Project Overview

Welcome to the Intelligent Wardrobe Management System project! This initiative aims to revolutionize wardrobe management using cutting-edge technologies such as deep learning, artificial intelligence, and machine learning. The focus is on creating a user-friendly app that seamlessly organizes wardrobes and provides personalized outfit recommendations based on user preferences, real-time weather data, and fashion trends.

Roles and Responsibilities Clarification

What We Deliver

As the frontend and app development team, our primary responsibilities include:

• User Registration and Preferences:

- Implementing user registration functionalities.
- Developing user profile management features.

• Wardrobe Initialization:

- Creating interfaces for users to add and manage clothing items.

• Mobile App Interaction:

- Building mobile app screens for wardrobe views, outfit recommendations, and user preferences.
- Ensuring smooth user interactions and experience.

• Search and Filter:

- Developing search functionality for specific wardrobe items.
- Implementing filters for sorting and organizing the wardrobe.

• Weather Integration:

- Integrating real-time weather data into the app interface.
- Adjusting outfit recommendations based on weather conditions.

What We Expect

Interns will contribute by delivering three ML models as black boxes:

1. Image Recognition and Object Detection Model:

- Utilizing CNNs for image recognition.
- Implementing object detection algorithms for clothing items.

2. Collaborative Filtering Model:

 Developing collaborative filtering algorithms for personalized outfit recommendations.

3. Deep Learning Model for Trend Analysis:

• Using RNNs or LSTMs to analyze temporal trends in fashion data.

Note: The interns' focus will be on ML model development; app development falls within our domain.

Next Steps

Deliverables

Our immediate focus is on the design phase. Over the next two weeks, we plan to deliver:

- Finalized UI/UX Design Mockups
 - Collaborate on UI/UX design mockups.
 - Finalize design elements and user flows.
- Detailed Functionality Specifications
 - Define detailed functionality specifications.
 - Begin development work on the agreed-upon design.

Tech Stack

Our current tech stack includes:

- Frontend: React Native
- Backend: MERN Stack (MongoDB, Express.js, React.js, Node.js)
- Additional APIs: FastAPI for ML model integration
- Database: SQL (Structure to be finalized)

Note: Finalization of the tech stack details will be part of the ongoing development process.

Feedback and Questions

Please feel free to provide any feedback or ask questions about the project. Your input is valuable to us!

Conclusion

Thank you for your continued support and collaboration. We are excited about the progress we've made and look forward to delivering a sophisticated Intelligent Wardrobe Management System. If you have any further questions or concerns, please don't hesitate to reach out. Together, we'll create something amazing!