

Intro to IT Assignment 3

Testing

s3785299

Tests to be conducted

As the mirror is being constructed, various testing will be conducted to keep track and record of the progression of the product prototype, as well as ensure that the device will be operating correctly as according to the specifications.. These tests will include, implementation of products is correct and functional, body tracking testing to ensure the mirror is capable of correctly identifying the user's body as well as identify and track individual body parts, ensuring the databank of clothing items is correctly implemented into the mirror to be able to display onto the user finally, the final test is a user test to check for user satisfaction when using the prototype.

Hardware testing -

A simple test to ensure that all hardware is integrated successfully and functioning together as a unit. Upon implementing the HYPERVSN as well as the battery to the mirror, we must ensure that everything is being powered correctly with the battery. To test this we will simply ensure that everything turns on and is powered correctly as well as ensure that each hardware component recognises each other to be able to be used together. Once we ensure everything is connected as should be, we move onto the next testing phase for the hardware being the ensurement of body tracking within the mirror for future implementations of the prototype. We test that the hardware tracks the user's body as well as the user's body movements by simply having a volunteer use the device with their own body to test that the mirror only tracks their body and nothing else. On top of body tracking, the testing will also include ensuring that the users body parts are individually tracked and marked and tagged correctly. If or when the hardware successfully tracks the users body and body parts is this phase of testing marked complete and flagged to be ready for the next stage of implementation and the testing that follows that.

Clothing database and mapping to the body -

Once the hardware has completed its testing and deemed ready to move to the next stage of ensuring that the database of clothing items correctly maps to the users dimensions for their body part. To test this the user will choose various outfits from the database and move around in the view of the mirror to test if the mirror continues to correctly track the user's body with the new implementation of the clothes. If the clothing items successfully stick to the user the testing is deemed successful and complete and is ready to receive the user interface and other user control stages.

Mobile App testing -

After the completion of the mobile app, the functions of the app must be tested to ensure that the bluetooth correctly links to the mirror and successfully sends commands from the app to the mirror. To test this we will link a mobile phone with the app to the mirror and test the functions of the app through the phone. If the mirror still works correctly as it did without the app the testing is successful.

User testing - The user testing will consist of giving a user a complete trial run of the program to test an outside user's experience with functionalities of the app. The user will test all features in any order they desire to ensure that the program is fully functional. The user's feedback will be taken to see if there are any improvements that can be made onto the app.

Once the user in the user testing is satisfied with the product, the testing is complete. This user testing will be done with multiple users to ensure a larger sample size of data.