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Project Design Phase-I
Solution Architecture

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Date	19 September 2022
Team ID	PNT2022TMID43745
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Solution Architecture:

Flask based Application

Flask is a web framework that is written in Python and the latest version is Flask 0.11. Hence a flask based application is created for downloading the images of the user from their respective account. The steps involved are

☐ Registering the application

☐Obtaining the keys

☐Authenticating the application with Website

After the configuration of the application, the user is redirected to the login page.

Then the user clicks the Login with Website button. It initially checks whether the user is logged in. If the user is logged in it initiates the authentication process. Then the user will be asked to authorize the application's access to their account.

Similarity Matching

The recommendation is made based on the collection of dresses in the wardrobe. A dataset of about 2000 images is considered for analysis.

The similar dresses are identified by calculating the eucledian distance between the image features of two images. The similar dresses are identified and displayed for the user.

This will help the user to identify the similar kind of dresses that are available in the market.
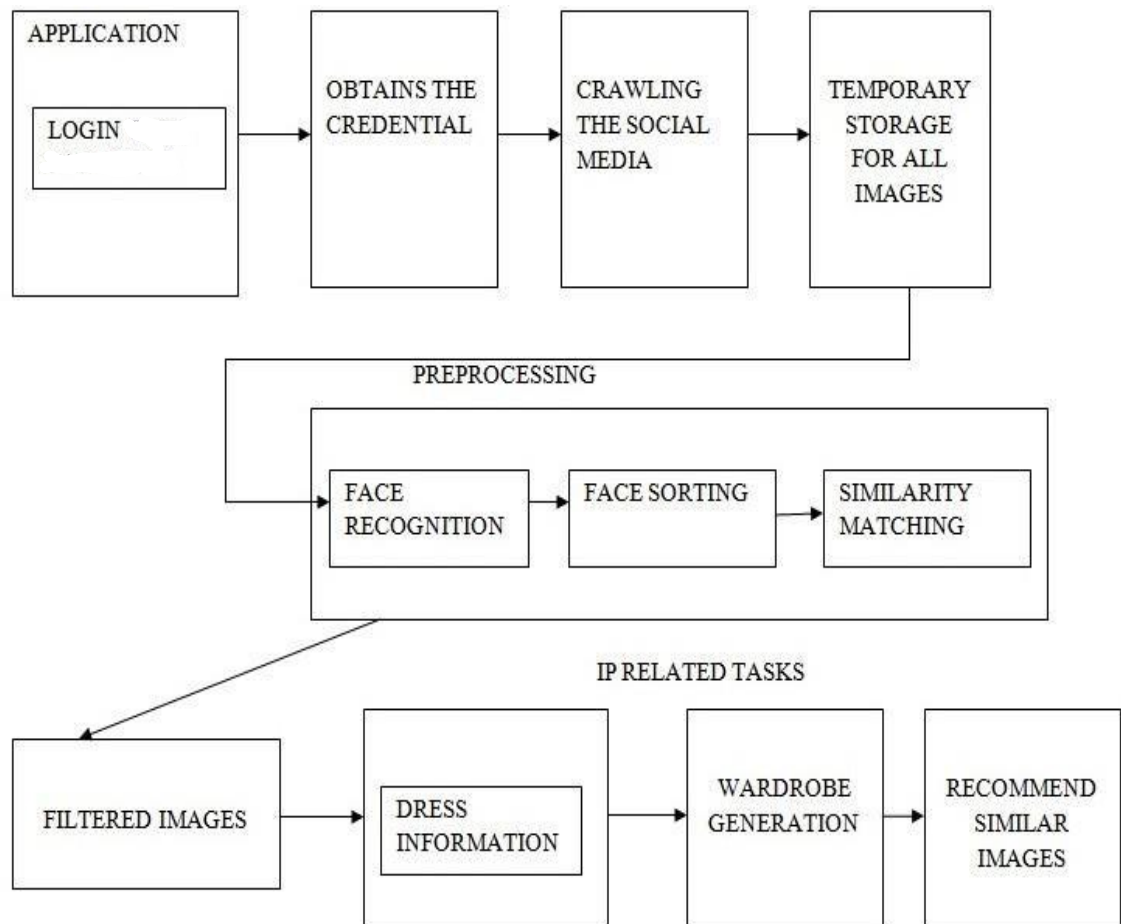
Example - Solution Architecture Diagram:

Figure 1: Schematic representation for finding similar dresses