**Sprint 3 Plan**
Product: Dress To Impress
Team: Wired
Completion Date:
Revision Number: 1
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**Goal:**

The goal of this sprint is to work on spillover tasks from sprint 2 related to images, user authentication, and outfit generation, and also work on ai image generation for outfit try on. By the end of this sprint, we will have completed our MVP, which includes allowing a user to sign in/log in to their own account. The user will have access to their wardrobe and be able to add items as well as filter through them. Users can also create, save, and see their outfit combinations created from existing closet items on a separate tab called Outfits. Additionally, users should be able to view their clothing stats such as number of favorites/clothing items worn on the Profile page. A user should also be able to upload a body profile and then view a created outfit on their body with the use of AI.

Sarone:
Sofia:
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Overflow tasks from last sprint:

- **User Story 3.1 [CONTINUATION OF SPRINT 2]** As a user, I want to save closet items so my items stay favorited/deleted/edited when I refresh the page [5 points]
    - Task 1: implement state management
    - task 2: Automate GET/POST request to Supabase so the frontend modifications match the back for favorites/deleting.

- **User Story 3.2.1 [CONTINUATION OF SPRINT 2]** As a user, I want to create new outfit combinations and save them to the database [5 points]
    - Task 1: create frontend component for a bar that shows up at the bottom when a clothing item is selected in the wardrobe page
    - Task 2: create system so that once a clothing item is selected in the wardrobe page, a new button called create outfit pops up (task 1)
    - Task 3: replace the category things for filtering so it matches with "add item" component category
    - Task 4: be able to increment the worn status for the outfit and the clothing items when the outfit is "worn"

- **User Story 3.2.2 [CONTINUATION OF SPRINT 2]** As a user, I want to save and then view my outfit combinations [3 points]
    - Task 1: Create api route to post created outfit combination to supabase outfit_combinations table
    - Task 2: Automate get and post requests to supabase so the frontend modifications match the back (task with sona)
    - Task 3: Render image_urls so closet items can be see in the outfit collections
    - Task 3: Additional Task: be able to delete the outfit that was just created

- **User Story 3.3 [CONTINUATION OF SPRINT 2]** As a user, I want to use all features simultaneously on the wardrobe page, such as filtering through images and adding new images.
    - Task 1: Merge and consolidate all changes in Wardrobe.tsx so that we can have a cohesive “final” product.
        - Merging/making this look better: search+filtering, add item, grid of item components

- **User Story 3.4** As a user, I want to be able to view my individual items of clothing.
    - Task 1: create view details component (5)
    - Task 2: integrate with wardrobe page (2)
    - Task 3: integrate with outfits page (2)

- **User Story 3.5** As a new user, I want to be able to create an account, log in, and reset my password [5]
    - Task 1: Utilize Supabase authentication components
    - Task 2: Create sign up page (1)
    - Task 3: create api routes for user creation to supabase auth
    - Task 4:  add user data and test api calls
    - Task 5: connect to the frontend
    - Task 6: Create a similar sign in page (1)
    - Task 7: Create api routes to check for user information in supabase auth
    - Task 8: add user data and test api calls
    - Task 9: Connect to the frontend

- **User Story 3.5.2** As a new user, I want to be able to view/edit only my data (integrating) [5 points]
    - Update user id/auth for Add Item component
    - Update user id/auth for Outfits component
    - Update user id/auth for Wardrobe component
    - Update user id/auth for Stats page component

- **User Story 3.6** As a user, I want to be able to see my clothing stats in the profile page. [5]

~~- Task 1: call supabase for stats~~

Sprint 3 – AI Image Generation

- **User Story 3.7** As a user, I want to upload my clothing items and remove their background [5]
  - ~~Task 1: implement image upload handler~~
  - ~~Task 2: decide method of removing background from images~~
  - ~~Task 3: Create api route so that whenever an image is added, the background remover job is run on the image before it gets saved~~

- **User Story 3.8** 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 [13 points]
  - Generate outfit images with clothing combinations selected by user. Given some outfit already saved in supabase, system returns a single composited image of the entire outfit. That image should then be saved.
  - Task 1: Set up OpenAI API key
  - Task 2: (Compositing) Prompt engineer/Use RAG so that background of the clothing item is removed
  - Task 4: Fetch images with background removed
  - Task 5. Create new table for generated outfit images
  - Task 6: Create endpoint
  - Task 7: Error Handling
  - Task 8: UX (frontend task)
  - Task 3: Save the cropped image in a new table in the database with the name as the uncropped image but with a slightly different keyword in the name.

- **User story 3.9** As a user, I want to visualize my clothing on myself on a page that is visually appealing and easy to navigate
  - Mainly frontend tasks
  - Task 1: Create the frontend page for the AI page
  - Task 2: Recreate design on Figma on the AI page
  - Task 3: Test the sizing and responsiveness of the page

- **User Story 3.10** As a user, I want to save AI-generated outfits so that I can revisit them for inspiration
  - Task 1: link api routes from generated outfits table  to outfits table by joining the tables in supabase
  - Task 2: Create api route to post/save the image to the database
  - Task 3: Create frontend component/button
  - Task 4: On outfits page, create toggle button to switch between collage view of outfits to ai generated image of outfit on user

- **[STRETCH] User Story 3.11**

- As a user, I want to be given ideas on what to wear based on things in my closet
    - Generate outfits from existing pants, shirts, accessories based on information from tagging system (only focus on dress code)
    - Task 1: take in user’s measurements and recommend silhouettes so we don't have to use an image of the users body photo

**[BACKLOG] Clean up Github repository**

- Task 1: to remove duplicate and unnecessary files
- Task 2: refactor Supabase handling files