



Faculty Attendance System



OBJECTIVE

Creating a database that contains attendance information of the faculties.
Linking this system to an existing faculty attendance management system.
Capturing live feed from camera to record attendance times.
Linking the information captured by the feed to the database for accuracy of results.

FUNCTIONALITIES

Admin and Employee Login

(I) **Admin**

Register new employees
Add employee photos to the training dataset
Train the model & add holiday list.
View attendance reports of all employees.
Attendance can be filtered by date or employee.

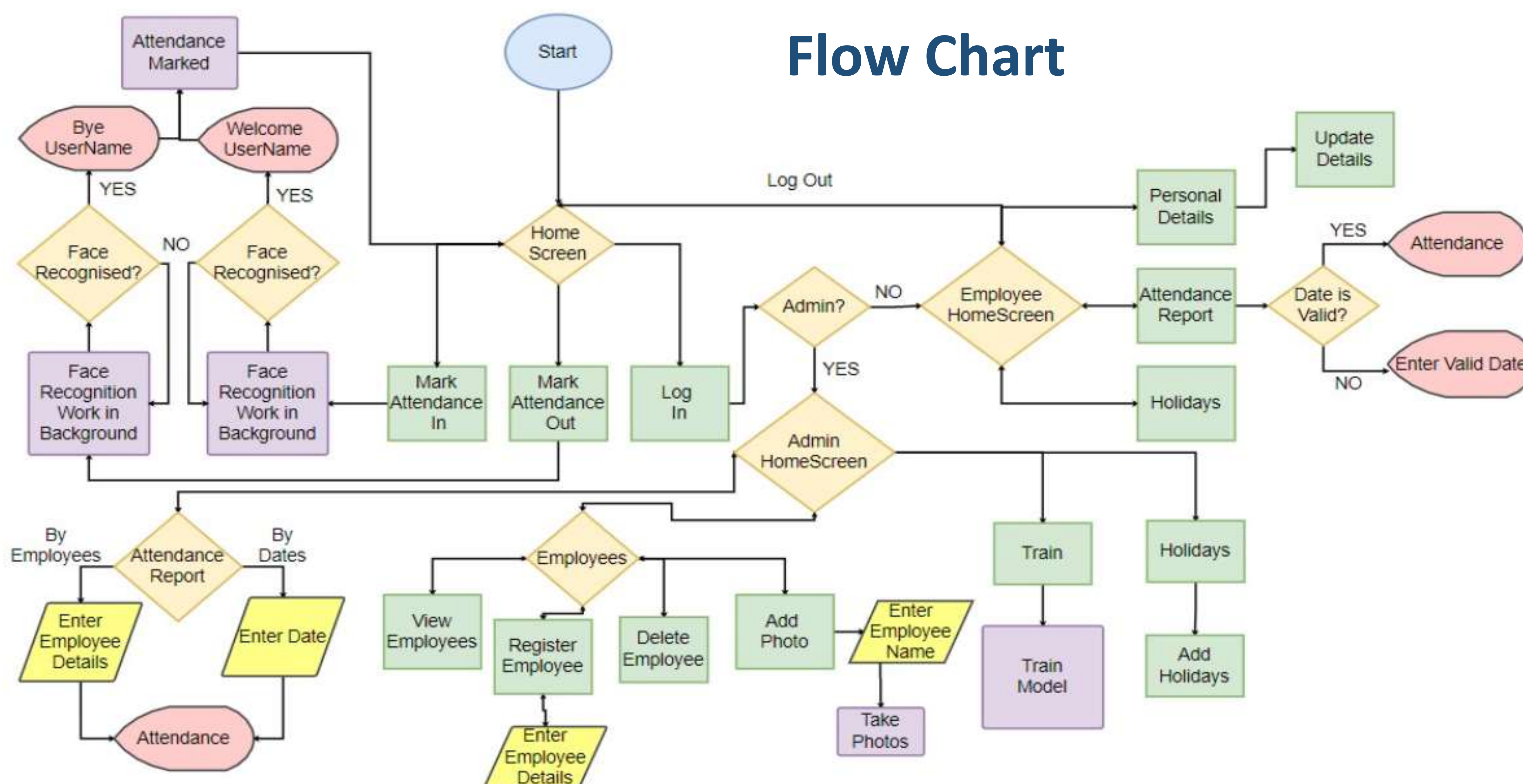
(II) **Employee**

View attendance reports of self & view Holiday list.

OVERVIEW

This project aims to automate the traditional attendance system where the attendance is marked manually. It also enables an organization to maintain its records like in-time, out time, break time and attendance digitally. Digitalization of the system would also help in better visualization of the data using graphs to display the no. of employees present today, total work hours of each employee and their break time. Its added features serve as an efficient upgrade and replacement over the traditional attendance system.

Flow Chart



Operating Environment

- **OpenCV** - Image processing.
- **Dlib** - Library used for Facial Alignment, Landmark Detection.
- **Face Recognition** library by Adam Geitgey - which wraps around Dlib's facial recognition functionality, making it easier to work with.
- **Matplotlib, Seaborn, NumPy, Pandas** - Data Handling and Visualisation
- **Django** - web development
- **Programming Language** : HTML, CSS, Python
- **Database** : SQLite3

Prepared By:

Dax Patel (18ce070)

Jay Patel (18ce077)

Ritul Patel (18ce084)

Shail Patel (18ce086)

Guided By:

Prof. Ronak Patel