MEDICINE LOCATION FINDER

Project Link : **https://github.com/anjanamanoj5/Argon.git**

ABSTRACT

"MEDICINE LOCATION FINDER" is an online platform which helps people locate their required medicines in nearby pharmacies. The system reduces the hassle of physically locating pharmacies and enquiring about the availability of their required medicines. The mobile application provides a search field which allows the user to search for their required medicine. When searched, nearby pharmacies with the required medicine are displayed in a map, along with their details.

The platform is made possible with the help of an integrated inventory management system for pharmacies. There is a database which stores the pharmacy details as well as their inventory data.

Pharmacies can register in the webapp using their credentials and details. After registration, the webapp user is logged in and redirected to the billing page. The products can be searched and then selected from the suggestions, which in turn adds it to bill items. After all the sale products are added, the bill is submitted for processing and storing. There is also a page for viewing and modifying inventory as well as a page for viewing sales reports and exploring old sales information .

PROJECT DETAILS

MEDICINE LOCATION FINDER is an online platform which helps people locate their required medicines in nearby pharmacies. The mobile application provides a search functionality which queries the inventory of nearby pharmacies and determines the availability of a specific medicine. There is a database in the server which stores the pharmacy details as well as their inventory data. This database is utilized and populated by an integrated web portal for pharmacies. The web portal has features for sales, inventory modification as well as reports.

MOBILE APPLICATION

The mobile application is to be used by the customers searching for nearby pharmacies with the required medicine.It acts as an interface between the API and the customer.

Technologies used in mobile application:

1. Flutter
2. Google Maps Platform

Details:

HOME SCREEN

The Mobile application user enters the application through the home screen which has a search input field and a button.As the user starts typing a medicine's name, the app calls the suggest function of the backend API to get suggestions that match the pattern.The received medicine details are then shown as suggestions.The user can then select the suggestion and click on the button to pass the medicine details to the maps screen

MAP SCREEN

When the maps screen is opened, the application requests permissions to access user location.When the location is granted, the application collects the user location and starts the API call to the backend.The parameters for the API call are the ID of the medicine selected in the previous screen and the user location details.The response received from the backend is then processed and gives details of nearby pharmacies that have the required medicine in their inventory.The pharmacies are then depicted in a map using markers.When tapped on, the markers display clickable text boxes containing the name and address of the pharmacy.The application user can then click on the box to open google maps with directions.

DATABASE

Database is an abstraction of the process of asking very precise questions and obtaining sets of stored entities that satisfy some criteria.The database part of the project allows us to store, query,sort and manipulate data in various ways.

Technologies Used:

1. MySQL
2. XAMP

WEBSITE FOR MEDICAL SHOP

FRONT END

Acts as an interface between the portal user and the Django Back-End.Collects user inputs and asynchronously passes it to the Back-End and waits for its response. Modifies the data according to the response.

Technologies used:

1. HTML
2. CSS
3. JAVASCRIPT(vue.js)

Details:

The Web App pages have a streamlined and clean design. The colors are used in accordance to the color theory in design.The major pages can be divided as authentication(sign in and sign up), billing, stock management and reports pages.

AUTHENTICATION:

The sign in and sign up pages use authentication forms provided by the Django framework.

BILLING PAGE:

The Billing page handles all the sales activity by the portal user.It provide an auto suggest search field with the help of javascript.In the Billing Page, the search function suggests the medicine name when you start typing the medicine name. This is done asynchronously by the fetch API by querying the stock data.When one of the suggestions is selected, the details of that item is added to the bill form.The user can add or remove medicines, increase or decrease as well as delete the item from the bill and based ontheir actions the bill details will be changed accordingly.When the user submits the bill, the bill form is validated and then asynchronously passed to the back-end for inserting into the database.

STOCK MANAGEMENT PAGE:

The Stock Management page allows the user to manage the inventory data.The user can view and search the items in his inventory with the help of the search field.There is a form that can be used for adding as well as updating the inventory data with the help of asynchronous queries.The stock table is updated according to the changes made by the user.

REPORTS PAGE:

The Reports page shows the number and amount of sale of the day as well as the week.The page contains a list of all the bills of the user.The bills can be searched using a search field which takes either the bill id or the customers contact number.When one of the bills is selected, more details of the bill including the items are asynchronously queried and displayed.

BACK END

The backend handles all database requests and as well as major share of the processing.It implements authentication as well as routing.

Technologies Used:

1. Python
2. Django framework

Details

The backend provides authentication management by extending the framework’s default authentication system.It passes a sign in form and sign up form to the appropriate pages.There is a page called stock is for stock management. It is connected with database.The Stock page is connected to database.Report page is also connected to databaseA search option in page for searching the medicines. We get a table of medicines.