Trendy Threads
(AI Outfit Recommendation App)

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Project Guide:
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1. Introduction

The AI Outfit Recommendation App is a modern tool that makes fashion decisions easier. It understands your style, takes the weather into account, and looks at your current clothes to suggest outfits. This way, it helps you save time, feel more confident, and simplifies your fashion choices.

- **Problem Identified** :

Choosing what to wear can be tough because we have so many clothes and then there's the challenge of dressing right for the weather plus, many people don't know their style or don't use their clothes effectively, making things even trickier.

- **Solution Proposed** :

The AI Outfit Recommendation App solves these issues. It helps you decide what to wear by suggesting outfits that match your style and the weather. It also encourages you to be more stylish and get creative with your clothes.

2. Objectives

1. To enhance user shopping experiences by providing personalized and relevant outfit suggestions based on their preferences and style.

2. To make shopping more enjoyable for users by giving them outfit suggestions that match their style.

3. To help users save time and make getting dressed easier by offering outfit ideas that go well together.

4. To let users see how different outfits would look on them before they buy, so they can make smarter choices.

5. To suggest the perfect outfits for important events like weddings, parties, and job interviews, helping users look their best on special occasions.

3. Scope

1. Can be applied to fashion e-commerce websites to enhance the shopping experience by offering personalized outfit suggestions to customers.

2. Can be useful for professional stylists to assist them in creating personalized looks for clients, saving time and ensuring client satisfaction.

4. Features

1.Selfie-Based Skin Tone Analysis-
   Allow users to take a selfie within the app, and utilize AI to analyze their skin tone.

2. Personalized Outfit Recommendations-
   Based on the analyzed skin tone and user preferences, provide personalized outfit recommendations that complement the user's complexion.

3. Style own outfit- user can create their own outfit based on their preference.

4. Other features-
   User can get recommendation of a particular outfit in different color.
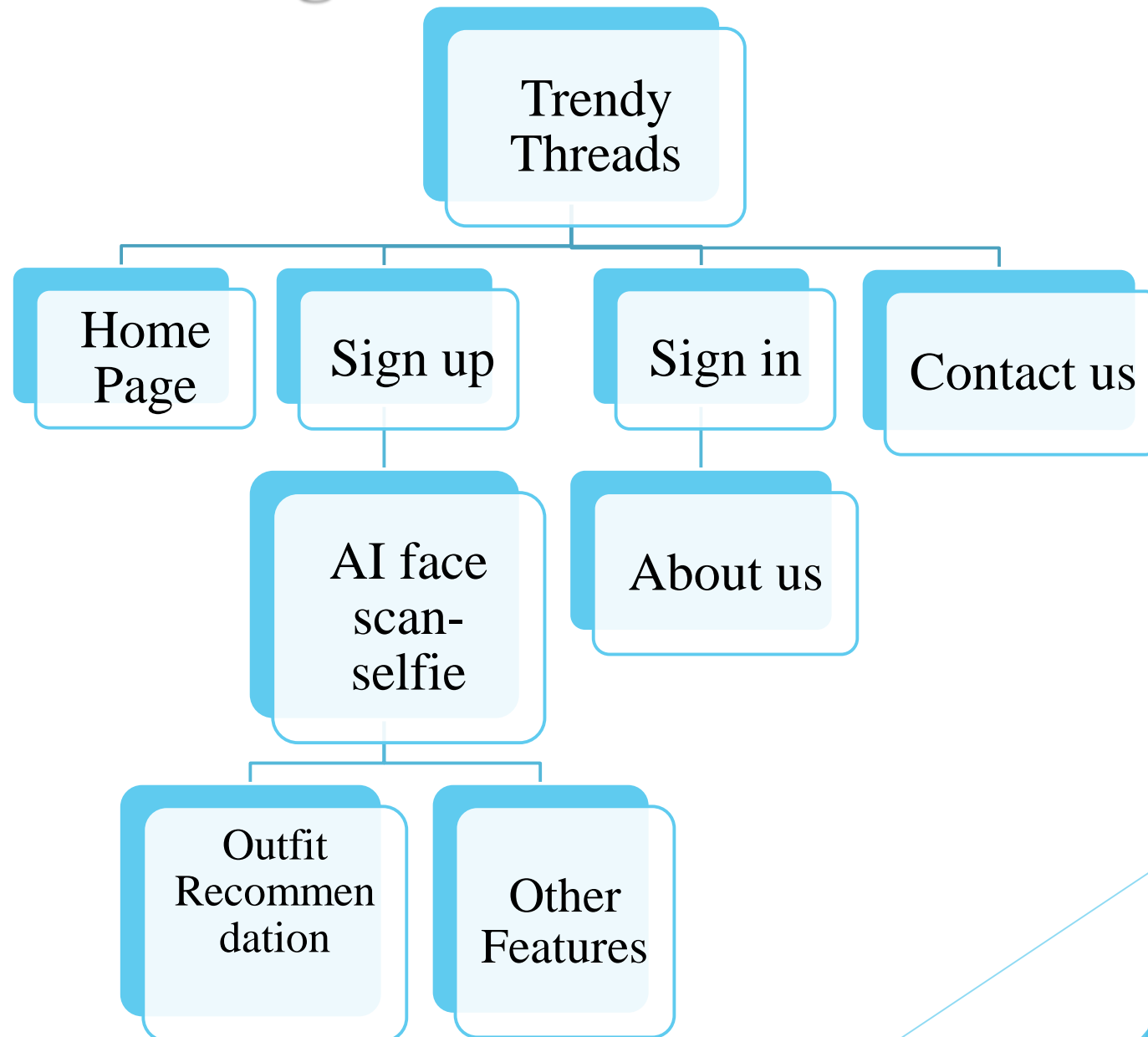
5. Outcome of Project

1.   User can explore variety of outfits.

2.   User can take a selfie and it will analyse the skin tone.

3.   According to the skin tone, the user can get recommendation for the outfits.

4. User can get recommendation of a particular outfit in similar pattern but in different colors.

6. Technology Stack

Tools used for the development of the front end (GUI) & Backend (database)

1. Frontend- PyCharm community edition 2023.1

2. Backend – Python, Mysql 8.0 CE

3. AI and Computer Vision Libraries – OpenCV

4. Algorithms used –Skin tone analysis algorithm(Haar cascade algorithm, CNN and local binary patterns)

7. Block Diagram

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