Acceptance Test Plan for BASS (Blind Accessible Shopping System).

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1 Software tests

1.) Store a user defined shopping list
2.) Obtain the (x,y) position of a random product in the store
3.) Obtain the (x,y) position of a random planogram corner point
4.) User login screen - tests that voice prompts are read back to the user. Tests that user will log in successfully with a correct user name and password. Tests that an incorrect user name and password will not log in successfully
5.) Obtain the planogram groups the user must visit - based on the stored product list and a planogram layout of the store, compute exactly which planograms the user must visit to obtain his or her products
6.) Obtain all the (x,y) positions of the planograms from (5)
7.) Obtain all the (x,y) positions of the products on the users shopping list
8.) Given (6) and (7), create a walking path of the grocery store - to create a walking path that is relayed to the user, merge the product points the user must visit with the planogram corner points the user must visit.
9.) Given a walking path that will obtain all products, translate the path into voice directions read to the user by software
2 Barcode reader tests

1.) Scan an object’s UPC barcode - ability to scan a UPC and relay this information to software.
2.) Software takes in the barcode reader output (a scanned UPC) and associates a unique product stored in the database with this UPC

3 RFID reader tests

1.) Scan a single RFID tag - Reader should be able to scan a tag 2 feet away or less.
2.) Continually read RFID tags as user traverses around store
3.) Write code that responds when the RFID reader has not read a tag in a reasonable amount of time - indicates user has walked off the intended path

4 Wireless bluetooth mic tests

1.) Connect to computer - wireless bluetooth mic must be able to connect to computer
2.) Respond to user commands - commands such as ”repeat”, ”next”, and ”previous” must be registered and responded to with appropriate voice output.