PROJECT REPORT FOR MUSIX (A MUSIC APPLICATION DESIGNED WITH FLASK)

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| Project Submitted By:- | Trainer Name:- |
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**Overview:-**

MEDIX is a pharmaceutical web application which is designed using HTML, CSS and Bootstrap 4 in the front-end. The Database used is POSTGRESQL while DJANGO framework is used for the business logic of the application. The web application provides the following features:-

* This application contains 3 types of users (Normal user, Vendors, Hospitals). Each user has separate login and Signup facility.
* The Vendor user can upload all the details of medicines that are present in his stock.
* Each Vendor can edit and update the details of the medicine which he has uploaded.
* The vendor verification process as well as the hospital verification is done by the admin/superuser.
* Normal user can order the medicines which he requires. He can also search for a particular medicine if required.
* After placing the order by normal user or hospital, a notification will be sent to vendor and the vendor has the facility to accept or reject the order, in either case, user will receive an email.
* Hospitals can also place the order for the required medicine.

**ROLES AND RESPONSIBILITIES**

The task of designing the web application was divided among the team members as follows:-

1. Kumarguru V : Worked on the backend and the database part of the web application.
2. Pratikshit Thakur : Worked on the frontend design and part of the database design.
3. Harsh Kumar: Worked on the frontend part as well as connecting the backend and frontend.
4. Saurabh D Kalekar: Worked on the frontend design mainly and part of backend.
5. G k sreevineeth: Worked on the frontend design mainly and part of backend.

**Requirements**

The requirements for this project were :-

1. Python 3.X
2. Text Editor (VSCode)
3. DBMS (postgreSQL)
4. Django Framework
5. HTML, CSS, Bootstrap4

**Functionality**

The website is divided into the following parts:-

1. **Login/Signup**: There are three types of users:- Normal users, hospitals and vendors. Each of these are provided with separate login and signup functionalities. Hospitals and Vendors have to be verified by the admin/ superuser to unlock the rest of the features of the website
2. **Index**: It is the homepage of MEDIX. It has the dashboard which contains the number of users of each of the three types.
3. **Inventory:** This page contains the inventory details of the vendor. Here the vendor can add medicines to his inventory, delete medicines and also update medicine information. Also the vendor can view all the orders placed by the normal users and hospitals and has the option to accept or reject the orders. On accepting or rejecting the user is sent an email notification regarding the order.
4. **Search Page**: This page is used by the users and hospitals to view the details of all the medicines provided by all verified vendors. He can also search for specific medicine and add them to his cart. This page has a cart functionality as well where the user can view his order details and place his order.

**Source Code**

Source Code is present on github.

The link to the repository is :- **https://github.com/77CaptainClaw77/MEDIX**

The link to the live website is:-

**https://intense-hollows-54183.herokuapp.com**

**Libraries:**

The python libraries used in this project are:-

1. **Django Framework:** Used for business logic of the application.
2. **Psycopg2:** To connect with the postgresql database.
3. **Gunicorn and Whitenoise**: These are used for hosting the web application on Heroku.
4. **PhoneField**: This is used to store phone numbers of all formats in the database

**Directories:**

Directories tree structure is shown below:

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├── hospital documents

├── license\_documents

├── main\_app

│   ├── admin.py

│   ├── apps.py

│   ├── forms.py

│   ├── \_\_init\_\_.py

│   ├── migrations

│   ├── models.py

│   ├── \_\_pycache\_\_

│   ├── tests.py

│   └── views.py

├── manage.py

├── MEDIX

│   ├── \_\_init\_\_.py

│   ├── \_\_pycache\_\_

│   ├── settings.py

│   ├── urls.py

│   └── wsgi.py

├── Procfile

├── requirements.txt

├── static

│   ├── css

│   ├── fusioncharts.py

│   ├── img

│   ├── js

│   └── \_\_pycache\_\_

└── templates

├── AddMedicine.html

├── base

├── cart.html

├── HospitalRegister.html

├── Index.html

├── Inventory.html

├── NormalUserRegister.html

├── Orders.html

├── search\_page.html

├── UpdateMedicine.html

├── UserHospitalLogin.html

├── vendor\_dashboard.html

├── vendor\_login.html

└── VendorRegister.html

**Database Design:**

