

Project Progress Update

Progress Made:

Mobile App Static Pages Developed:

- **Home Page:** Designed and implemented a visually appealing home page layout.
- **Wardrobe Organization:** Created an interface for users to view and manage their clothing collection.
- **Outfit Recommendation:** Implemented the user interface for displaying personalized outfit recommendations based on the 'occasion' prompted by the user.
- **Trends Analysis:** Developed the User interface to display current fashion trends and suggestions based on data scraped from the internet.

Plans Ahead:

Integration with Backend and Database:

- **Backend Integration:** We plan to integrate the static pages with the backend server to fetch and serve dynamic content.
- **Database Integration:** Implement functionality to store user data, clothing items, and recommendations in the database.

Additional Features to Implement:

- **Login and Signup:** Develop authentication functionality for users to log in and sign up.
- **Image Upload:** Allow users to upload images of their clothing items to the wardrobe.

API Endpoints Required:

ML Models:

1. **Clothing Categorization:** We require an ML model endpoint that categorizes clothing items as soon as images are uploaded to the wardrobe.
2. **Outfit Recommendation:** Another ML model endpoint is needed to provide outfit recommendations based on the user's wardrobe contents.
 - Optional: Integration with weather data for more personalized recommendations.
3. **Trends Analysis:** An endpoint for a trends model that updates weekly with the latest trendy outfits scraped from the internet.

Expected Communication with ML Models:

- **GET Request:** We expect to send requests to the first ML model to categorize clothing and return the assigned tags as responses.
- **GET Request + Database Fetch:** For the second ML model we expect to send the user profile and the prompted-for occasion as the GET Request. The model should be able to retrieve images from the database and return the image IDs corresponding to the recommendation. The team has had a discussion on the feasibility of this model due to high latency of image analysis. In that case, the tags of the clothing items themselves could be used for the recommendation.
- **Automatic Database Update:** The trends model should automatically update the database with the latest trends on a weekly basis.

Next Steps:

- Integrate the static pages with the backend and database.
- Implement login/signup functionality and image upload feature.
- Coordinate with the ML team to establish API endpoints and communication protocols.