***Web Application for pharmacies (PharmaCare)***:

Requirements Document (version 1.0)

**Project**: PharmaCare

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1. Project Plan

* 1. Description of the Project

PharmaCare is a web application that helps pharmacies manage their stock; provide customers with an easy way to check if a specific pharmacy have their required medicine. It will also be able to handle hospital medicine needs.

* 1. Scope of the Project

PharmaCare will simplify the process of checking the availability of medicines and supplying hospitals with needed medicines according to the agreed quantities. The system will hold record of patients and users will be able to check for the frequently purchased medicine by a customer. Customers will not need to provide pharmacists with prescriptions because hospital systems will directly publish the required prescription on PharmaCare.

2. Project Description

2.1 Project Stakeholder Scenarios

*Pharmacists*

Pharmacy member search for the requested medicine to check it is availability, insert the purchase information along with the user’s info if he/she is a new user.

*Patients (normal users)*

The user can access the web app to see if the medicine he wants is in stock then he can contact the pharmacy to make the order and can check all his/her purchase history

*Hospital employee*

Hospital employee responsible for the medicine supplies can access the web application with the hospital credentials to make an order rather than contacting the pharmacy through phone, this eliminates the human error arise from human communication.

*Doctors*

Doctors can access the web application to write patient’s prescriptions to be viewed by the pharmacy stuff rather than writing it on a paper.

2.2 Project Functions

System helps pharmacies to manage their work efficiently it allow the hospitals to request medicines to be supplied in an automated manner and eliminate the delay arise from contacting the pharmacies through phones to ask whether the required medicine is available or not and it keep track from all the purchases made by customers.

3. Project Requirements

3.1 User Requirements

1. View available medicines.
2. Search for medicines.
3. Easy to fill out forms with drop downs and check boxes
4. Short concise content

3.2 Functional Requirements

* System shall allow admins to add new users.
* System shall allow users to login with their credentials provided by the system admins.
* System shall view all available medicines.
* System shall allow user to search for medicines.
* System shall view all medicines out of stock.
* System shall allow admins to view the quantities of the available medicines.
* System shall be connected to hospital entities.
* System shall allow Hospital entities to request medicines from the pharmacy.
* System shall store customer information (name, address, phone number).
* System shall store all medicines purchases by customers.
* System shall view patient’s prescriptions provided by the related hospital entity.

**3.3 Non-functional Requirements**

1. **Performance**

* Web pages shall not take more than 4 seconds 90% of the time in normal network conditions.
* Search process shall not take more than 5 seconds to retrieve data.
* System shall serve multiple requests concurrently without failure.
* Login process shall not take more than 3 seconds in normal network conditions.

1. **Security**

* only users with valid username and password can access their profiles and purchases history
* All passwords shall be encrypted in the database.
* No normal user is allowed to view other user’s prescriptions of purchases history.

1. **Scalability**

* System must support one-hundred hospital entity.
* System must support 10000 normal user.
* System must support 500 users logged in concurrently.

1. **Reliability**

* Medicines records must be updated instantly.
* All system records must be backed up every 2 days.
* System shall revert any action taken in case of a failed process

1. **Availability**

* System shall be available 90% of the time.

3.4 User Interface Requirements

**3.4.1 Web pages**

* Home page (all available medicines)
* Login page
* One medicine information page
* User profile and purchases history page
* User’s prescriptions page
* Hospital’s orders page
* Add user page
* User purchase page

4. High-Level Technology Architecture

* HTML, CSS, JavaScript
* Native PHP
* MySQL database

5. Maintenance and Support

* Server admin will support server and Internet connection.
* Programmer shall support code and upgrades.