# Team 28 Project Charter

## Team Members
Aaryan Srivastava, Aditya Patel, Atharva Gupta, Rishabh Pandey, Sanjhee Gupta

## Project Title
OOTD - Smart Closet for Users

## Problem Statement
Efficiently managing a wardrobe, crafting the perfect outfit, and discovering new fashion pieces can be challenging and time-consuming for many individuals. Traditional methods of wardrobe organization and outfit planning often lack objectivity and struggle to keep pace with expanding personal collections. Current Smart Closet applications on the market, like GetWardrobe Outfit Planner, OpenWardrobe, and Acloset, have a similar management system when displaying a user's clothes, but they often require links to brands to upload the clothes onto the smart closet. Our aim is to simplify this process by simply adding a scanner feature. Additionally, to stimulate activity and traffic, we will add a social media aspect of our app for users to share their inspired fits with friends and family. Our project aims to revolutionize these processes by developing a sophisticated management system for clothing. This system will offer innovative outfit suggestions and elevate personal fashion styles, taking into account modern trends, price considerations, and the unique preferences of each user, as reflected in their existing wardrobe. Our goal is to transform closet management and outfit planning into a streamlined, personalized experience. By integrating user-specific data, such as their current wardrobe items, we will provide tailored fashion recommendations, enabling users to effortlessly explore and integrate new trends and outfits. Our solution is designed to alleviate the overwhelming nature of a growing wardrobe, making fashion-forward choices more accessible and enjoyable for everyone.

## Project Objectives
1. Enable users to update their virtual closet dynamically by allowing users to scan and upload images of their clothes, which will then be shown in their virtual closet.
2. Integrate a pleasant UI experience for users to scroll through their various outfits.
3. Introduce a Marketplace option that allows users/shop owners to upload clothes through URLs from brand providers. Provide affiliate links to generate income.
4. Provide a "Test This Outfit" feature that combines a shopping item with already-owned clothing before purchasing an item.
5. Add social interaction similar to BeReal where users share their outfit for the day, allowing friendly interaction between friends and encouraging full use of their closet.

6. Enhance user experience by allowing them to customize their shopping filters such as price ranges, current fashion styles, and current “taste” in clothing.
7. Tentative plan: add an AR fitting room to allow users to try on clothing items.

Stakeholders

Users: Typical users would include people who would want to add better style, manage their closet, and interact with friends with their planned fits.
Shop owners: upload their products onto the marketplace for users to try and experiment with.
Developers: Aaryan Srivastava, Rishabh Pandey, Sanjhee Gupta, Aditya Patel, Atharva Gupta
Project Manager: Aaryan Srivastava
Project Owners:  Aaryan Srivastava, Rishabh Pandey, Sanjhee Gupta, Aditya Patel, Atharva Gupta

Project Deliverables

● Front-end React framework that provides good UI for closet management, social media, and a marketplace. It allows users to sign in, create an account, view their shopping cart, etc. OR (SwiftUI frontend IOS app).

- User Closet
- Marketplace
- Social Media

● Build an ML-based recommendation system for clothing and recommend apparel for users. Integrate a social media aspect of the platform using basic front-end.
● Python-based backend for handling user data, item data, and social media outfits, as well as closet inventory.

- A database based upon Google Firebase to store user and item data.