

System Test Report

Project Name: WaveStyled

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Testing Approach:

To test our components, we used a combination of automated and manual testing. For the frontend, our team incorporated manual testing, which involved going through the user-interface as a user to test certain functionalities, response times, and consistency with the backend data. This was done incrementally as product development went along. Using Expo Go, we ran a server on our computers that connected the application to our phones during development which refreshed the user interface as changes were made in the code immediately. This gave immediate feedback on the code output and allowed us to test the aesthetics and functionality of the frontend smoothly. For the backend, we relied on automated testing. To test the wardrobe and recommender, we created scripts that made sure any updates from the API calls happened correctly and also to check that the data transformation for the neural network were done properly.

Scenarios:

Sprint 1:

- As a user I want to be able to add items from my actual wardrobe to my virtual wardrobe so that I can easily visualize everything I own.
- As a user, I want my wardrobe to be saved when I close the app so that I do not need to re-enter it whenever I reboot the app.

Scenario:

1. Start WaveStyled
2. Press "Create Account"
 - a. Name = <TestDummy>
 - b. Email = <test@gmail.com>
 - c. Password = <testing123>
 - d. Repeat Password = <testing123>
 - e. Press "Create Account" to Log In
3. Press "Add Item" button in top right corner
 - a. Press Camera Icon on top
 - Take Image of Item or Select from Camera Roll

- b. Fill out details of Item
 - c. Press “Save”
4. Press “Logout” Button on top left corner
5. Close app and reopen or just log back in and User will see the new item loaded on the top of the home screen. Swipe right and tap on update to view/modify saved details.

Sprint 2:

- As a user I want to see my recommended fits so that I can easily choose(or not) my outfit for the specified weather occasion.

Scenario:

1. Start WaveStyled
2. Either Login with existing email or Create a New Account using steps specified in Sprint 1 Scenario
 - a. For testing purposes, use the following information for a preloaded wardrobe account meant for app development
 - i. Email: <matt@gmail.com>; Password: <matthew>
3. Press the Shirt Icon on the Bottom Tab, or the “Recommend” Tab
4. Select the desired Occasion
5. Select the desired Weather
6. Assuming the user has enough items in the wardrobe to generate fit for chosen settings, the screen will display generated fit including images
7. Either:
 - a. Press the Green Check or Swipe **Right** to “Like” the fit but not choose the Outfit of the Day and see the next fit
 - b. Press the Red X or Swipe **Left** to “Dislike” the fit but not choose the Outfit of the Day and see the next fit
 - c. Press the Blue Hanger to Select the outfit of the day

Sprint 3:

- As a user, I want to be able to calibrate the recommendation model so that it gives me outfits that fit my preference and learn what I like to wear for future recommendations.
- As a user I want to be able to submit a picture of my clothing item so that when I receive a recommendation, I can easily identify which piece of clothing it is referred to and clearly visualize my outfit right on my phone screen.

Scenario:

1. Start WaveStyled

2. Either Login with existing email or Create a New Account using steps specified in Sprint 1 Scenario
 - a. For testing purposes, use the following information for a preloaded wardrobe account meant for app development
 - i. Email: <matt@gmail.com>; Password: <matthew>
3. Press the Heart Icon on the Bottom Tab, or the “Calibrate” Tab
4. Press the “Get Fits” Button
5. Assuming the user has enough items in the wardrobe to generate fits, the screen will display generated fit including the associated Images of the outfit items
6. User can observe the **Weather** and **Occasion** the displayed fit is being shown for
7. Either:
 - a. Press the Green Check or Swipe **Right** to “Like” the fit and see the next fit
 - b. Press the Red X or Swipe **Left** to “Dislike” the fit see the next fit
8. Like/Dislike (or Swipe Right/Left) 5-6 times
9. Press the “End Calibration Button”
 - a. After 4-5 seconds, the Recommendation Model is now tuned with the new data

Sprint 4:

- As a user, I want to be able to log into my account to access my wardrobe and outfits of the day
- As a fashion designer, I want to be able to have multiple tuned wardrobes so that I can have different recommendations for different sets of clothes (Not completed)

Scenario:

1. Start WaveStyled
2. If the User does not have an Account, follow Create Account steps in Scenario 1; otherwise Log In using existing account information
3. User should see item now rendered on the home screen (wardrobe screen)
4. Press the Hanger Icon on the bottom tab to navigate to the Outfit of the Day Tab
5. Either:
 - a. User will see “No Outfit of the Day Available”
 - i. Navigate to the “Recommend” Tab, or the Shirt Icon
 - ii. Select a Weather
 - iii. Select an Occasion
 - iv. Press the Blue Hanger Button on a fit that the User chooses as the outfit of the day
 - v. Navigate back to the Hanger Icon
 - vi. The User should be able to see that chosen fit on the screen
 - b. User will see the last chosen Outfit of the Day