PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Data Science

Criminal Face Recognition
(CRIMINAL EYE)

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Project Guide
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1. Introduction

- The criminal face recognition system is an initiative to develop a technology that can aid law enforcement agencies in identifying individuals who have been accused or convicted of a crime. The project involves creating a program that can analyze Real-Time footage and images of a suspect's face and compare it to a database of known criminals to identify a match based on specific facial features and characteristics.

1. Introduction

- **Problem Identified**

1. Time Consuming Investigations

Traditional methods of investigation can be time-consuming and require a lot of resources, which can delay the identification of a suspect.

2. Difficulty in finding criminals in crowded places

Crowded places can limit visibility, making it difficult for law enforcement officers to get a clear view of the suspect.

4. Time Constraints

In crowded places, time is often of the essence, as the criminal may attempt to flee the scene or blend in with the crowd.

5. Limited Eyewitness and Evidence

Witnesses may not have seen the suspects face clearly to make a positive identification.

Physical evidence, such as fingerprints or DNA samples may be difficult to obtain.

6. Multiple suspects

Crowded places can often have multiple suspects.

1. Introduction

- Solution Proposed :

1. Real-Time Criminal Recognition

2. Faster and more accurate identification

3. Improved data collection

4. Automated Process

5. Time Efficiency

6. Enhanced safety and security

2. Objectives

1. To accurately identify suspects :

2. To Enhance public safety :

3. To Automate the identification process:

4. To Reduce human error:

5. To minimize Cost-effectiveness:

3. Scope

1. Law Enforcement

2. Border control and immigration

3. Airport Security

4. Tourists place

5. Banking and Hospitals

4. Feature /Functionality

1. Facial detection and capture

2. Facial recognition and matching

3. Real-time identification

4. Database management

5. Accuracy and reliability

6. User-friendly interface

5. Outcome of Project

1. User can login and register.

2. User can create criminal database and view database.

3. User can detect criminal by uploading images.

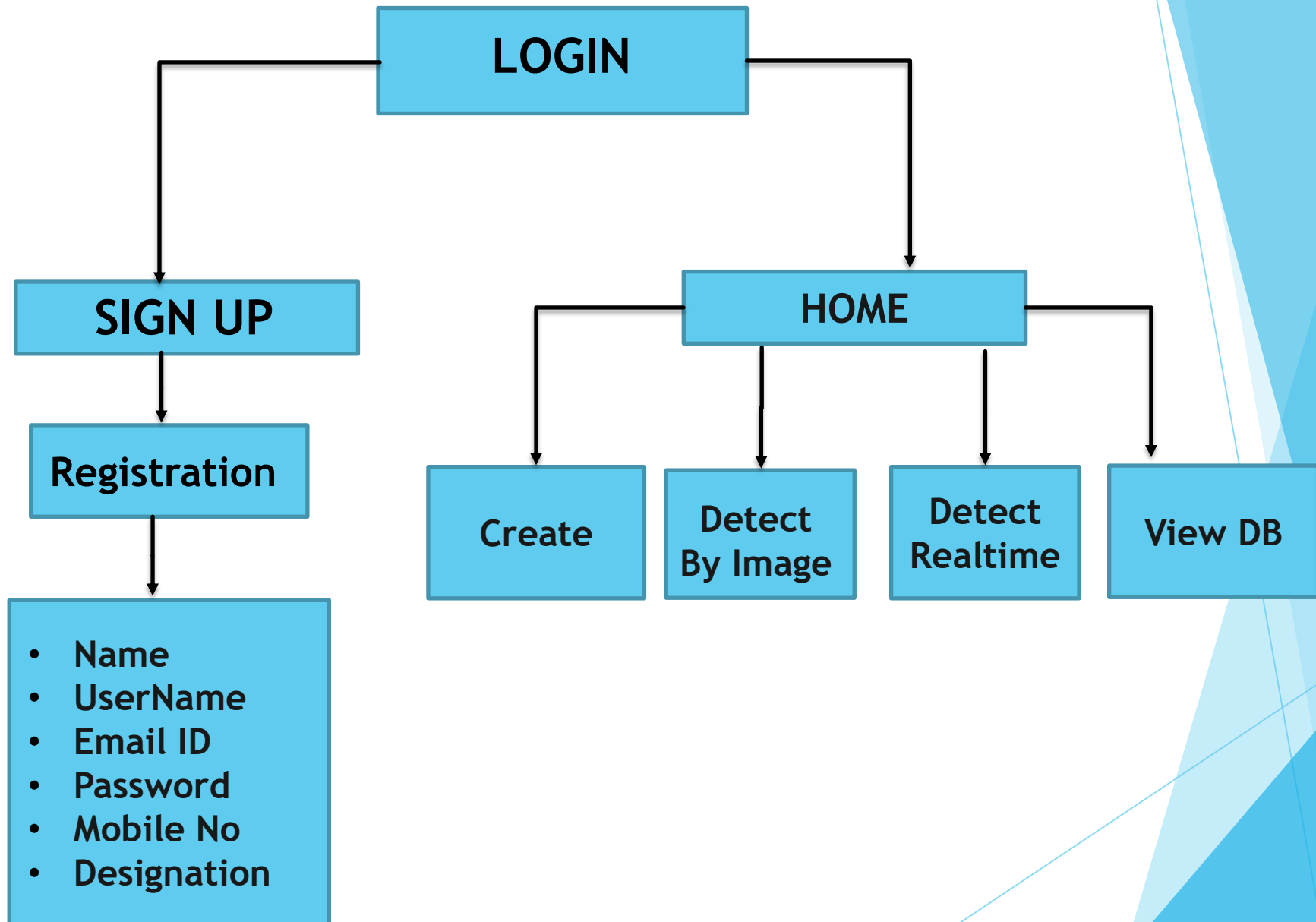4. User can detect criminal in real time.

6. Technology Stack

1. Frontend:

   i.   Pyqt5

   ii.   PyCharm 3.11.0

2. Backend:

   i. PhpMyAdmin-MySQL

   ii. XAMPP

   ii. MySQL conenctor

7. Block Diagram

Thank You...!!