Test Plan and Report

Product Name: Dress to Impress
Team Name: Wired
Date: 11/18/25

• System Test scenarios: Provide a list of system test scenarios. Ideally, the scenarios should relate to specific user stories and associated acceptance criteria.
A scenario is a list of system level interactions (including precise input and output) a user would follow to determine that each user story has been completed; i.e., all the acceptance criteria for a user story are met..

• Unit tests:If you developed automated tests, reference the relevant directories in your release branch. Note if any of the tests failed for the released system version. Be prepared to run the tests during the project review.

Scenarios

User Story 2.1: As a new user, I want to be able to create an account
Scenario 1: Create Account (Pass/Fail) - Sofia
1. Start app and nav to sign up page
2. Fill in required tables
   a. First Name: Sofia
   b. Email: gnsisofia@gmail.com
   c. Password: 12345678
   d. Press "Create account"
3. System should:
   a. Validate all required fields
   b. Check email format is valid
   c. Ensure new user is Supabase auth
   d. Create user associated profile record in database
   e. Redirect user to sign in page
4. After redirect:
   a. Sign in page should load normally
   b. Entering in same information should allow user to log in normally

Scenario 2: Missing Required Fields - Sofia
1. Start app and nav to sign up page
2. Fill in required tables but leave first name black
   a. Email: gnsisofia@gmail.com
   b. Password: 12345678
   c. Press "Create account"
3. System should:
   a. Detect missing first name

        b.   Prevent submission

        c.   Show error message next to First Name

        d.   Does not create Supabase Auth User

        e.   Does not create profile record

        f.   User stays in Sign up page

Scenario 3: Invalid Email Format - Sofia

1. Start app and nav to sign up page
2. Fill in required tables but leave first name black
   a. Fist name Sofia
   b. Email: sofia.isawesome
   g. Password: 12345678
   h. Press "Create account"
4. System should:
   a. Detect invalid email format
   b. Prevent submission
   c. Show "Please enter a valid email address"
   d. Does not create Supabase Auth User
   e. Does not create profile record
   f. User stays in Sign up page

Scenario 4: Email Already Registered (Pass/Fail) - Sofia

1. Start app and nav to sign up page
2. Fill in required fields with an email already used by another user:
   c. First Name: Sofia
   d. Email: gnsisofia@gmail.com
   e. Password: 12345678
   f. Press "Create account"
5. System should:
   a. Attempt Supabase Auth Signup
   b. Display returns "Email already registered"
   c. Display "An account with this email already exists"
   d. Does not create profile record
   e. User stays on signup page

User Story 2.2: As a returning user, I want to be able to log into my existing account – sofia

Scenario 1: Successful Login (Pass/Fail)

1. Start app and should already be on the sign in page.
2. Fill in required tables
   a. Email: gnsisofia@gmail.com
   b. Password: 12345678
   c. Press "Sign in"
3. System should:
   a. Validate all required fields
   b. Check email format is valid
   c. Attempt authentication with Supabase Auth

       d. Successfully log user in

       e. Redirect to Wardrobe page

       f. Page should display normally with no errors

Scenario 2: Missing Required Fields (Pass/Fail)

1. Star app and should already be on the sign in page.
2. Leave email blank, fill in:
   a. Password: 12345678
   b. Press "Sign In"
3. System should:
   a. Detect missing email
   b. Prevent submission
   c. Display message
   d. Does not attempt Supabase Auth
   e. Stay on Sign In page

(This can also be reversed with missing password)

Scenario 3: Invalid Email Format (Pass/Fail)

1. Start app and should already be on the sign in page.
2. Fill in:
   a. Email: sofiais.awesome
   b. Password: 12345678
   c. Press "Sign In"
3. System should:
   a. Detect invalid email format
   b. Prevent submission
   c. Show "Please enter a valid email format"
   d. Does not attempt Supabase Auth
   e. Stay on Sign In page

Scenario 4: Incorrect Password (Pass/Fail)

1. Start on Sign In page
2. Fill in:
   a. Email: gnsisofia@gmail.com
   b. Password: wrongpassword
   c. Press "Sign In"
3. System Should:
   a. Validate fields
   b. Attempt login through Supabase Auth
   c. Supabase returns "Invalid login credentials"
   d. Display "incorrect email or password"
   e. Does not log user in
   f. Stay on sign in page

Scenario 5: Email Not Found (Pass/Fail)

1. Start on Sign In page
2. Fill in:
   a. Email: notargistereduser@gmail.com

b. Password: 12345678
    c. Press Sign In
3. System should:
    a. Validate fields
    b. Attempt authentication
    c. Supabase returns "User not found"
    d. Display error to user ("Account does not exist")
    e. Does not log user in
    f. Remain on Sign In page

Scenario 6: Login With Extra Whitespace (Pass/Fail)
1. Start on Sign In page
2. Fill in:
    a. Email: gnsisofia@gmail.com
    b. Password: 12345678
    c. Press Sign In
3. System should:
    a. Trim email whitespace
    b. Validate trimmed email format
    c. Successfully authenticate
    d. Redirect to Wardrobe page

User Story 4.4: As a user, I want to be able to log out and have all of my information saved despite not being on the app. – sofia

Scenario 1: Successful Logout (Pass/Fail)
1. The user is logged in and currently on the Profile page.
2. Click Log Out
3. System should:
    a. Call Supabase signOut()
    b. Terminate active session
    c. Clear local session tokens
    d. Redirect user to Sign In page
    e. Ensure no user data is lost (all clothing items + profile remains in database)
    f. Sign In page loads normally

Scenario 2: Logout When Network Fails (Pass/Fail)
1. User is logged in
2. User navigates to Profile page
3. User clicks Log Out during a temp network/API failure
4. System should:
    a. Attempt Supabase signOut()
    b. If failure occurs, show the message "Unable to logout."
    c. Does not clear local session
    d. Does not redirect to Sign In page
    e. User remains safely logged in
    f. No loss of any saved data

Scenario 3: Logout When Session Already Expired (Pass/Fail)
1. User's Supabase has silently expired (token timeout)
2. User presses Log Out
3. System should:
   a. Attempt Supabase signOut()
   b. System returns "no active session"
   c. Frontend should still:
      i. Clear any local session/cache
      ii. Redirect user to Sign In page
   d. No user data should be lost
   e. User can sign in normally afterwards

Scenario 4: Verify Data Persistence (Pass/Fail)
1. User is logged in
2. Navigate to Wardrobe page
3. Verify clothing items exist
4. Press Log Out
5. After, redirect to Sign In page
   a. Log back in with same credentials
6. System should:
   a. Authenticate normally
   b. Show same wardrobe items, profile info, and saved data
   c. Confirm nothing changed or disappeared during logout

Scenario 5: Logout Button disabled During Loading (Pass/Fail)
1. User is logged in
2. User navigates to Profile page.
3. Clicks Log Out button
   a. Log Out request is currently processing (Little loading spinner)
4. System should:
   a. Disable Log Out button to prevent multiple requests
   b. Prevent duplicate signOut() calls
   c. Complete logout cleanly once backend responds
   d. Redirect to Sign In page, aftwards
   e. Data remains unchanged

Scenario 6: Logout from Mobile View (Pass/Fail)
1. User switches, browser/dev tools to mobile layout
2. Navigates to Profile page
3. Clicks Log Out
4. System should:
   a. Close mobile view
   b. Call Supabase signOut()
   c. Redirect to Sign In page
   d. All user data remains intact in database

User Story 2.3: As a user, I want to be able to upload and save my clothing pieces and their images - Jenny

Scenario 1: Upload a clothing item with image (Pass/Fail)
1. start as logged in user on Wardrobe page
2. Click "Add Clothing Item"
3. fill in form fields
    a. category (required)
4. select upload image
    a. choose file .jpg, .png, .webp, .gif
5. click save item
6. system should
    a. validate required fields
    b. upload image to storage
    c. store item record in db
7. user should see "Item uploaded successfully"
8. wardrobe page should refresh and display
    a. item card with uploaded image

Scenario 2: Upload a clothing Item with missing required fields (Pass/Fail)
1. start as logged in user on Wardrobe page
2. Click "Add Clothing Item"
3. leave category blank
4. select upload image
    a. choose file .jpg, .png, .webp, .gif
5. click save item
6. system should
    a. detect missing required field
    b. prevent submission
7. user should see "Please select an item in the list" next to category.
8. wardrobe page should not create or display a new item.

Scenario 3: Upload a clothing Item with unsupported image type (Pass/Fail)
1. start as logged in user on Wardrobe page
2. Click "Add Clothing Item"
3. Select category = Shirt
4. attempt to upload a file with unsupported format (.heic)
5. File upload should not allow invalid file types

Scenario 4: Upload a clothing item without an image (Pass/Fail)
1. start as logged in user on Wardrobe page
2. Click "Add Clothing Item"
3. Select category = Shoes
4. do not upload an image
5. click save item
6. system should:
    a. detect missing image
    b. save button should be unavailable

7. wardrobe page should not create or display a new item

User Story 3.7: As a user, I want to upload my clothing items and remove their background - jenny

Scenario 1: Upload item and successfully remove background (Pass/Fail)
1. start on wardrobe page as logged in user
2. click "Add Clothing Item"
3. fill in required fields
4. upload a valid image file
5. system should
    a. send image to background removal api
    b. process image and return transparent background version
6. user should see a preview of process image
7. click "save item"
8. wardrobe page refreshes and displays item with processed image

Scenario 2: Background Removal Fails (API Error) (Pass/Fail)
1. start on wardrobe page as logged in user
2. click "Add Clothing Item"
3. fill in required fields
4. upload a valid image file
5. simulate api error (API key invalid)
6. system should
    a. display error "background removal failed"
7. image is not saved
8. user may retry image upload

User Story 3.6: As a user, I want to be able to see my clothing stats in the profile page. -shivani

Scenario 1: No stats
1. Create an account as a new user
2. Since users have no clothing items or outfits in their wardrobe, they will not see insights with numbers on the profile page.
3. On the profile page they will see 0's and blank page for the most worn item

Scenario 2: existing user with clothes uploaded
1. Log in a preexisting user that has already uploaded clothes
2. Navigate to the profile page and see insights such as total number of clothing items, number of outfits, number of favorites, and most worn item.

Scenario 3: Existing user uploads/edit clothing and sees stats page updated
1. Log in as a user and open up app to the Wardrobe page
2. Click "Add Item" and upload an item
3. Navigate to the Profile page, and see that the number of closet items has increased by one.
4. Navigate back to the Wardrobe page and create an outfit. Navigate to the Outfit page and wear an outfit multiple times to increase the worn count of that outfit.

5. Navigate to the Profile page and see that the most worn outfit in the closet has changed to something different if all existing closet items were only worn once.

User Story 2.4: As a user, I want to view my clothes in my closet. - sona
Scenario 1: No Clothing Items in Wardrobe
   1. Log in as a valid user.
   2. If not already on the page, select the "Wardrobe" tab from the navigation bar.
   3. Expected result: The message "No items in your closet" is displayed.
Scenario 2: At least 1 clothing items in the wardrobe
   1. Log in as a valid user with at least 1 item in the wardrobe.
   2. If not already on the page, select the "Wardrobe" tab from the navigation bar.
   3. Expected result: A grid/list of all clothing items is displayed. Each clothing item is represented by an image of it.

User Story 3.2: As a user, I want to create and save new outfit combinations, & then view them.
Scenario 1: View an existing outfit on the outfit page - Shivani
   1. Log in as a preexisting user
   2. Navigate to the Outfits page from the bottom nav bar
   3. View an outfit card that contains clothing items, the number of times the outfit has been worn, and the last date the outfit was worn
   4. If no outfits exist, a message that says no outfits will show up
Scenario 2: Create a complete outfit and see it be saved to the outfits page
   1. Log in as a preexisting user and look at clothes on the Wardrobe page
   2. Select at least one of these combinations by clicking the square in the left corner of the item card. Additional items such as outerwear and accessories can be added in addition to one of the combinations listed below.
        a. Shirt + Pants/Short/Skirt + shoes
        b. Dress + shoes
   3. Select "Save Outfit" in the bottom selection bar.
   4. User will be prompted to give a name to that outfit, else it is named Outfit - [Current Date]
   5. Navigate to the Outfits tab from the bottom nav bar and see that the outfit combination has been saved in a new card
Scenario 3: Create an outfit with a name that already exists or an outfit with the same clothing combination as another outfit
   1. Log in as a preexisting user
   2. Select clothing items to make a combination
   3. Select "Save Outfit"
   4. Type in a name of an outfit that already exists
   5. User's outfit name will be rejected and be shown a message that outfit name is already used.
   6. User is again prompted for a new name
Scenario 4: Create an incomplete outfit
   1. Log in as a previous user

2. Select a clothing combination that does not work.
    a. Each outfit needs these combinations as its base
        i. Shirt + Pants/Short/Skirt + shoes
        ii. Dress + shoes
3. User gets rejected from being able to save the outfit and is given a reason ("no bottoms" or "no top")

User Story 3.8: As a user, I want to be able to filter and sort through the items in my wardrobe.
Scenario 1: Filter wardrobe items by category (Pass/Fail)
1. Log in a a preexisting user with at least 1 shirt item in your wardrobe
2. Click the shirt button
3. Expected Result:
    a. the button should turn black to indicate it has been selected
    b. The page reloads to only display the shirt(s) in the wardrobe
Scenario 2: Apply multiple filters together (category + color) (Pass/Fail)
1. Log in a a preexisting user with at least 1 casual pants item in your wardrobe
2. Click the pants button
3. Type in casual in the search bar
4. Expected Result:
    a. The pants button turns black to show it's been selected
    b. Only clothing items that are labelled both pants and casual appear
Scenario 3: Filter results in no matching items (Pass/Fail)
1. Log in as preexisting user with no pants items in your wardrobe
2. Click the pants button
3. Expected Result:
    a. The pants button turns black to show it's been selected
    b. No images appear in the wardrobe page
    c. Message that says "No items found"
Scenario 4: Sort wardrobe items (with and without filters) (Pass/Fail)
1. Log in as preexisting user with more than 1 shirt in your wardrobe
2. Change sort to "Most Worn"
3. Expected Result: The clothes will be displayed in descending order of times worn
4. Click the shirt button, and ensure the "Most Worn" is still active
5. Expected Result: Only the shirts display in most worn order
Scenario 5: Clear filters and reset sorting (Pass/Fail)
1. Log in as a user with multiple items across categories and occasions.
2. Apply any filters and sorting such as shirts and most worn
3. Confirm the list is being filtered and sorted
4. Unclick the shirt button and reset the most worn to default
5. Expected Result: the list should revert to the original default view that displays all wardrobe items

User Story 3.4 As a user, I want to be able to view the details of my individual items of clothing.

Scenario 1: View Details Modal
1. Log in as a valid user with at least 1 item in the wardrobe.
2. The user should automatically land on the wardrobe page upon login
3. Click on a clothing item from the grid/list.
4. A modal opens displaying the item's information, including the image, category (e.g., top, bottom, shoes), color, and user-entered tags.

User Story 4.3: As a user, I want to be able to view details of the outfits I create.
Scenario 1: No Outfits Created
1. Log in as a valid user who has not created any outfits.
2. Navigate to the "Outfits" tab from the navigation bar.
3. The message "No outfits created yet" or similar is displayed.
Scenario 2: View Details of an Existing Outfit
1. Log in as a valid user with at least 1 saved outfit.
2. Navigate to the "Outfits" tab from the navigation bar.
3. Click on an outfit from the displayed list/grid.
4. A detailed view opens showing all clothing items that make up the outfit, the outfit name (if provided), date created, and amount of times worn.

User Story 4.1 As a user, I want to be able to visualize my own clothing on myself so that I can try on clothes without going through the effort of putting them on
Scenario 1: No clothing items in wardrobe
- User is unable to select the "generate outfit" button
Scenario 2: No shirt is selected
- Users will be able to select the "generate outfit" button and will see the existing shirt from the body profile on the user.

User Story 4.2 As a user, I want to save AI-generated outfits so that I can revisit them for inspiration
Scenario 1: User successfully creates an incomplete outfit (one missing either top, bottom, and/or shoes) and the ai image is visible and saved
- User logs in
- User navigates to the AI page and creates an incomplete outfit
- AI image is generated and fills in the missing items with items already on the body profile
- User navigates to the outfits page and sees the image saved underneath AI outfits
- User clicks on the image and sees what clothing items were used to make the outfit
Scenario 2: User successfully creates a complete outfit
- User logs in
- User navigates to the AI page and creates an complete outfit
- AI image is generated and fills in the missing items with items already on the body profile
- User navigates to the outfits page and sees the image saved underneath AI outfits
- User clicks on the image and sees what clothing items were used to make the outfit

User Story 4.8 As a user I want to see more statistics/ai recommendations based on how often i wear clothes and outfits

Scenario 1: No items in the wardrobe
- User navigates to the profile tab to see that there are no donation recommendations currently at the bottom of the page

Scenario 2: Item that meets these criteria: Not a favorite, item is not new and not worn in the last two months, not worn once and not touched in over a year, never worn for a long time, kind of formal and not worn in past 6 months, formal and not worn in the past year
- Existing user logs in
- User navigates to the profile tab to see an item that meets the criteria in the donate section