

Project Overview

Technologies used:

Python, Flask Framework, HTML, CSS, JavaScript, SQLite Database

Features Implemented:

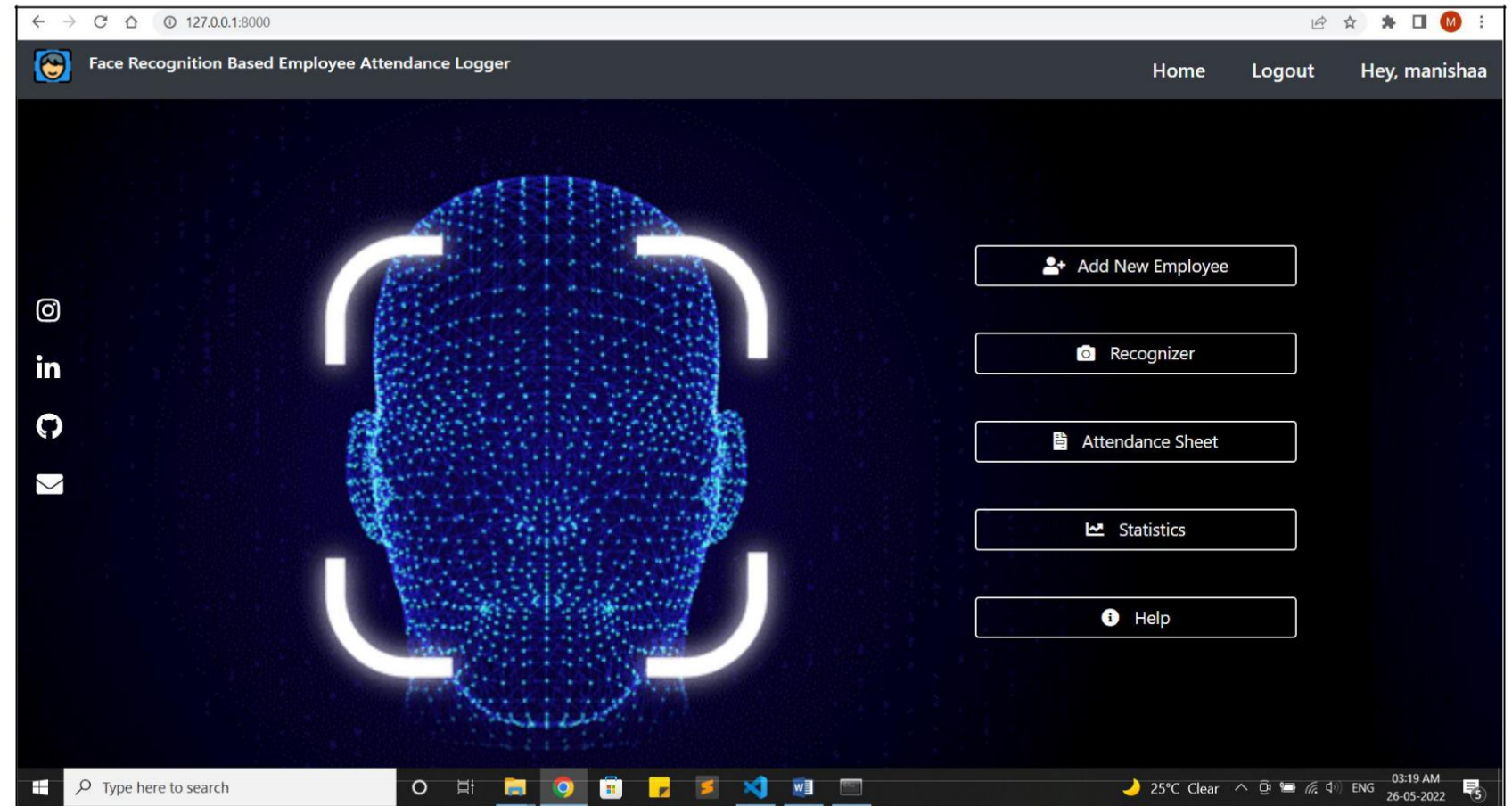
1. Managing Employee database, CRUD operations.
2. Uploading photo from files or capturing from webcam by detecting smile.
3. Face recognition and mark attendance of known ones.
4. Look over, download or reset attendance logs.
5. Statistics of Attendance records.
6. Chatbot to assist new users.
7. Authentication (login, register).
8. Sending mail when employee/user is successfully registered
9. Reset password using OTP authentication through registered email id.

User Interface and features

Home Page

On index.html we have options for all other elements. Login is required to access all the elements except 'help'. If person is not logged in then instead of logout and 'hey, username' we'll have login column in navbar.

On the left side developer's contact details has been provided. We can get back the home page by clicking on Home or application logo in the Navbar.



Add Employee

On this page the whole database of registered employees is available. We can add new employee just by filling the given fields. After clicking on upload photo you'll get 2 options – either upload from files or take photo from camera. After choosing one of the respective field will appear. If the employee is successfully registered with an unique employee id, then he/she will receive a mail regarding registration.

We can also delete or update the existing employee.

127.0.0.1:8000/add

Face Recognition Based Employee Attendance Logger

Home Logout Hey, manishaa

Add New Employee

Employee ID:

Full Name:

Department:

Email:

Employee Database

Show entries

Search:

SNo	Id	Name	Dept	Email	Hiring Date	Photo	Action
1	MC21101	Harshit Varshney	Admin	harshit1@gmail.com	18-05-2022		<input type="button" value="Delete"/> <input type="button" value="Update"/>
2	MC21102	Disha Gupta	HR	disha2@gmail.com	18-05-2022		<input type="button" value="Delete"/> <input type="button" value="Update"/>

Type here to search

03:20 AM
26-05-2022

Attendance Sheet

Here all the attendance records are available. you can get attendance records for a specific date, employee or department by searching them in search bar. These records can be downloaded or reset.

The column status on the table shows whether the person is currently employed by this organization or not. Changes are made automatically in the table when an employee is updated or deleted.

127.0.0.1:8000/AttendanceSheet

Face Recognition Based Employee Attendance Logger

HomeLogoutHey, manishaa

Records

Download Today's AttendanceDownloadReset Today's Attendance

Show 10 entriesSearch: 26

	Id	Name	Department	Time	Date	Status
22	MC21104	Manisha Varshney	Admin	03:29:12	26-05-2022	On Service

Showing 1 to 1 of 1 entries (filtered from 22 total entries)Previous1Next

Type here to search

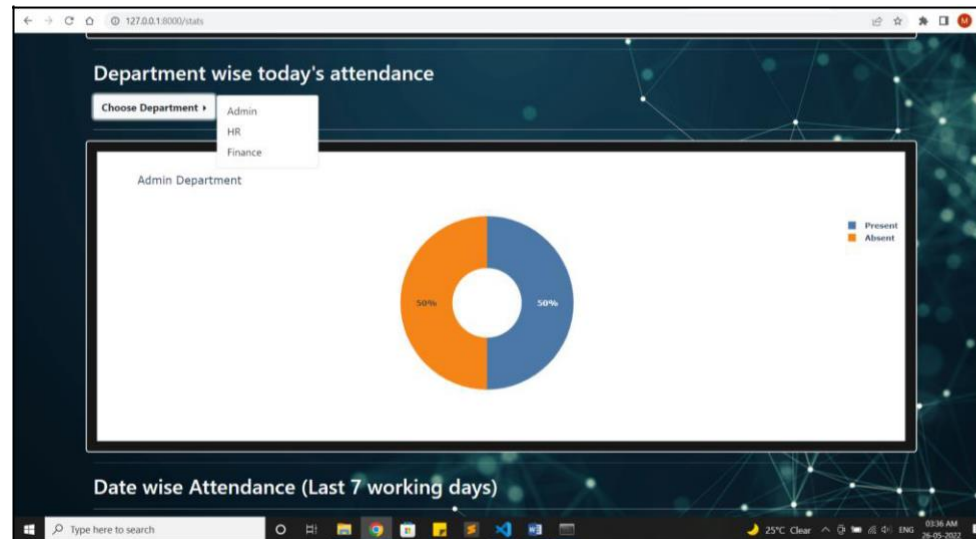
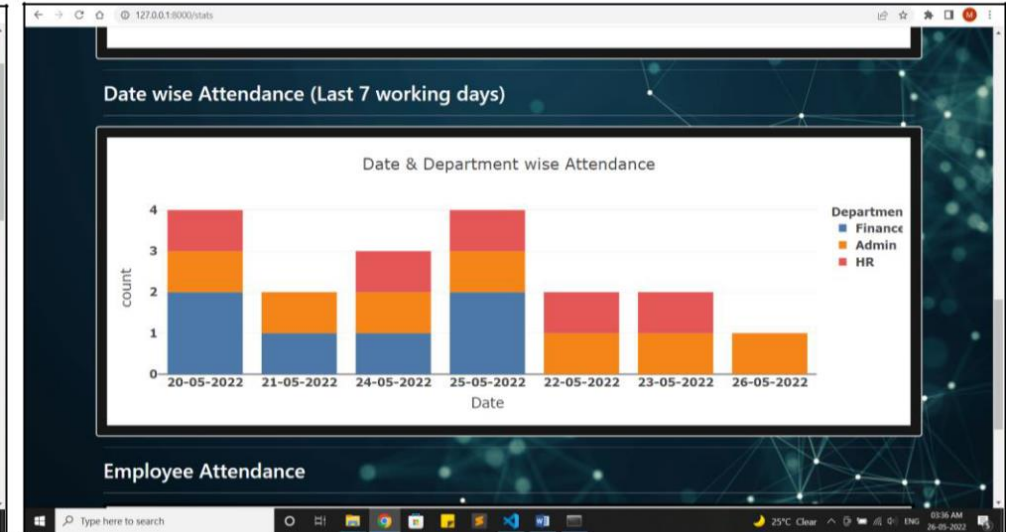
25°C Clear

03:35 AM26-05-2022

Statistics

Interactive Charts showing some stats related to attendance records. These charts can be downloaded as png, zoomed in/out etc.

Attendance of all employees (on service) is shown in the table in last which is sorted by attendance in descending order.



Employee Attendance

Show 10 entries

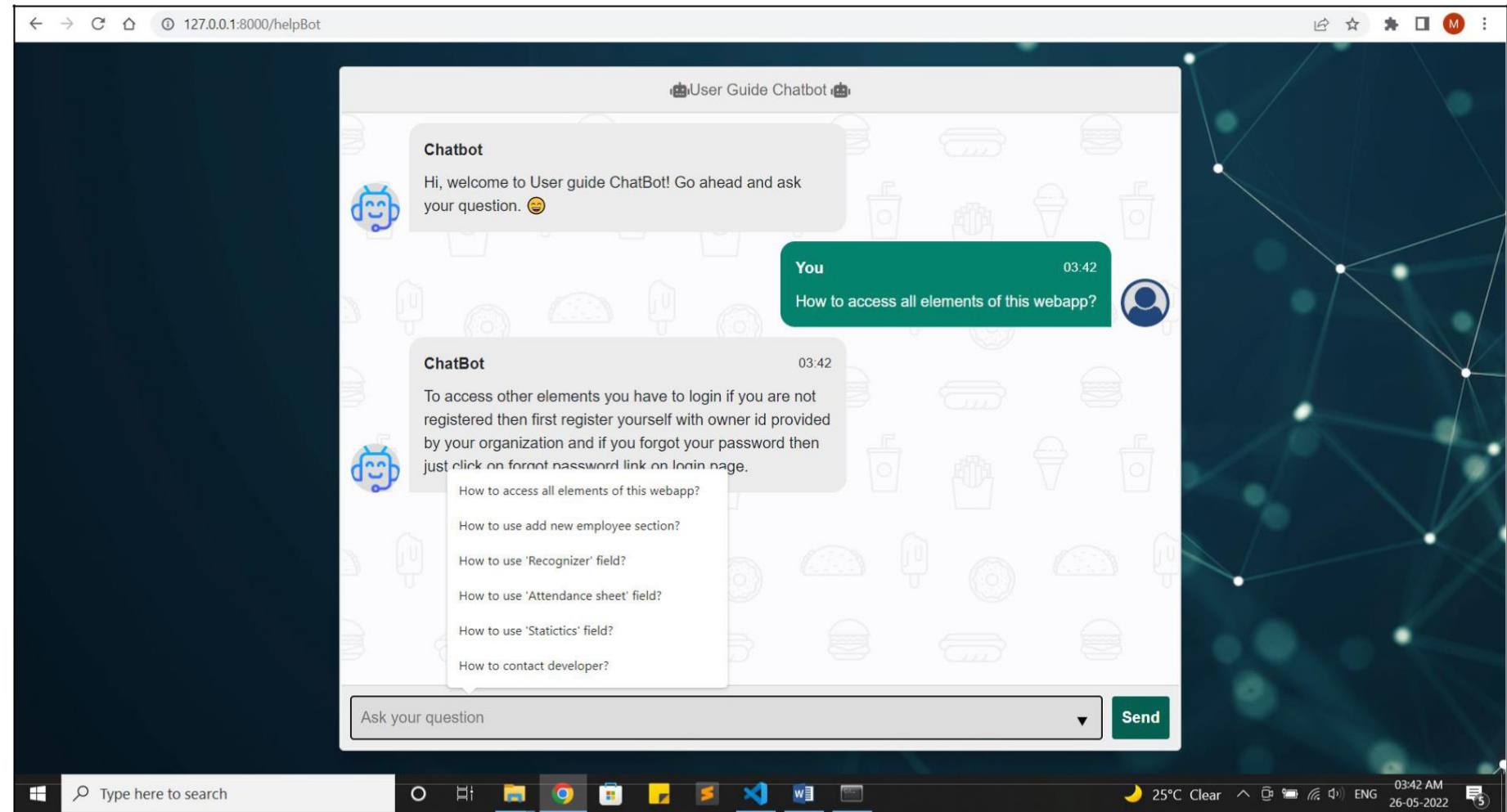
	ID	Name	Department	Mail	Hiring Date	Attendance(%)
1	MC21104	Manisha Varshney	Admin	varshney.manisha05@gmail.com	26-05-2022	100.0
2	MC21101	Harshit Varshney	Admin	harshit1@gmail.com	18-05-2022	77.78
3	MC21103	Dheeraj Varshney	Finance	dheeraj3@gmail.com	18-05-2022	66.67
4	MC21102	Disha Gupta	HR	disha2@gmail.com	18-05-2022	55.56

Showing 1 to 4 of 4 entries

Previous 1 Next

Help

This user guide chatbot helps user with questions like how to use specific feature of this application.

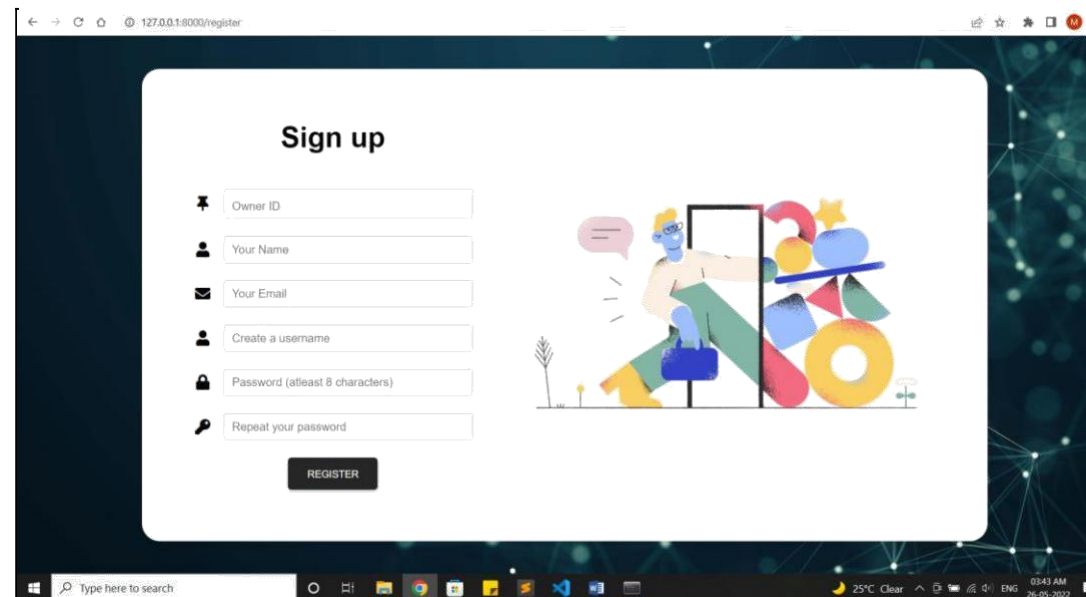
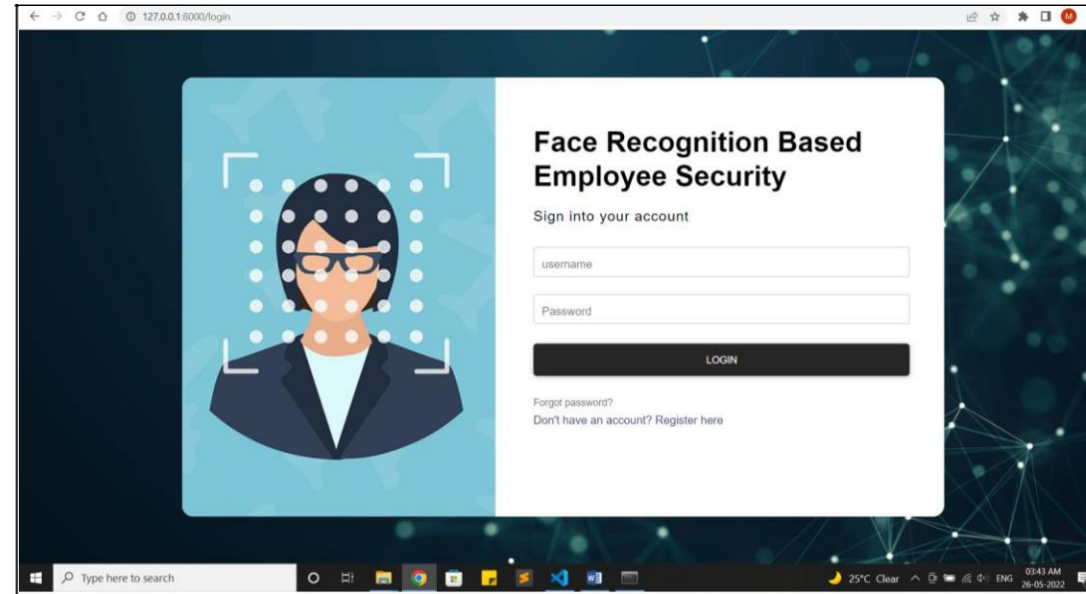


Log in

Log in page to sign into your account and get access to all the elements of the application.

Gives message if the username or password entered is not correct.

A user does not need to login every time they use this application, the system will keep them logged in until they logout.



Sign Up

To create a new account, click on register here on login page.

Users can register themselves by using an owner Id which has a specific pattern ('owner' followed by at least 2 digits)

Gives message if the fields are not correctly filled.

Forgot Password

If the user forgot his password, they can click on forgot password on login page. The system will mail an OTP to the given mail id, user can verify the OTP and then reset their password.

Gives messages if fields are not filled correctly

