

The Project

Patient Management Application

Prepared By:

Prashant Singh | Technical Trainee, at TEKsystems Global Services Pvt. Ltd.

About:

This **Patient Management Application** checks if the patient is already registered and registers the patient if they're not.

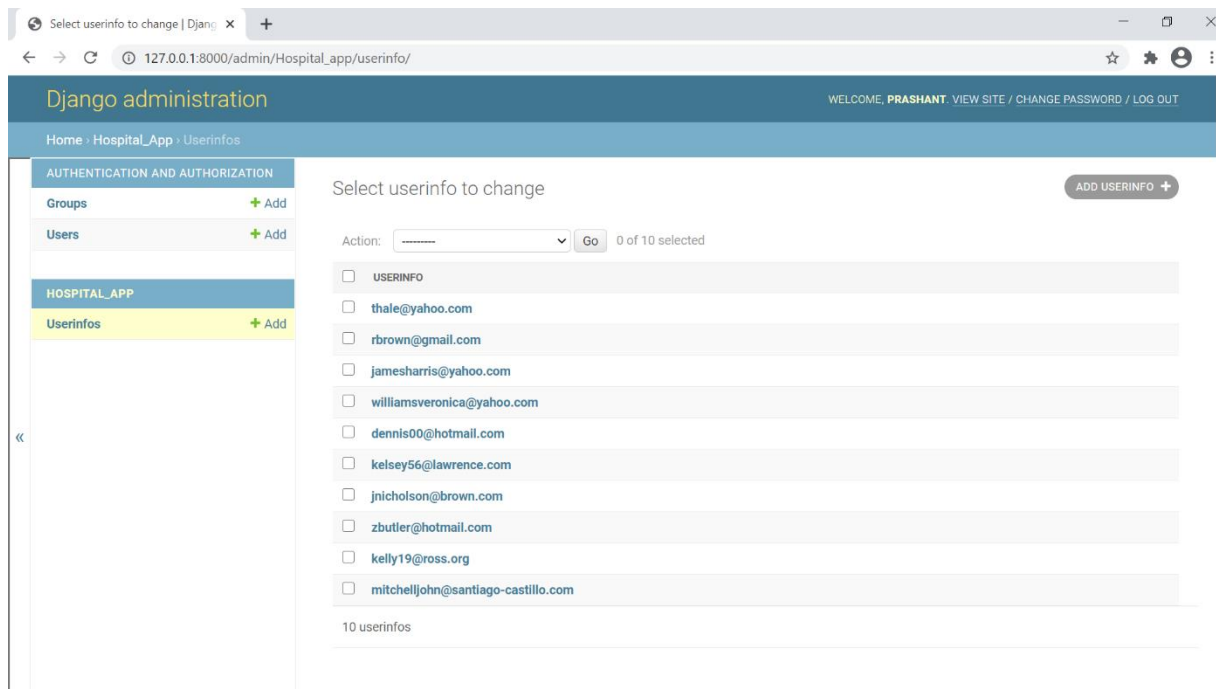
Tools and Libraries Used:

- Django 3.1.7
- Faker 7.0.1
- Python 3.9.2
- SQLite DB

Overview

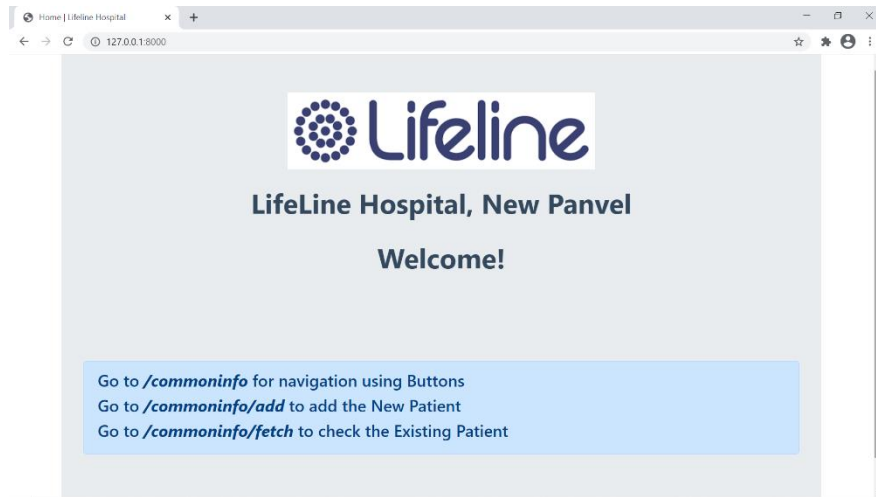
Data Processing

I used the Django Inbuilt SQLite database to store the patient's information.



Home Page

This is the first page you will see when the "python manage.py runserver" command is issued on the terminal.



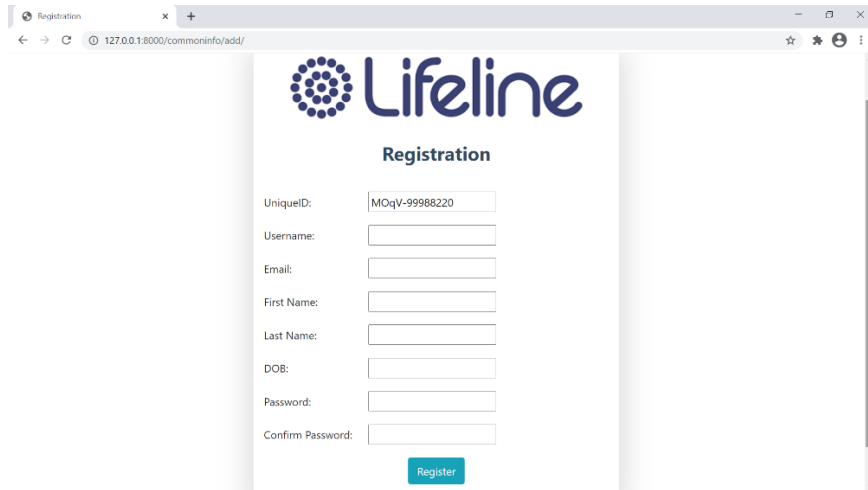
127.0.0.1:8000/commoninfo/

This allows user to navigate to the Registration page and Check Page using Buttons.



127.0.0.1:8000/commoninfo/add/

This is the registration form where if the patient's file is not in the database, he can register here. I have used Django **ModelForm** to make this Registration Form. All the Validations of UniqueID, Email, Password is taken care by this ModelForm.



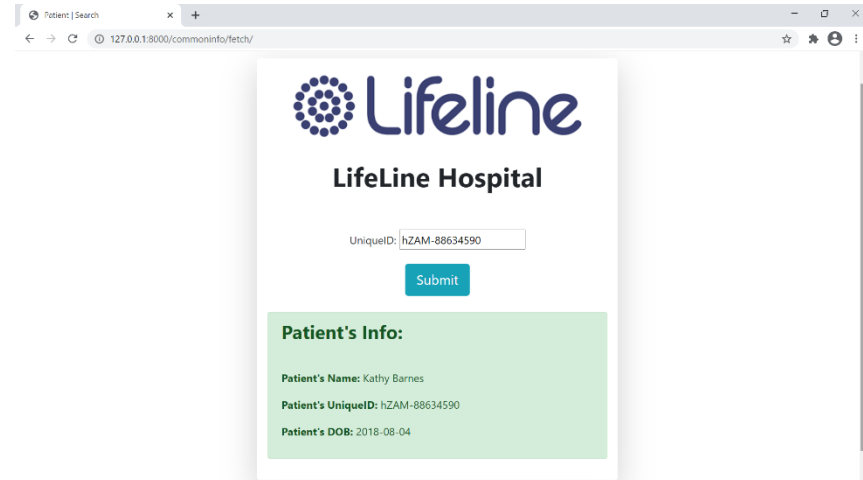
The screenshot shows a web browser window with the URL 127.0.0.1:8000/commoninfo/add/. The page features the Lifeline logo at the top. Below the logo, the word "Registration" is centered. The form contains several input fields: UniqueID (with the value "MOqY-99988220"), Username, Email, First Name, Last Name, DOB, Password, and Confirm Password. A blue "Register" button is located at the bottom right of the form.

127.0.0.1:8000/commoninfo/fetch/

This is the Check form where the patient's file is check in the database using UniqueID. If the file is not found in the database, it says **“Unique ID Doesn’t Exist”** or, if the file is found, **it displays patient information**. I have used **Django Forms** to make this Check Form.



The screenshot shows a web browser window with the URL 127.0.0.1:8000/commoninfo/fetch/. The page features the Lifeline logo at the top. Below the logo, the text "LifeLine Hospital" is centered. The form contains a UniqueID input field with the value "PYwY-52650125" and a blue "Submit" button. Below the form, a red error message states "UniqueID Doesn't Exist !".



The screenshot shows a web browser window with the URL 127.0.0.1:8000/commoninfo/fetch/. The page features the Lifeline logo at the top. Below the logo, the text "LifeLine Hospital" is centered. The form contains a UniqueID input field with the value "hZAM-88634590" and a blue "Submit" button. Below the form, a green box displays the patient's information:

- Patient's Info:**
- Patient's Name:** Kathy Barnes
- Patient's UniqueID:** hZAM-88634590
- Patient's DOB:** 2018-08-04

Conclusion

The **Patient Management Application** is to modernize a hospital using technology. A large amount of patient data or records may also be stored. This web application is reliable enough to find large data records. During the development of this, coding standards are followed for ease of maintenance and scalability. The project has been successfully designed and is tested for accuracy and quality. During this project, I achieved all the goals and this project meets the needs of the assigned requirements.