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Project Report for Pharmacy Management System

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Introduction

The software that we plan to create is an electronic point of sale (EPOS) system that will also control other operational areas of a pharmacy or drug store. Given that massive chain pharmacy stores have already spread We want to provide services to those small pharmacies that use management systems. have not yet shifted to using technology tools. Our goal is to take an Our nation is one step closer to going digital. The software requirements specification for is represented.

In this document, the aforementioned item, which will include all necessary details for instance, user needs, restrictions, presumptions, risk definitions, etc.

Product Scope and Overall description

The main objective of this program is to digitalize the majority of the manual processes carried out by pharmacies. The usage of technology will increase the process' efficiency and convenience for the users who previously completed all of this on paper. This will give the entire process an increased sense of dependability and robustness. Our main focus will be on the most important aspects only, keeping the production costs low because single pharmacies might be less likely to invest in such a product. In order to prevent the customer from being dissuaded from spending in the initial setup, it also follows that maintenance costs should be kept to a minimal.

Our software project is a web application called a pharmacy management system. It's not entirely a new product. There are some pharmacy management systems available on the market, but their prices are way out of line with their maintenance costs. Because of this, only a small portion of pharmacy stores use those management systems. Our goal is to keep the cost of this product as low as possible. Therefore, we will only include the most crucial features.

The software will be created in accordance with user requirements. A pharmacist must locate the medication, check the expiration date, confirm that the product is OTC (over-the-counter or not), record sales, manage inventory after sales to keep track of short supplies, order supplies, and keep track of any expiring products. A manager is responsible for overseeing all of the staff, total sales, the individual sales of each pharmacist, managing inventory, adding new products, employees, and suppliers, as well as having the ability to act as a pharmacist when necessary. It is necessary for the pharmacy as a whole to keep track of every customer who purchases products. Keep track of customer accounts (name, phone number, and address, if applicable) to track them. Some customers may return or exchange the product. Others may pay with cash or a credit card.

This program is a web application that can be used with any browser. The web application is anticipated to be hosted on an internal Apache server (located on the hardware) or on any online server to allow for global access. Depending on what the user needs, the hosting will be chosen. This software can be used from any OS that has a browser because it is web-based (Google Chrome, Microsoft Edge, Firefox preferable). The UI may not be as appealing as it should be on small devices due to the software's design and nature, as there will be numerous features, buttons, and pieces of information on every page. For a better user

experience and convenience, the pharmacy shops must use a desktop PC, laptop, or notebook to operate this software. Small devices shouldn't be used with this software.

If the user chooses to use online database services, the system will need to be connected to the internet because all data will be retrieved from the database via the internet. We have to finish the software before the end of this semester.

We can assume that the user will have an operating system-equipped computer with an internet connection. The computer needs to be able to run the necessary software, such as an internet browser and web server software. We assume that the user can operate a computer and use the internet through a web browser because the application is web-based. Since the names of the medications and all of the software's instructions are in English, we assume that the user is fluent in the language.

User Story

Functional Requirements:

Use Case 1:

As a User, I want to log in to the system.

- Confirmation: After providing username and Password.
Success: The user is valid and the dashboard page is loaded.
Failure: Displays 'wrong credentials' so the user can try again.

Use Case 2:

As a User, I want to register a new manager or pharmacist in to the system.

- Confirmation: After providing username, full name, last name, email, phone no., date-of-birth, salary, join-date, home address and Password.
Success: email and confirm password validated and the new user will be proceeded to the login page to get logged in with his/her new username and password to go to the dashboard.
Failure: Displays 'invalid email' if the email is not a correct email format and displays 'password didn't match' if the password and confirm password doesn't match so the user can try again.

Use Case 3:

As a User, I want to see relevant information about the pharmacy.

- Confirmation: From the different sections of the application the user can see different information.
Home: Total sales, Number of medicine companies, Total number of medicines, number of expired medicines.
Medicines: Medicine name, expiry date, stock amount, Shelf no, and price.
Shortage: Medicines that are running low on stock will be listed here.
Companies: All the information about the medicine companies that deal with the pharmacy will be found here.
Employees: the user can access information about all the employees i.e. (Phone number, salary, email, and address).

Use Case 4:

As a user, I want to edit existing data and add new data also I want to delete existing data if I want.

- Confirmation: All the information the user can see, he can also update them, can add new information, and if wishes delete them.
Normal users: can add new medicines, update information about the existing ones and delete the existing ones. These alterations can be done to the information of the medicine companies and their Suppliers.

Use Case 5:

As a user, I want to live search for medicines present in the store.

- Confirmation: In the medicine section user can Live search for medicines.
By Name: we can search for a medicine by typing in its real name.

Other Functionalities:

- Cookie handling: while login if the user selects 'remember me' the 2 cookies will be set for 1 day for username and password. Upon logout the 2 cookies expiration date set to one hour ago to delete the cookies.
- Session handling: while login session will start and 2 session variables will be created named \$_SESSION['username'] and \$_SESSION['success'] and upon logout the session variables will be destroyed. If the user tries to go to any page in the system without login the system will detect no session variable and redirect the use to the login page.
- Google maps implementation: We tried to implement the google maps JavaScript api but couldn't work on it because of the google cloud billing system as we do not have any credit card.
- Sql injection protection: To prevent unauthorized login by Sql injection we added extra code in login.php.

Project Development Plan:

- For Front-end development we have used HTML, CSS and JavaScript
- For back-end development we have used php and MySQL innnoDB.

Feature Pages in Our Project:

- Login page
- Register page
- Dashboard/home page
- Medicines Search page
- Update Medicines Page
- Employee's description and update page
- Companies' description and update page
- Suppliers' description and update page

Hosting the website:

We have hosted our project on <https://www.000webhost.com/>. And the URL for our website is <http://cse482pharmacy.000webhostapp.com/>.

Hosting procedure:

- At first, we had to make an account on 000webhost and our account information is
Email: sadmankabir2@gmail.com
Password: Sadman331@
- After login we go to manage website and go to file manager and upload all our project files there.
- For the database we go to the database manager and create a new database and import our project database there. The database information:
`$db_server = "localhost";`
`$db_user = "id20008201_sadmanarnob";`
`$db_pass = "Sadmanarnob1811@";`
`$db_name = "id20008201_pharmacymanagementsystem";`

Google Page evaluation

(<https://developers.google.com/speed/pagespeed/insights/>)

For Dashboard page with session handling removed.

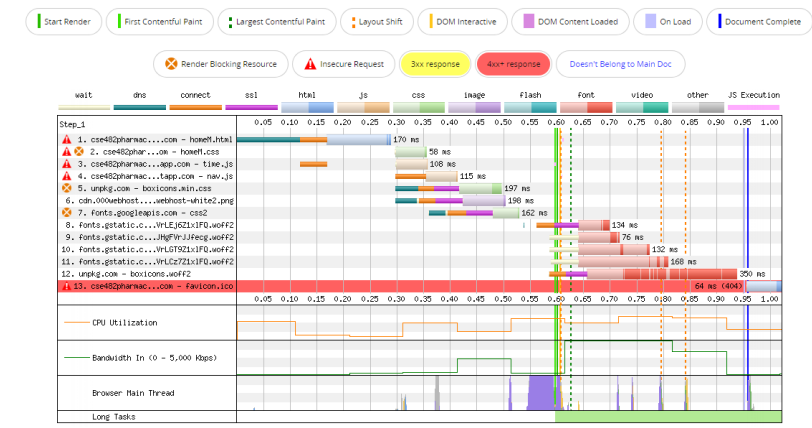
- Mobile Performance 91/100, Accessibility 100/100, Best practices 75/100
- Desktop Performance 98/100, Accessibility 100/100, Best practices 83/100

WebPageTest evaluation

(<https://www.webpagetest.org/>)

For Dashboard page with session handling removed.

Waterfall View



Took 1 sec on average to open dashboard page.