Online E-Health Care Management System.

Project 1

DESCRIPTION

Existing System

The customer goes to the shop and purchases the medicine required. So, a lot of time is wasted and the person gets tired. If he wants to exchange the product, once again he goes to the shop and replaces them. The complete process depends on the physical interactions.

Proposed System

As a result, the team decided to hire a Full Stack developer to develop a healthcare web application with a rich and user-friendly interface.
You are hired as the Full Stack Developer and are asked to develop the web application. The management team has provided you with the requirements and their business model so that you can easily arrange different components of the application.

The customer selects the required medicines and orders them by a single click. Before it, the customer needs to create a login account and fill all the details like name, address, any id no…Etc. The client can able to view the status of the medicines. The business goal for the application is to provide the medicines to all the people & admin will provide the supplier details.

Project Statement.

Create a dynamic and responsive e-healthcare web application for ordering medicines of different categories.

Features of the application:

1. Registration
2. Login
3. Payment gateway
4. Searching
5. Filtering
6. Sorting
7. Dynamic data
8. Responsive and compatible with different devices

Recommended technologies:

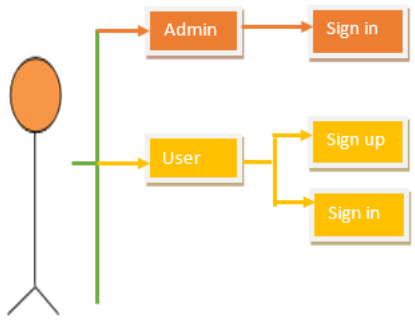
1. Frontend development: HTML5/CSS3, JavaScript using ES6 and React JS

Project development guidelines:

- The web application should be responsive and should fetch or send data dynamically without hardcoded values.

- The learner must maintain the version of the application over GitHub and every new change should be sent to the repository.
- The learner should make a rich frontend of the application, which is user-friendly and easy for the user to navigate through the application.

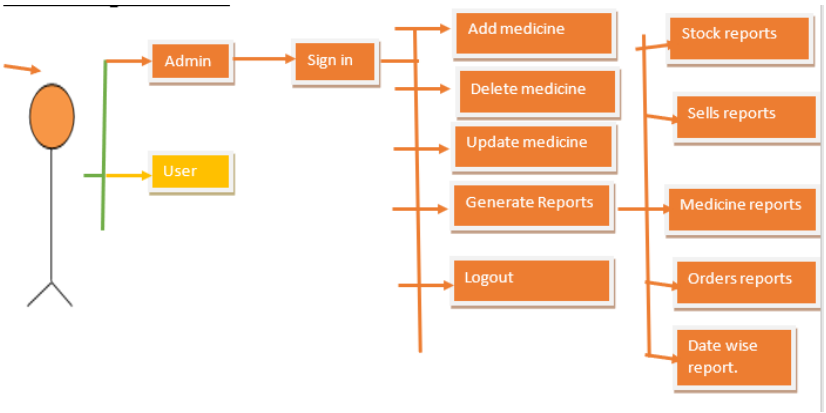
Use Case Diagram



- There will be two portals in the application, namely admin and user portal.

Admin Portal:

Use Case Diagram for Admin



Note:

1. Once anyone signs in all the operations should happen in one single page
2. Validate the form wherever required for invalid inputs

Admin Panel

- Admin will sign in with the already pre-entered credentials present in the database, if the credentials wrong show the error messages and allow admin to re-login
- After the successful login admin must be able to see the Dashboard with the following operations
    a. Add medicine
    b. Update medicine
    c. Delete medicine

d. Generate Reports
e. View customer info
f. Logout

- **Add medicine**

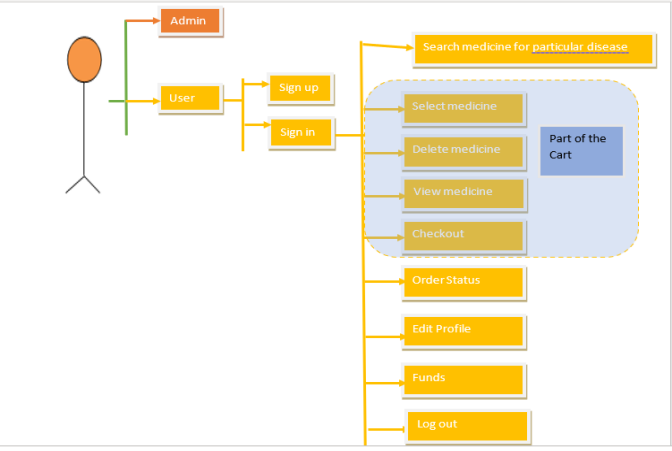
a. Admin can add the new medicine with details like medicine name, company name, price, quantity, uses and expire date with the auto-generated medicine id and etc if necessary

- **Update medicine**
    a. Admin can update the price, quantities and company name
    b. Discounts for the particular medicine if required
- **Delete medicine**
    a. Admin can delete the medicine which has no demands (zero demand in the market)
    b. If medicine expired.
- **View customer/user details**
    a. Admin can view customer details like name, contact number, address.
- **Generate Reports**
    a. Admin can view the reports that are ordered by users
    b. Admin must be able to customize the reports like
        - Stock reports
        - Sales reports
        - Medicine reports
        - Range report like
            1. Monthly reports
            2. Weekly reports
            3. yearly reports
- **Logout**

    Log out from the application

User Portal:

<u>Use Case Diagram for User</u>



User Panel

Sign up:

- User can signup entering details like firstname, lastname, email, password, dob, phone no, address and user id should be auto-generated
- Once user registers, user should able to see the auto-generated id using that user can sign in
- Once user registers there should be some default amount to purchase items like 1000.

Sign in:

- Sign in will take user id and password, on successful authentication go to the dashboard of the user else show the error messages and allow user to re-login
- If the user logs in successfully the application takes to the dashboard where the user can do the following operations:

    1. Search medicine for particular disease
    2. Select medicine to add in cart
    3. Delete medicine from the cart
    4. Update medicine quantity
    5. View items in the cart
    6. Checkout
    7. Order Status
    8. Edit Profile
    9. Funds
    10. Logout

- **Search medicine:**
    - User must able to search medicine by uses or disease
- **Select medicine:**
    - User must able to add medicine to the cart
- **Delete items:**
    - User must able to delete disease from the cart
- **Update items:**
    - User can update the quantities
- **View items in the cart:**
    - User could able to see all the items added in the cart
- **Checkout:**
    - Once all the items are selected user can checkout to order the items, which will deduct the amount if the money is present in the funds else user gets the error message insufficient amount, if the sufficient money is present in the funds, order must be placed successfully
- **Order Status:**
    - User can see the history of orders and their status like delivered, shipped, out for delivery and etc
- **Edit Profile:**

        - User must able to edit the profile like password, address, phone number, email id and etc
- **Funds:**
    - Funds will show the available amount to purchase the items
    - User can add money by entering the account number and amount, all the users will have some account number with balance in their dummy bank account.
    - The amount user adds will be added to the profile funds which is utilized at the time of ordering the items
- **Logout:**
    - Logout from the application

Note:

1. Wherever required please do the Validation using HTML5 or JavaScript
2. For styling purpose you can use CSS/CSS3 or Bootstrap or any other open source CSS framework.