## Revision History

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<thead>
<tr>
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1 INTRODUCTION

1.1 Purpose

This document describes the requirements for the SEWD project. These requirements relate directly to the functionalities, performances, interfaces, attributes, and constraints of the system.

SEWD is designed to allow novice web users the ability to create robust websites with little to no prior knowledge of web development. The application primarily consists of a graphical user interface which allows users to customize a website as they see fit. Media provided by the user is stored within a database, and website code is generated based upon their specifications.

1.2 Scope

This document provides a high level description of the requirements for SEWD. It provides the specifications for interacting with the system. The intended audience of this document is developers, testers, and end-users.

2 Definitions

2.1 Cascading Style Sheets (CSS)

A language used to describe the presentation of a document written in a markup language. The most common application is to style web pages written in HTML.

2.2 Hypertext Markup Language (HTML)

Predominant language used in the design and creation of web pages.

2.3 Hypertext Transfer Protocol (HTTP)

The networking protocol heavily utilized in communications between applications on the World Wide Web.

2.4 Internet

Publicly accessible network of interconnect computer networks.

2.5 JQuery

It is a fast and concise JavaScript library which simplifies the creation of animations, communications to server requests, document transversing and event handling.

2.6 Page Editor

A WYSIWYG editor within SEWD that can be pre-populated with a number of website templates and further customized via the positioning widget, navigation bars, and other media.
2.7 Resource
A resource is any file uploaded by the user for use on their website. Most commonly picture or video files, but files of unfamiliar format can be uploaded as well, and when used in the page editor, they appear as download links for that file.

2.8 User
A participant uses the SEWD software application.

2.9 Web Browser
It is software that allows user to view and interact with textual and graphical web sites on the World Wide Web.

2.10 Website Wizard
Asks the user to choose a website template and answer a series of simple questions, and then generates the foundation of a website for based on the options selected.

2.11 Widget
It is a web part that can be integrated into a webpage via the SEWD system.

2.12 World Wide Web (WWW)
It is a network of interconnected documents on the Internet.

3 Synopsis
SEWD is an application that provides even the most novice user with the tools necessary to create a robust, fully functional website. With little to no knowledge of web programming, design, or coding experience, SEWD empowers end users to generate detailed, intricate web pages to their specification. The intuitive GUI of SEWD gives users the option to easily choose from a number of prefabricated site templates including e-commerce, blog, photo gallery, intranets, etc. Users are able to modify color schemes, page layouts, and graphical logos as they see fit.

SEWD seamlessly integrates content from a common database hosted on SEWD’s very own web hosting platform. Such material can be stored and modified at the user’s digression, without ever exposing the nuts and bolts of ftp, database usage, or other complexities of web hosting. Users need only create an account via the SEWD application, and the sub-domain of their choosing under www.sewdweb.com is registered for them. Users can then deploy their content using the SEWD program, where it becomes instantly available for online viewing at their sub-domain. The user is free to forward (with masking) any personally owned domain to this address.
SEWD also includes a number of ‘widgets’, or customizable objects that can be placed on pages to further personalize the capabilities of the websites produced (see requirement 4.6). Everything from chat rooms, to polls, comments, hit boxes, news updates, uploads, progress bars, and shopping carts can be pulled into the SEWD page editor, situated in the location of the user’s discretion, and customized to suit the needs of the website.
4 Functional Requirements

The requirements below are each notated with a “Priority” that indicates the necessity of their implementation according to the follow table:

<table>
<thead>
<tr>
<th>Priority</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This is the highest priority level; Requirements labeled as such contain core functionality of SEWD and their implementation is absolutely necessary for the product to be considered complete.</td>
</tr>
<tr>
<td>2</td>
<td>Requirements of this priority contain desirable features to be implemented. Lack of fulfillment of these requirements does not create hazards to the overall functionality of the project.</td>
</tr>
<tr>
<td>3</td>
<td>Requirements listed with this priority include &quot;bonus features&quot;; These are features that additionally benefit SEWD functionality but are by no means necessary for its function.</td>
</tr>
<tr>
<td>4</td>
<td>This is the lowest priority level; Requirements labeled as such are likely left for the future development of the SEWD system.</td>
</tr>
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4.1 Graphical User Interface

4.1.1 Splash Screen

The splash screen appears while SEWD is loading. It contains the SEWD logo and author information. Once the program has loaded, the screen fades to the Login Screen.
4.1.2 Login Screen

The login screen prompts the user for their username and password credentials, and signs the user in to the SEWD application when given. This screen also provides a link to take the user through password recovery, as well as creation of accounts for new users.

4.1.2.1 Username Textbox
The user enters their sewdweb.com username here. Usernames can be 6-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.1.2.2 Password Textbox
The user enters their sewdweb.com password here. Passwords can be 8-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.1.2.3 Forgot Password Link
Link with the text “Forgot Password” brings the user to a page outside of the SEWD system, prompting them to answer their security question. Upon successfully answering the security question, their password is sent to their email account.

4.1.2.4 Sign In Button
Sign in button checks credentials and verifies user's identity. Upon success user is brought to the Open/New Screen (See Section 4.1.4).

4.1.2.5 Create New Account Button
Button containing text “Create an Account” takes the user to the Account Creation Screen (See Section 4.1.3).
4.1.3 Account Creation Screen

The account creation screen prompts the user for the information necessary to create and register an account within the SEWD system.

4.1.3.1 First Name Textbox
The user enters their first name here. This field can be between 0 and 25 characters in length. Alphanumeric characters are allowed in addition to the characters - _ , '.

4.1.3.2 Last Name Textbox
The user enters their last name here. This field can be between 0 and 25 characters in length. Alphanumeric characters are allowed in addition to the characters - _ , '.

4.1.3.3 Email Name Textbox
The user enters their email address for contact info and a confirmation email. This field has a maximum value of 50 characters in length.

4.1.3.4 Desired Login Name Textbox
The user specifies a unique login name. Usernames can be 6-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.1.3.5 Choose Password Textbox
The user enters a password for security. Passwords can be 6-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.
4.1.3.6  **Reenter Password Textbox**

The user enters the password once again to make sure they typed their desired password in correctly. Passwords can be 6-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.1.3.7  **Security Question Textbox**

The user enters a security question here to retrieve his password, in case he/she doesn’t remember it. The Security question may be up to 50 characters in length.

4.1.3.8  **Security Answer Textbox**

The user enters a security answer so that they can retrieve the password they forgot. The Security Answer may be up to 50 alphanumeric characters in length.

4.1.3.9  **Terms and Conditions**

The terms and conditions box states the rights of use and the terms of service.

4.1.3.10  **“I Agree” checkbox**

The user clicks the ‘agree’ box if they understand the terms and conditions.

4.1.3.11  **Captcha Word Verification**

This is used to stop spam and bots from creating logins. This security code needs to be typed in to continue.

4.1.3.12  **Create My Account Button**

The user lastly needs to click this button after all the other information is filled in to create their account. Upon successfully creating their account, the user is signed in and brought to the Open/New Screen. (See Section 4.1.4)
4.1.4 Open/New Screen

This screen allows the user to select from a previously created website project, or begin a new one.

4.1.4.1 Create New Website Button
A button labeled “Create New Website”. When pressed, the user is brought to the Website Wizard. (See Section 4.4)

4.1.4.2 Open Existing Website Scroll Box
This box labeled “Open Existing Website” allows the user to scroll through a list of websites previously created using SEWD. Clicking on any item loads that project and brings the user to the “Main Screen”.
4.1.5 Main Screen

The main screen allows the user to navigate amongst all of the major components that make up the SEWD application.

4.1.5.1 Edit Bars Button
A button labeled “Edit Bars”. Pressing the button brings the user to the Navigation Bar Editor. (See Section 4.2)

4.1.5.2 Edit Pages Button
A button labeled “Edit Pages”. Pressing the button brings the user to the Page Editor. (See Section 4.3)

4.1.5.3 Resource Manager Button
A button labeled “Resource Manager”. Pressing the button brings the user to the Resource Manager Screen. (See Section 4.1.6)

4.1.5.4 Preview Button
A button labeled “Preview”. Pressing the button brings load up a local copy of the website in the user’s default web browser.

4.1.5.5 Deploy Button
A button labeled “Deploy”. Pressing the button brings the user to the Deployment Screen. (See Section 4.1.7)
4.1.6 Resource Manager Screen

This screen displays the resources uploaded by the user, their file types, and the date they were uploaded. Users use this screen to upload additional resources for use within their website. In addition, the user enters the URL of a file they want to hotlink to their site.

When used within the page editor, files become a download link to that specific file, except for these specially handled types:

- .png, .gif, .jpg, .tif, and .bmp files display as graphics.
- .mov, .swf, .wmp, and .avi files display within a videos player
- .mp3, and .wav files display within a music player.

### 4.1.6.1 Scroll Box
Scroll box displays the name, file type, and date imported of media that’s been uploaded to this SEWD project.

### 4.1.6.2 Import Button
This button allows the user to browse their computer for media to import into this SEWD project.

### 4.1.6.3 Edit Button
Allows the user to edit the resource.
4.1.6.4 **Back Button**
This button brings the user back to the previous screen.

4.1.7 **Deployment Screen**
Display a progress bar as the changes the user has made to their project are committed to the hosting server. Upon successful deployment, users are returned to the Main Screen. (See Section 4.1.5)

4.1.8 **Widget Editor Screen**
This is where the user customizes options specific to the selected widget, if the widget is customizable. There is a unique screen for each type of customizable widget in SEWD. See [Widgets](#).
4.2 Navigation Bar Editor Screen

Here the user is able to customize what type of navigation bars they want on their website, how they should appear, and what links they provide.

4.2.1 Name Drop Down
Allows users switch between multiple Navigation Bars.

4.2.2 Settings Button
Allows Users maintain Navigation Bars.

4.2.3 Horizontal/Vertical Drop Down
Users select if the bar is oriented vertically or horizontally.

4.2.4 Width/Height Slider
User determines the width and height of the bar.
4.2.5 **Preview Button**
User previews the bar in a browser.

4.2.6 **Button/Page Links Table**
User assigns each SEWD page to each button in the bar.

4.2.7 **Add/Delete Button**
User adds or deletes a button to the bar.

4.2.8 **Sub Field**
Allows for a button could be made as a sub-link under another button.

4.2.9 **Background Color**
User selects a background color for the bar.

4.2.10 **Background Picture**
User selects a background picture for the bar.

4.2.11 **Background layout**
User may stretch/tile/center the picture for the bar.

4.2.12 **Button Font**
User determines the font of the button.

4.2.13 **Mouse Over Font Button**
User determines the font change when mouse gets over.

4.2.14 **SEWD Effect Drop Down**
Allows users to apply SEWD JQuery effect to the selected buttons.

4.2.15 **Display Area**
A view of the current navigation bar. Users can manipulate the bar here, allowing them to resize and reposition the bar’s buttons.

4.2.16 **Save Button**
Saves changes made to the navigation bar.

4.2.17 **Exit Button**
Goes back to the main screen. (See Section 4.1.5)
4.3 Editor Screen

Figure 4.3.a – this image is of the edit window. Users can drag and drop widgets, resources, and a number of preset tools for formatting the appearance of text/tables/widgets/resources/ and other graphics on their pages.

4.3.1 Source – (Priority 1)
The source switches the user between GUI and source view.

4.3.2 Save – (Priority 1)
The user clicks this button to save the webpage being edited.

4.3.3 New – (Priority 1)
The user clicks this button to create a new webpage.

4.3.4 Preview – (Priority 1)
The user clicks this button to preview the webpage in a web browser.

4.3.5 Template list – (Priority 1)
4.3.5.1 The user clicks this button to view a list of templates.
4.3.5.2 The user clicks on a template to place it onto the edit area.
4.3.5.3 The user checks the “Replace content” checkbox to replace the entire page with the selected template.
4.3.5.4 The user selects cancel to quit adding a template.

4.3.6 Cut – (Priority 1)
The user selects text or an object and clicks this button to delete it from edit area.

4.3.7 Copy – (Priority 1)
The user selects text or an object and clicks this button to copy.

4.3.8 Paste – (Priority 1)
4.3.8.1 The user clicks and places the cursor at their desired location or highlights text or an object.
4.3.8.2 The user clicks this button to insert text or object at the position of the cursor. Any highlighted text is replaced by the pasted text or object.

4.3.9 Paste without links – (Priority 1)
This button has the same capability as requirement 4.3.8. However, this button removes all links from the text being pasted.

4.3.10 Paste from word – (Priority 1)
4.3.10.1 This button has the same capability as requirement 4.3.8. However, this button pastes the text from the clipboard of word document.
4.3.10.2 If it finds no text, the user is prompted to paste text in a text field and click “OK”; otherwise, click “cancel” to cancel this operation.

4.3.11 Print – (Priority 1)
The user clicks this button to print the actual view of the webpage the user is working on.

4.3.12 Check Spelling – (Priority 3)
4.3.12.1 The user clicks this button to check the spellings of the page.
4.3.12.2 All words on the webpage are checked for mistakes.
4.3.12.3 A list of wrong words is displayed to the user, as well as, a listing of possible correct words.
4.3.12.4 The user clicks on the correct word and corrects the wrong word.
4.3.12.5 To cancel correcting, the user clicks cancel.
4.3.12.6 If the user does not find the correctly spelled word from the list, he/she must exit check spelling, and replace the wrong word with a correctly spelled word.

4.3.13 Check Spelling as typing – (Priority 3)
The user clicks this button to check the spellings while the user works on the webpage.

4.3.14 Undo Button – (Priority 1)
4.3.14.1 The user clicks this button to undo the last change made to the webpage.
4.3.14.2 This button is not clickable if the user has not made any changes yet.

4.3.15 Redo Button – (Priority 1)
4.3.15.1 The user clicks this button to redo the last change that was undone.
4.3.15.2 This button is only clickable when the user clicks the undo button.

4.3.16 Find Button – (Priority 2)
4.3.16.1 The user clicks this button to find text in the webpage.
4.3.16.2 The user is asked to enter text to find in a text field.
4.3.16.3 The text field is limited to 30 characters.
4.3.16.4 The user checks the “match case” checkbox to find text by exact case match.
4.3.16.5 The user clicks “Find” button. If a match is found, the matching text is highlighted. The user continues to press find to cycle through all the matches.
4.3.16.6 The user is given a message box if matching text is not found.
4.3.16.7 The user presses “Cancel” button to close the Find window.
4.3.16.8 The user presses the Replace tab to view the find and replace popup. (see requirement 4.3.17)

4.3.17 Replace Button – (Priority 1)
4.3.17.1 The user clicks this button to find and replace text in the webpage.
4.3.17.2 The user follows requirements 4.3.16.2 to 4.3.16.7 to find the text.
4.3.17.3 The user is given additional text field for “Replace With” option.
4.3.17.4 The text field is limited to 30 characters.
4.3.17.5 The user clicks replace button to find matching text, and then presses replace button again to replace the found text with the text supplied in replace with text field. If no text was supplied, then found text is deleted.
4.3.17.6 The user clicks “Replace All” button to replace all text at once.
4.3.17.7 The user is given a message box if matching text is not found.
4.3.17.8 The user presses “Cancel” button to close the Find window.
4.3.17.9 The user presses the Find tab to view the find popup. (see requirement 4.3.16)

4.3.18 Select All – (Priority 1)
The user clicks this button to select all text in the edit area.

4.3.19 Remove Formatting – (Priority 1)
The user selects text and clicks this button to remove formatting of the selected text.

4.3.20 Form – (Priority 2)
4.3.20.1 The user clicks this button to input form into the edit area.
4.3.20.2 The user is given a popup asking for the id, name, action, encoding and target of the form. All fields are optional.
4.3.20.3 The user clicks OK button to add the form.
4.3.20.4 The user presses cancel to close the window.
4.3.20.5 All fields have no limit to length and accept all characters.

4.3.21 Check box – (Priority 1)
4.3.21.1 The user clicks this button to input a check box onto the edit area.
4.3.21.2 The user is displayed a wizard.
4.3.21.3 The user has the option of entering the checkbox name and value in text boxes.
4.3.21.4 The name and value have no limit to length.
4.3.21.5 The text boxes accept all characters.
4.3.21.6 The user selects the “Selected” check box to have the check box selected on load.
4.3.21.7 Then the user clicks ok to add the checkbox onto the edit screen.
4.3.21.8 The user clicks cancel to cancel adding a check box.

4.3.22 Radio button – (Priority 1)
4.3.22.1 The user clicks this button to input a radio button onto the edit area.
4.3.22.2 The user is displayed a wizard.
4.3.22.3 The user has the option of entering the radio button name and value in text boxes.
4.3.22.4 The name and value have no limit to length.
4.3.22.5 The text boxes accept all characters.
4.3.22.6 The user selects the “Selected” check box to have the radio button selected on load.
4.3.22.7 Then the user clicks ok to add the radio button onto the edit screen.
4.3.22.8 The user clicks cancel to cancel adding a radio button.

4.3.23 Textbox – (Priority 1)
4.3.23.1 The user clicks this button to input a text box onto the edit area.
4.3.23.2 The user is displayed a wizard.
4.3.23.3 The user enters optional text box name and value.
4.3.23.4 The name and value have no limit to length and accept all characters.
4.3.23.5 The user enters optional text box size and max length.
4.3.23.6 The size and max length fields must be integers. Any other input gets an error message.
4.3.23.7 The user selects either text or password as the type of text box.
4.3.23.8 Then the user clicks ok to add the text box onto the edit screen.
4.3.23.9 The user clicks cancel to cancel adding a text box.

4.3.24 Text area— (Priority 1)
4.3.24.1 The user clicks this button to input a text box onto the edit area.
4.3.24.2 The user is displayed a wizard.
4.3.24.3 The user enters optional text area name.
4.3.24.4 The name has no limit to length and accepts all characters.
4.3.24.5 The user enters optional text area column and row size.
4.3.24.6 The column and row size fields must be integers. Any other input gets an error message.
4.3.24.7 Then the user clicks ok to add the text area onto the edit screen.
4.3.24.8 The user clicks cancel to cancel adding a text area.

4.3.25 Selection field— (Priority 1)
4.3.25.1 The user clicks this button to input a selection field onto the edit area.
4.3.25.2 The user is displayed a wizard.
4.3.25.3 The user enters optional name for the selection field, which has no limit to length and accepts all characters.
4.3.25.4 The user enters optional size, which decides how many selections are displayed at once.
4.3.25.5 The size field accepts integers. Any other input gets an error message.
4.3.25.6 The user then enters the available options for the selection field.
4.3.25.7 For each option, the user enters the text and value, which have no limit to length and accepts all characters.
4.3.25.8 The user clicks add button to add the option to the list.
4.3.25.9 To modify an added selection, the user selects the option, makes changes to the text and value field, and clicks modify.
4.3.25.10 The user changes the order of the options by clicking the up and down buttons
4.3.25.11 The user deletes an option by selecting an option and clicking the delete button.
4.3.25.12 The user selects an option and clicks the “set as selected” button to set the option to selected mode on page load.
4.3.25.13 The user selects “allow multiple options” to allow the ability for multiple fields to be selected.
4.3.25.14 Then the user clicks ok to add the selection field onto the edit screen.
4.3.25.15 The user clicks cancel to cancel adding a selection field.

4.3.26 Button— (Priority 1)
4.3.26.1 The user clicks this button to input a button onto the edit area.
4.3.26.2 The user is displayed a wizard.
4.3.26.3 The user has the option of entering the button name and button values in textboxes.
4.3.26.4 The name and value have no limit to length.
4.3.26.5 The textboxes accept all characters.
4.3.26.6 The user selects button, submit or reset as the type of the button from a dropdown list.
4.3.26.7 Then the user clicks ok to add the button onto the edit screen.
4.3.26.8 The user clicks cancel to cancel adding a button.

4.3.27 Image Button – (Priority 1)
4.3.27.1 The user clicks this button to input an image button onto the edit area.
4.3.27.2 The user is displayed a wizard.
4.3.27.3 The user enters the URL of the image. The URL accepts alphanumerical and the characters ! @ # $ ^ & and * and has no limit to length.
4.3.27.4 The user enters optional alternate text, which has no limit to length and accepts all characters.
4.3.27.5 The user then enters the length, width, border size, horizontal spacing, and the vertical spacing. All of these fields have no limit to length and accept only integer values. All values are in pixels.
4.3.27.6 The user then selects the alignment of the image. There are three options: "not set", "right", and "left".
4.3.27.7 Then the user clicks ok to add the image button onto the edit screen.
4.3.27.8 The user clicks cancel to cancel adding an image button.

4.3.28 Hidden Field – (Priority 1)
4.3.28.1 The user clicks this button to input a hidden field onto the edit area.
4.3.28.2 The user is displayed a wizard.
4.3.28.3 The user has the option of entering the name and value, which have no limit to length and accept all characters.
4.3.28.4 The user selects button, submit or reset as the type of the button from a dropdown list.
4.3.28.5 Then the user clicks ok to add the button onto the edit screen.
4.3.28.6 The user clicks cancel to cancel adding a button.

4.3.29 Bold – (Priority 1)
The user selects text and clicks this button to bold the text.

4.3.30 Italic – (Priority 1)
The user selects text and clicks this button to italicize the text.

4.3.31 Underline – (Priority 1)
The user selects text and clicks this button to underline the text.
4.3.32 **Strike through** – (Priority 1)
The user selects text and clicks this button to strike a line through the text.

4.3.33 **Subscript** – (Priority 1)
The user selects text and clicks this button to make the text be subscripted.

4.3.34 **Superscript** – (Priority 1)
The user selects text and clicks this button to make the text be superscripted.

4.3.35 **Numbered list** – (Priority 1)
The user clicks this button to add or remove numbered list formatting.

4.3.36 **Bulleted list** – (Priority 1)
The user clicks this button to add or remove bulleted list formatting.

4.3.37 **Decrease indentation** – (Priority 1)
The user clicks this button to remove indentation to a selected line.

4.3.38 **Increase indentation** – (Priority 1)
The user clicks this button to add indentation to a selected line.

4.3.39 **Block quote** – (Priority 1)
The user selects text and clicks this button to block quote format the selected text.

4.3.40 **Div Container** – (Priority 1)
The user selects text and clicks this button to add a div tag around the text.

4.3.41 **Center** – (Priority 1)
The user selects text or an object and clicks this button to align the text or object to the center.

4.3.42 **Right** – (Priority 1)
The user selects text or an object and clicks this button to right align the text or object.

4.3.43 **Left** – (Priority 1)
The user selects text or an object and clicks this button to left align the text or object.

4.3.44 **Block justify** – (Priority 1)
The user selects text and clicks this button to block justify the text.
4.3.45 Text direction left to right button – (Priority 1)
The user clicks this button to align the text coming from left to right. This disables the text direction right to left button.

4.3.46 Text direction right to left button – (Priority 1)
The user clicks this button to align the text coming from right to left. This disables the text direction left to right button.

4.3.47 Link – (Priority 1)
4.3.47.1 The user selects text and clicks this button to add a link to the selected text.
4.3.47.2 The user is displayed a wizard.
4.3.47.3 The user selects the link type from a drop down list. The link type can either be URL or Link to anchor.
4.3.47.4 The user selects URL as link type
4.3.47.4.1 The user selects the protocol from a drop down list. The available options are “http://”, “https://”, “ftp://”, “news://”, or “other”.
4.3.47.4.2 The user then enters a URL. The URL accepts alphanumerical and the characters ! @ # $ ^ & and * and has no limit to length.
4.3.47.5 The user selects “link to anchor in text” as link type. The user then selects the anchor from a drop down list. If no anchor is created, the dropdown is not displayed, and in its place message of no anchor is displayed.
4.3.47.6 The user clicks ok to add the link to the text.
4.3.47.7 The user selects cancel to quit adding a link.

4.3.48 Unlink – (Priority 1)
4.3.48.1 The user selects linked text and clicks this button to remove the link.

4.3.49 Anchor – (Priority 1)
4.3.49.1 The user clicks this button to add an anchor onto the edit area.
4.3.49.2 The user is given a wizard.
4.3.49.3 The user enters anchor name.
4.3.49.4 The user clicks OK to add anchor.
4.3.49.5 The user clicks cancel to quit adding anchor.

4.3.50 Image adder – (Priority 1)
4.3.50.1 Image adder is used to add an image onto the page.
4.3.50.2 The user clicks on the button assigned to image.
4.3.50.3 The image wizard is displayed (see figure 4.3.50.a below).
4.3.50.4 The user selects an image from their uploaded images, or checks the use outside resource checkbox and gives URL of the outside resource.
4.3.50.5 The user enters an “Alternate Text”, which is shown when the image is not properly displayed. The alternate text is limited to 40 characters. The user can select the radio button to not use alternate text.

4.3.50.6 The user enters optional tooltip to display information when mouse is dragged over the image. The tooltip is limited to 40 characters.

4.3.50.7 The user selects dimensions button to set the height and width of the image. By default the “use actual size” button is checked. The user checks “use custom size” to set the image size. The user enters height and width. The dimensions are either given in percentage or pixel size.

4.3.50.8 The user selects appearance button to set the appearance of the image. The user selects the alignment of the image from a dropdown list, enters the border width in pixels, enters the right and left spacing width in pixels, and enters the top and bottom spacing in pixels. The user is only allowed to input numbers into the width text fields.

4.3.50.9 The user selects the link button to enter a link page for the image. The user is asked to enter the URL of the link or select a page from their created pages.

4.3.50.10 The user clicks Ok to add the image at the point of the curser.

4.3.50.11 The user clicks cancel to quit adding the image.

4.3.50.12 The user clicks Help to go to the help file of SEWD system.

![Image Properties](image.png)

Figure 4.3.50.a this is what comes up after the user clicks the image add button

4.3.51 Flash Adder – (Priority 1)

4.3.51.1 The user clicks this button to input a flash file to the webpage.

4.3.51.2 The user is displayed a wizard.
4.3.51.3 The user enters the URL of the flash file. The URL accepts alphanumerical and the characters ! @ # $ ^ & and * and has no limit to length.
4.3.51.4 The user then enters the length, width, horizontal spacing, and the vertical spacing. All of these fields have no limit to length and accept only integer values. All values are in pixels.
4.3.51.5 Then the user clicks ok to add the image button onto the edit screen.
4.3.51.6 The user clicks cancel to cancel adding an image button.

4.3.52 Table adder – (Priority 1)
4.3.52.1 The user clicks this button to add a table to the edit area.
4.3.52.2 The user is given a wizard.
4.3.52.3 The user enters row and column numbers. These fields require integer values, and have no limit to length. An error is given if any other characters are entered.
4.3.52.4 The user enters the width and height of the table. These fields require integer values, and have no limit to length. An error is given if any other characters are entered. The height is entered in pixels, while the width is changeable between pixel and percentage from a drop down box next to width field.
4.3.52.5 The user selects headers from a drop down list. The user has four choices: “none”, “first row”, “first column” or “both first row and first column”.
4.3.52.6 The user enters cell padding, cell spacing and border size. These fields require integer values, and have no limit to length. An error is given if any other characters are entered. These values are also considered to be in pixels.
4.3.52.7 The user then selects the alignment of the table from a dropdown list. The user can set the alignment to right, left, center or not set. If not set is chosen, then the default alignment is chosen, which is left aligned.
4.3.52.8 The user then enter a caption (or table title) and a summary. These fields allow all characters and have no limit to length.
4.3.52.9 The user clicks ok to enter the table into the edit area.
4.3.52.10 The user clicks cancel to quit adding the table.

Figure 4.3.52.a

4.3.53 Insert Horizontal Line – (Priority 1)
The user clicks on this button to insert a horizontal line.

4.3.54 Insert Smiley – (Priority 1)
4.3.54.1 The user clicks on this button to add a smiley face.
4.3.54.2 Upon clicking, the user is shown a list of smiley faces.
4.3.54.3 The user clicks a smiley to insert onto the webpage.
4.3.54.4 The user clicks cancel to quit adding a smiley.

4.3.55 Insert Special Character – (Priority 1)
4.3.55.1 The user clicks on this button to add a special character.
4.3.55.2 Upon clicking, the user is shown a list of special characters.
4.3.55.3 The user clicks a special character to insert onto the webpage.
4.3.55.4 The user clicks cancel to quit adding a special character.

4.3.56 Insert Printing Page Break – (Priority 1)
The user clicks on this button to insert a page break for printing.

4.3.57 Formatting Styles – (Priority 1)
The user selects from the drop down list to set a style for the text.

4.3.58 Heading – (Priority 1)
The user selects from the drop down list to set or change the heading of a paragraph.

4.3.59 Font changer – (Priority 1)
The user selects text and selects a font from the drop down list.

4.3.60 Text Size Changer – (Priority 1)
The user selects text and selects the text size from the drop down list.

4.3.61 Text Color Changer – (Priority 1)
The user selects text and clicks this button. A color picker is displayed, from which the user selects the text color.

4.3.62 Text Highlighter – (Priority 1)
The user selects text and clicks this button to highlight the text.

4.3.63 Maximize – (Priority 3)
The user clicks this button to maximize the edit window.

4.3.64 Show Blocks – (Priority 3)
The user clicks this button to see the element tags for each item in edit area.
4.3.65 Help – (Priority 3)
The user clicks this button to see the help menu.

4.4 Website Wizard
To simplify the website creation process, SEWD possesses a creation wizard that walks the end user through choosing the perfect template for their website. Through the website wizard, users begin to customize and tailor their website to fit all of their needs.

4.4.1 Name and Domain Creation – Priority 1
As the website wizard begins, users are prompted to enter in the basic information detailing their website. This includes the name of the website, the name of the author, as well as the domain that the user is going to utilize. This information is inserted into the header information for the website.
4.4.1.1 Website Display Name Textbox
The user must enter the desired website name to display on the page. The display name is up to 40 alphanumeric and any of the following characters: ! @ # $ % ^ & and *.

4.4.1.2 Author’s Name Textbox
The user may enter the author of the website. This information is stored in the header portion of the website. If the user does not enter their username, it is kept as the default “Anonymous”. The author name is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.1.3 Domain Name Textbox
The user must enter the desired domain name for their website. The domain name is limited to 5-40 alphanumeric characters.

4.4.1.4 Verify Domain Name Textbox
The user must reenter the desired domain name for their website. This field is limited to 5-40 alphanumeric characters. It also must match the domain name textbox.

4.4.1.5 Next Button
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.1.6 Back Button (grayed out)
The user is presented with a grayed out ‘Back’ button. Because this is the first step of the wizard process, if a user wishes to cease creating a website, they can simply select the ‘Cancel’ button.

4.4.1.7 Cancel Button
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.2 Navigation Selection – Priority 1
In the second step of the website wizard, users are prompted to choose what style of navigation bars they wish to have on their website. Prevalent through the entire domain, the selection of navigation bars allows a user to customize how visitors to their website will traverse through their pages.
**4.4.2.1 Navigation Selection**
The user is given an option of several different navigation choices. To select a navigation style, the user clicks on the Radio button next their desired choice. The choices consist of ‘Left Hand Navigation’, ‘Right Hand Navigation’ and ‘Horizontal’ navigation bars.

**4.4.2.2 Next Button**
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

**4.4.2.3 Back Button**
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.
4.4.2.4  **Cancel Button**
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.3  **Color Scheme Selection and Customization**  – Priority 1
In the third step of the website wizard, users are asked to select the base color scheme to their website. These colors are utilized for the default color palette for the backgrounds and fonts deployed through the newly created website.
COLOR SCHEME

Please select a color scheme option below to customize the appearance of your website.

- Color 1
- Color 2
- Color 3
- Color 4
- Color 5
- Color 6
- Color 7

Customize...

Back   Next   Cancel
4.4.3.1 Color Scheme Selection
The user is presented with a variety of preset color choices of which they can make their selection from. By selecting the radio button, the user can choose which color scheme they wish to use.

4.4.3.2 Customize Button
The user is given the option to select ‘Customize’. This allows the user to fine-tune and fully customize the colors utilized throughout their website.

4.4.3.3 Next Button
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.3.4 Back Button
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.3.5 Cancel Button
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.4 Logo Creation and Customization
In addition to selecting the color schemes, users are also prompted to choose from a number of custom generated logos. These are logos generated from the website name entered in step 1 of the wizard.
LOGO CREATION

Please select an option below to create or upload your Site Logo.

Select one of the generated Logos below....

- Logo1
  
  Sample Name
  "Your Tagline"

- Logo2
  
  Sample Name
  "Your Tagline"

- Logo3
  
  Sample Name
  "Your Tagline"

Or, you may elect to upload your own logo.

Upload your Logo... Choose File no file selected

Back  Next  Cancel
4.4.4.1 **Logo Selection**
The user is presented with a variety of preset logo choices of which they can make their selection from. By selecting the radio button, the user can choose which logo they wish to use throughout their site.

4.4.4.2 **Upload Button**
The user is allowed the option to upload their own logo to be utilized throughout their website. This file must be a JPG, PNG, or GIF file. The preferred size is no larger than 140 pixels by 140 pixels.

4.4.4.3 **Next Button**
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.4.4 **Back Button**
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.4.5 **Cancel Button**
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.5 **Font Selection and Customization**
During the next stage of the wizard, users are allowed the option to change the default text that is utilized throughout their website.
4.4.5.1 Title Text
Commonly referred to as Header1, the user is allowed to customize and set their default title text. The domain name is limited to 40 alphanumeric characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.5.2 Sub-header Text
Commonly referred to as Header2, the user is allowed to customize and set their default title text. The domain name is limited to 60 alphanumeric characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.
4.4.5.3 **Body Text**
The user is allowed to customize and set their default title text. This field is limited to 40 alphanumeric characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.5.4 **Next Button**
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.5.5 **Back Button**
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.5.6 **Cancel Button**
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.6 **Template Selection** – Priority 1
The SEWD system offers a variety of templates to be utilized by the user. In the next stage of the website wizard, users are prompted to select the basic functionality of their website. Examples of this include e-Commerce, Blogs, etc.

4.2.6.1 **Blog Template Wizard**
Upon selecting a Blog template, users are prompted to fill out the necessary information to get their blog website started.
4.4.6.1.1  **Title Textbox**  
The user must enter the desired blog name that is displayed on the page. This field is limited to 40 alphanumeric and ! @ # $ % ^ & and * characters.

4.4.6.1.2  **Description Text Field**  
Users are given the option to enter a description of the blog. This is suggested to be the overview of topics covered throughout the blog’s lifetime. This is an optional field. The description field is limited to 120 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.
4.4.6.1.3  **Comment Choice**
Users are given the option on whether or not they would like comments to be enabled for their blog.

4.4.6.1.4  **Rating Choice**
Users are given the option on whether or not they would like to turn on ratings for visitors to rate their blog posts.

4.4.6.1.5  **RSS Feeds**
Users are given the opportunity on whether or not to automatically generate the necessary criteria for an RSS feed of their blog entries.

4.4.6.1.6  **Social Links**
Users are given the opportunity to generate links to popular social websites, like Facebook and Twitter. Upon completion of the necessary information, links are automatically generated on the blog for visitors to follow.

4.4.6.1.7  **Next Button**
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.6.1.8  **Back Button**
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.6.1.9  **Cancel Button**
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.6.2  **e-Commerce Template Wizard**
Upon selecting an e-Commerce template, users are prompted to fill out the necessary information to get their website started.
The user may enter the desired name that is displayed on the page. This option is available to users whom may want to name their e-Commerce portions of their site.
something other than the main website/domain name. The title is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.2.2  Description Text Field
Users are given the option to enter a description of the company. This is an optional field. The description is limited to 200 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.2.3  Item Creation
Users are prompted to begin entering in their merchandise.

4.4.6.2.3.1  Item Name Textbox
Users are prompted to enter in the name of the item into the text field. Item name is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.2.3.2  Item Description Textbox
Users are prompted to enter in the description of the item into the text field. Item description is limited to 200 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.2.3.3  Item Price Textbox
Users are asked to provide a price for the item. The item price is limited to 20 characters. Numeric and decimal characters are allowed.

4.4.6.2.3.4  Item Image Uploader
Users are asked to provide a picture file for the item. This file should be a JPG, PNG, or GIF image.

4.4.6.2.3.5  Option for Ratings and Comments
Users are given the option to allow patrons to rate or comment on particular items in their inventory.

4.4.6.2.3.6  Next Button
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.6.2.3.7  Back Button
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.6.2.3.8  Cancel Button
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.
4.4.6.3  Intranet Template
Upon selecting an Intranet template, users are prompted to fill out the necessary information to get their website started.

4.4.6.3.1  Title Textbox
The user may enter the desired name that is displayed on the page. This option is available to users whom may want to name their intranet site something other than the main website/domain name. The title is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.


4.4.6.3.2 Description Text Field
Users are given the option to enter a description of the company. This is an optional field. The description is limited to 200 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.3.3 Subpage Creator Checkboxes
Users are given the option to choose from various types of subpages to be automatically generated with the creation of their intranet. These options include an announcements page, a lists page, and a file repository. By checking the box next to each option, the user’s intranet is automatically generated with these pages in place.

4.4.6.4 Photo Gallery Template
Upon selecting a photo gallery template, users are prompted to fill out the necessary information to get their website started.
4.4.6.4.1 Title Textbox
The user may enter the desired name that is displayed on the page. This option is available to users whom may want to name their intranet site something other than the main website/domain name. The title is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.4.2 Photo Creation
Users are prompted to begin entering in their photographs.
4.4.6.4.2.1 Photo Name Textbox
Users are prompted to enter in the name of the photo into the text field. The photo name is limited to 40 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.4.2.2 Photo Caption Textbox
Users are prompted to enter in the caption of the photo into the text field. The caption text is limited to 100 characters. All alphanumeric and ! @ # $ % ^ & and * characters are allowed.

4.4.6.4.2.3 Photo Image Uploader
Users are asked to provide their picture file. This file should be a JPG, PNG, or GIF image.

4.4.6.4.2.4 Option for Ratings and Comments
Users are given the option to allow patrons to rate or comment on particular photos in their gallery.

4.4.6.4.2.5 Next Button
Upon completion of all of the required portions of this form, the user may select the ‘Next’ button to continue on with the creation process.

4.4.6.4.2.6 Back Button
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.6.4.2.7 Cancel Button
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.7 Advanced Functionality – Priority 2
In the final step of the website wizard, users are given the opportunity to supply the necessary information for various advanced tools, like Google Analytics and Google AdSense. Users are asked to provide the Analytics/AdSense code for their website. A link to the Google Analytics/AdSense sign-up page is also provided for users who may have not had experience with this third-party product.
4.4.7.1 Google Analytics Code Textbox
Users are asked to provide their code for Google Analytics. The entry in this field is utilized to setup the background information necessary to enable Google Analytics. There is no limit to the length of code.

4.4.7.2 Google AdSense Code Textbox
Users are asked to provide their code for Google AdSense. The entry in this field is utilized to setup the background information necessary to enable Google AdSense. There is no limit to the length of code.

4.4.7.3 Next Button
Upon completion of all of the required portions of this form, the user may select the 'Next' button to continue on with the creation process.
4.4.7.4 Back Button
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.4.7.5 Cancel Button
The user is presented with a ‘Cancel’ button. This halts the wizard creation process, and returns the user to the location prior to entering the wizard.

4.4.8 Wizard Completion and Website Generation – Priority 1
Following the completion of the previous stages of the wizard, the customized template is created by the SEWD system, and the user can begin to make changes and customizations to it, as they see fit.

Users may select ‘Finish’ to complete the wizard and generate their website.
4.2.8.2 Back Button
The user is presented with a ‘Back’ button. This button allows them to return to the previous step of the wizard.

4.5 HTML/CSS Generation

4.5.1 Design Framework
The initial layout of the website produced for the user is produced using HTML. Depending on the decisions made by the user, a corresponding framework is produced by the SEWD system.

4.5.2 Corresponding Style Sheets (Priority 1)
The style of the entire web sites is created and stored in CSS files. These style sheets create a consistent, uniform representation of a web site and all of its subsequent subpages, as produced within the SEWD system. Depending on the decisions made by a user in the creation process of a website, much of the style requirements are encapsulated and represented in the produced cascading style sheets.

4.5.3 Defined Template Types (Priority 1)
The SEWD system offers a variety of templates to be utilized by the user. In the second stage of the website wizard, users are prompted to select the basic functionality of their website. Examples of this include e-Commerce, Blogs, etc.

As a template is selected, the core backbone of the website is generated by the SEWD system and made available for further customization.
SEWD offers a ‘web log’ or blog style template. This template enables the user to store posts or entries, displayed in reverse-chronological order, on their website. The user is able to actively maintain their blog with text and other media, like graphics or videos. In addition, other individuals have the capability to leave comments for the blog entries.

4.5.3.2 E-Commerce
SEWD offers an e-Commerce or electronic business style of webpage. This template is designed to promote the buying and selling of products right from the website. Through the use of widgets and other mechanisms, the SEWD system strives to simplify what may otherwise be a tricky task.

### 4.5.3.3 Intranet

SEWD offers a third template option for Intranets. Intranets, for SEWD’s sense, represent an internal website for an organization. With the focus on communication and collaboration, SEWD’s intranet template offers several subpages. These subpages include an “Announcements” page, or blog-like page, where events and posts can be made. A “Document Repository” is also included to share documents and files between users. Lastly, a “Links” page allows users to post hyperlinks and descriptions of important websites to be accessed from this one central location.
4.5.3.4 Photo Gallery

SEWD's fourth template style is a Photo Gallery. This template is designed to store and display user-generated media (photographs) on the website. Through the use of pre-set widgets into the template, users can quickly and effectively upload their photos to be displayed.

4.5.4 Tailored Website Navigation– (Priority 1)
Through the guided process of SEWD's website production, users are given the opportunity to customize how the navigation bars of their website are displayed. This includes horizontal and vertical navigation bars able to be placed on either the right or left hand side of the screen.

4.5.5 Customizable Website Color Schemes– (Priority 1)
SEWD allows the user to select from a wide range of preset base colors that helps personalize the resulting website. Throughout the wizard's process, users are given a multitude of preset color schemes to choose from.

4.5.6 Customized Headers and Footers – (Priority 1)
SEWD offers the user full control over the content of the header and footers shown across all produced web pages.

4.5.7 Generated Logos– (Priority 3)
SEWD allows the user to generate customized logos and graphics for use within their website.

4.6 “Widget” Requirements

4.6.1 Widget Properties list– (Priority 1)
4.6.1.1 Each widget has a Widget Properties item, which is necessary to allow the user options to customize the widgets.
4.6.1.2 The user right clicks the widget needing customization and selects Widget Properties
4.6.1.3 The Widget Properties list is displayed.
4.6.1.4 The user is given a set of list of option they can select to change or edit. The options vary depending on the type of widgets.
4.6.1.5 The user makes their changes. The fields accept alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.
4.6.1.6 The widget GUI is changed according to the user's preferences.

4.6.2 Photo Gallery– (Priority 1)
4.6.2.1 This widget is used to create a Gallery of Images.
4.6.2.2 The user clicks on the button assigned to add photo gallery.
4.6.2.3 A wizard is then displayed.
4.6.2.4 The user selects images from a list that he/she has uploaded to the SEWD database.
4.6.2.5 The user selects the “use outside resource” checkbox, if not using an uploaded image.
4.6.2.6 The user enters an URL to an outside resource. The user checks the “upload resource to database” checkbox to upload the outside resource to the database; otherwise, the gallery only points to the URL provided.
4.6.2.7 The user uploads new images if needed image is on the user’s computer.
4.6.2.8 The user selects the alignment of the gallery from a dropdown list labeled “alignment”
4.6.2.9 The user enters the border, width and height of the thumbnails in pixels. The user is only allowed to input integer values into the text fields.
4.6.2.10 The user selects “show larger image display” checkbox to show the selected image by website visitors in a bigger view.

4.6.2.11 The user enters the border, width and height of the “larger image display” in pixels. The user is only allowed to input integer values into the text fields.

4.6.2.12 The photo gallery shown below (Figure 4.6.2.a) allows the user to navigate through the gallery from forward and backward arrows. For this gallery the user has chosen not to show the bigger display.

4.6.2.13 The user chooses the alignment of larger display from a drop down list.

4.6.2.14 The user then selects the mouse event from a dropdown list on which the larger display is to be shown.

4.6.2.15 The user changes the layout from Widget Property list (see requirement 4.6.1)

![Figure 4.6.2.a – Example of a finished photo Gallery without the larger image display](image)

4.6.3 Forum – (Priority 2)

4.6.3.1 This widget is used to create a page for a forum or a blog.

4.6.3.2 The user clicks on the button assigned to adding a blog.

4.6.3.3 Forum creation wizard is displayed.

4.6.3.4 The user inputs the forum title. The field for the title is limited to 50 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.6.3.5 The user inputs additional details or a link to a page introducing the forum. There is no limit to the length of the additional detail. It accepts all characters.

4.6.3.6 The user is given a list of pre-defined forum layouts.

4.6.3.7 The user selects a layout.

4.6.3.8 The user clicks OK to render the forum onto the edit area.

4.6.3.9 The forum is rendered.

4.6.3.10 The user changes the layout and any other details from the Widget Property list (see requirement 4.6.1)

4.6.4 Progress Bar – (Priority 1)

4.6.4.1 The user selects progress bar to show a page loading image.

4.6.4.2 A default progress bar is displayed, and a wizard is shown.
4.6.4.3 The user enters the progress bar limit in ending number text field. This field only allows numerical input any other characters throw an error. There is no limit to number of characters.

4.6.4.4 The user enters the countdown code in the code view of the webpage and entering code. The user goes to the code view by right click and selecting code view.

4.6.4.5 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.5 **Toolbar**— *(Priority 3)*

4.6.5.1 The user drags and drops this widget onto the edit area

4.6.5.2 A default toolbar with open, new, save, print, undo, redo buttons is displayed.

4.6.5.3 The user right clicks and chooses add or delete to add a button or to delete a button.

4.6.5.4 The user must right click and click “add code” to add code for each button in the toolbar.

4.6.5.5 The user adds or removes new buttons from the widget property list (see requirement 4.6.1).

4.6.6 **File chooser**— *(Priority 3)*

4.6.6.1 The user selects this to add the functionality of allowing someone to save, open, or upload something onto their website.

4.6.6.2 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.7 **Menu**— *(Priority 3)*

4.6.7.1 The user selects this item to create a menu option for their website.

4.6.7.2 Only one menu item is allowed per page.

4.6.7.3 The user enters the names of items they want in the menu. The names are limited to 30 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.6.7.4 The items in the menu work same way as buttons.

4.6.7.5 The user must right click and click “add code” to add code for each button.

4.6.7.6 The menu looks somewhat like the following image (figure 4.6.8.a).

4.6.7.7 The user changes the layout from the widget property list (see requirement 4.6.1).
4.6.8 Calendar—(Priority 1)

4.6.8.1 The user selects this widget to show a calendar on their websites. (as seen in Figure 4.6.9.a below)
4.6.8.2 A default calendar style is displayed.
4.6.8.3 The user changes the calendar layout from the widget property list (see requirement 4.6.1).

![Figure 4.6.9.a](image)

4.6.9 Checkbox List—(Priority 3)

4.6.9.1 This widget creates a checkbox container for the user.
4.6.9.2 The user drags and drops his/her created checkbox inside the checkbox list.
4.6.9.3 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.10 Ratings Bar—(Priority 2)

4.6.10.1 This widget displays a ratings bar.
4.6.10.2 The user drags and drops this widget onto the edit area.
4.6.10.3 Only one ratings bar is allowed per page.
4.6.10.4 The user enters the interval on which the ratings are spread out into “rating out of” text field. This field only accepts integer values and is limited to 5 characters.
4.6.10.5 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.11 Callouts/ Talk Boxes—(Priority 2)

4.6.11.1 This widget creates callouts, which contain text inside bubbles.
4.6.11.2 The user drags and drops this widget onto the text area.

4.6.11.3 A default callout is displayed (see figure 4.6.19.a)

4.6.11.4 The user clicks inside the callout and enters desired text. This field has no limit and accepts all alphanumeric characters in addition to the characters ! @ $ % ^ & and *.

4.6.11.5 The user right clicks and selects change callout to select a different shape for the callout. A dropdown box is made visible, the user selects the new shape from the dropdown box. Upon clicking, the shape is changed to the clicked shape.

4.6.11.6 The user also changes the layout from the widget property list (see requirement 4.6.1).

Figure 4.6.19.a – the default callout

4.6.12 Search boxes—(Priority 2)

4.6.12.1 This widget creates a search box for a search engine.

4.6.12.2 The user drags and drops the widget to the edit area.

4.6.12.3 The user is prompted to select the search engine from a dropdown list.

4.6.12.4 The search is rendered on the edit area.

4.6.12.5 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.13 Page Hit Counter—(Priority 2)

4.6.13.1 This widget creates a page hit counter.

4.6.13.2 The user drags and drops the widget onto the edit area.

4.6.13.3 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.14 Charts and graphs creator—(Priority 3)

4.6.14.1 This widget is used to create charts and graphs for the website.

4.6.14.2 The user clicks the button assigned to create a graph.

4.6.14.3 The user gets a wizard.

4.6.14.4 The user selects the graph or chart type he/she requires.
4.6.14.5 The user fills out the necessary data for the graph or chart, for example the x and y number list for a graph. All fields have no limit and accept all alphanumeric characters in addition to the characters ! @ # $ % ^ & and *

4.6.14.6 The user is prompted to enter labels for the graph. The labels textboxes are limited to 50 characters and accept all alphanumeric characters in addition to the characters ! @ # $ % ^ & and *

4.6.14.7 The user hits OK and the graph is rendered.

4.6.14.8 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.15 Help Chat Box— (Priority 4)
4.6.15.1 This widget creates a help chat box.
4.6.15.2 This widget allows website visitors to ask for help from the website creator.
4.6.15.3 The user clicks on this button.
4.6.15.4 The user is given a wizard.
4.6.15.5 The user is prompted to enter their address for chat. This field has no limit and accepts all alphanumeric characters in addition to the characters ! @ # $ % ^ & and *
4.6.15.6 The user clicks ok. Upon verifying the address the chat box is created.
4.6.15.7 A default chat box is created.
4.6.15.8 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.16 Clock Widget— (Priority 3)
4.6.16.1 This widget creates a clock.
4.6.16.2 The user clicks on the clock button.
4.6.16.3 A wizard is displayed.
4.6.16.4 The user selects type of clock from a dropdown list. For example, the user may choose digital clock or clock with hands.
4.6.16.5 The user selects their time zone from a drop down list.
4.6.16.6 The user checks the show date checkbox to also show date with the clock.
4.6.16.7 The user clicks ok to render the clock onto the edit area.
4.6.16.8 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.17 Stock Watcher— (Priority 3)
4.6.17.1 This widget is used to display stock quotes
4.6.17.2 The user drags and drops this widget onto the text area.
4.6.17.3 The widget by default contains top five stocks of the day.
4.6.17.4 The user right clicks and selects “change display” to add or remove more companies, and a wizard is displayed.

4.6.17.5 The user checks “create custom list” radio button, and the user is prompted to add companies to a list.

4.6.17.5.1 The user adds a company by typing company name in the “company” textbox and company ticker number in the “ticker number” textbox. The user presses add to insert the company into the list. These fields have no limit and accept all alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.6.17.5.2 The user removes a company by selecting a company in the list and clicking delete button.

4.6.17.5.3 The user modifies the list by selecting a company from the list, then changing the contents of company and ticker number textboxes, and finally by clicking modify button.

4.6.17.6 The user checks “use default list” radio button to display the default view of the list.

4.6.17.7 The user checks “display last” radio button to display the companies that lost the most amount.

4.6.17.8 The user checks “display top” radio button to display companies that gain the most.

4.6.17.9 The user checks “display top and bottom” radio button to display top and last place companies.

4.6.17.10 The user enters company number in the “total companies displayed” textbox to set the total number of companies to be displayed. This field has no limit and only accepts integer values.

4.6.17.11 The user clicks OK to commit their changes.

4.6.17.12 The user clicks cancel to exit change display screen.

4.6.17.13 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.18 Locator Map – (Priority 3)
4.6.18.1 The user clicks the map button.

4.6.18.2 The user is given a wizard.

4.6.18.3 The user is asked to enter an address in the “address” text field.

4.6.18.4 The user enters the address. This field accepts 200 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.

4.6.18.5 The user then enters the width and height of the map in “width and “Height” text fields. This field accepts up to 10 characters. The input must be an integer. Any other character is shown an error message.

4.6.18.6 The user clicks OK

4.6.18.7 A map is created with the use of Google Maps

4.6.18.8 The user right clicks and selects “dimensions” to change the map display dimensions.
4.6.19 Page last edit date – (Priority 2)
4.6.19.1 This widget displays the page last edited at the footer of the web page.
4.6.19.2 The user drags and drops this widget onto the edit area.
4.6.19.3 The last saved date of the web page that is being edited is displayed.
4.6.19.4 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.20 Twitter – (Priority 4)
4.6.20.1 This widget allows the website viewers to contact the site's twitter account.
4.6.20.2 The user drags and drops this widget onto the edit area.
4.6.20.3 The user is shown a wizard needing his/her Twitter account and password in the “account number” text field and the “password” password field. The account number field accepts 200 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *. The password field accepts 8-20 alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.
4.6.20.4 The user clicks OK to create the twitter icon onto the screen.
4.6.20.5 The clicks cancel to cancel creating the widget.

4.6.21 Price comparer – (Priority 4)
4.6.21.1 This widget searches an item on various sites (such as eBay) and displays the all the matches found on these sites.
4.6.21.2 The user drags and drops this widget onto the edit area.
4.6.21.3 The user is given a wizard.
4.6.21.4 The user enters total results to show in the “total results” test box. This field is limited to 10 characters and only accepts integer values.
4.6.21.5 The user selects “show all results” radio button to show all the results. This causes the “total results” text field to be grayed out and not considered.
4.6.21.6 The user selects “show cheapest first” to show sort the results according to the cheapest prices first.
4.6.21.7 The user selects “show cheapest last” to show sort the results according to the cheapest prices last.
4.6.21.8 The user selects “ordering not set” to allow their website visitor the control of toggling between the ordering of the results. This causes the “show cheapest first” and “show cheapest last” radio button to be grayed out.
4.6.21.9 The user clicks OK to render the widget onto the screen.
4.6.21.10 The user clicks cancel to cancel adding the widget.
4.6.21.11 The text box used by the website visitor to search for an item is limited to 200 characters and accepts alphanumeric characters in addition to the characters ! @ # $ % ^ & and *.
4.6.21.12 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.22 Polls—(Priority 3)
4.6.22.1 This widget creates a poll.
4.6.22.2 The user selects this widget.
4.6.22.3 The user is prompted to enter a question in a text field. The text field is limited to 200 characters and accepts alphanumerics and the characters ! # $ % ^ & and *.
4.6.22.4 The user enters the number of choices in the choice number text box. The user can only enter an integer. Up to 20 choices can be entered.
4.6.22.5 The user is prompted to enter a heading for each choice. This field is limited to 100 characters and accepts alphanumerics and the characters ! # $ % ^ & and *.
4.6.22.6 The user can not hit OK to render the poll onto the edit area until he/she types in all the heading for the choices or changes the total choices.
4.6.22.7 The user clicks OK and the poll is created.
4.6.22.8 The user clicks cancel to close poll creation and discard any items entered.
4.6.22.9 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.23 Currency Convertor—(Priority 3)
4.6.23.1 This widget creates a tool for the website users to see the currency conversion rate.
4.6.23.2 The user drags and drops this widget onto the edit area and the widget is then displayed.
4.6.23.3 This widget comes with pre-defined currency names enter in a dropdown box.
4.6.23.4 The website visitor is to select the currency to convert from.
4.6.23.5 The website visitor is to select the currency to convert to.
4.6.23.6 The website visitor is to select OK to see the results.
4.6.23.7 The result is shown by convert 1 currency (dollar, yen, etc.) to the convert to currency.
4.6.23.8 The user changes the layout from the widget property list (see requirement 4.6.1).

4.6.24 Tooltip—(Priority 3)
4.6.24.1 This creates a tooltip for another element or widget.
4.6.24.2 The user clicks this widget button.
4.6.24.3 A wizard opens and the user is prompted to enter the id of the item to add the tooltip to. This text field is limited to 100 characters and accepts alphanumerics.
4.6.24.4 The user is then prompted to enter the text for the tip. This text field is limited to 200 characters and accepts all alphanumeric characters in addition to the characters ! @ # $ % ^ & and *
4.6.24.5 The user clicks ok and the tooltip is created.
4.6.24.6 The user clicks cancel to cancel adding the tooltip.
4.6.24.7 The user changes the layout from the widget property list (see requirement 4.6.1).

5 Non Functional Requirements

5.1 External Software Requirements
A user’s machine must have an internet browser (the website is guaranteed to work in the latest version of Firefox, Safari, and Internet Explorer, but in general, any internet browser that can load the website and application). The machine also needs access to the internet (specifically, www.sewdweb.com) to be able to create and deploy websites created within the web application.

5.2 Datastore Requirements
www.sewdweb.com hosts a Postgres database for each website created via the SEWD application.

5.3 Server/hosting Requirements
In order for users to be able to access www.sewdweb.com and the SEWD web application, the website needs to run on a server configured to serve web content and able to provide 24 hour service. The capacity requirements of the server are dependent upon how many websites have been created and stored to www.sewdweb.com. As the user base expands, so to must the resources allotted by the hosting server in order to accommodate for the growth.

5.4 Security Requirements
The user names and passwords of SEWD must be stored with encryption, such that persons of malicious intent and even the administrators of the SEWD system are unable to view them.

Passwords that are shorter than 8 characters in length are not accepted during account creation or password modification.

The unpublished content of users of SEWD remain in nonpublic folders of sewdweb.com such that they cannot be viewed via the internet, and can only be accessed after a person has verified their credentials within the SEWD web application (logged in). Folders are only made public after a user elects to publish the website contained therein.
5.5 Performance Requirements

Execution speeds of actions performed on www.sewdweb.com and during use of the SEWD application are highly dependent upon the users own system, and the traffic of the networks that the website is being accessed through. Operations requiring data access are expected to vary dependent upon the amount of data in requested/submitted. Any lapse in this performance is expected to be under constraint of external conditions of which SEWD is not able to control, nor is it responsible for.

That said, in order to gauge the acceptable performance that is anticipated for average usage the SEWD system, we make the following statement:

www.sewdweb.com is expected to deliver pages to users of broadband internet whom are accessing the website within the United States within an average of 2 seconds of the initial request to serve content.

6 User Interaction Diagrams

Please see screen flow, user interaction, screen hierarchy, and prototype hierarchy diagrams below.
7 System Evolution

SEWD can be extended to support a multitude of additional features. Aesthetic improvements can be made while maintaining the same core functionality by changing/improving the on graphical user interface and/or implementing sound effects.

The addition of elaborate help documentation would bridge the gap in between customers who have never used a computer before and those who are merely novices in web programming. Along with a searchable help contents, video tutorials could be added and suggested as a “first stop” to users who are unfamiliar with computing basics.

Other additions may include the expansion of available site templates, the addition of new widgets and further customization capabilities of existing widgets, more color schemes to choose from, and further enhance navigation bar and logo editing tools.

Lastly, SEWD can expand commercially by offering different tiers of hosting service for different subscription costs. Bandwidth, disk and database capacities, and the number of subdomains allotted can all be allocated depending on the plan chosen by the user.