File Structures Mini-Project Report

A Mini-Project Report
Submitted in partial fulfillment of the requirements for the degree of
Bachelor of Engineering
in
Information Science and Engineering

by

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Declaration

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24 August 2021

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We declare that We have properly and accurately acknowledged all sources used in the production of this report. We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be a cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Abstract

In a Pharmacy, usually all the activities are carried out manually,but it is not suitable when we need to store large data. If we are using a software, all the data related to inventory management,view and modification of stocks,sales,billing are permanently stored in storage file. This software is developed mainly for pharmacist and it is easy to use and maintain, this software is also quick, reliable and accurate.

Table of Contents

Chapter 1

Introduction

Pharmacy management system stores data and enables functionality that organizes and maintains the medication use process within pharmacies.These are independent technology for pharmacy's use only.It is designed to improve accuracy and efficiency in pharmaceutical store.

The main aim of pharmacy management system is to assist pharmacist in the safe and effective delivery of pharmaceutical drugs.The pharmacists can maintain record related to stocks and sales through pharmacy management system.The user can control the buying and selling process,view and manipulate the stocks.The user can also generate the bills after the transaction completes.

1.1 Objective

The platform provides the following features:

- View and Update the stocks
- Billing
- Sales Report
- Search Receipt
- Overall Inventory Management

1.2 Scope of the Project

As far as existing system have established an understanding of how useful web platform is to use for a common man. However, efforts have to be made to make local Pharmacies to digitize the business on the online platform.

The Scope of this project is to develop an Web Application using the concept of File Structures (Variable Length), which makes user to run it on a simple browser which is user-friendly in the current era and it is very easy for the browser to send and receive data over the internet.

Chapter 2

Literature Review

The main aim of Pharmacy Management System is to manage all records and transactions within the inventory and managing of sales.Traditional way of managing inventory is carried out manually. But, errors stills exists even if we are using software for managing the activities in the Pharmacy. In order to improve the accuracy people started to use Auto ID technologies.

In EPC global report,Auto ID technologies are defined as host of technologies that are used to help machines to identify objects.For Pharmacist,IT can enable the storage of structured sales report,structured patient records, facilitate the electronic prescribing, dispensing and administration of medicines, automate the handling of medicines in the supply chain and provide tools for monitoring the efficient and safety of medicines in use.

IT can therefore improve patient safety, enable professionals to provide high quality care and help patients make the most of their medicines.Pharmacists are already using IT systems to support their daily work and, when considering the IT requirements for emerging working practices, pharmacists should consider what functions could be provided by systems that they already use.

Chapter 3

Problem Formulation and Proposed Solution

3.1 Problem Statement

In pharmacy all the data related to inventory,sales,stocks and billings are kept in paper record, managing all these records is difficult task. Time required to manage all these activities are considerably high. In order to overcome these problems, we can use Pharmacy Management System. The role of Information Technology in Pharmacy practice is dynamic and not likely to lose relevance in the coming years. Pharmacists are interested in Information Technology because it increases efficiency in our daily tasks and improves the accessing of information stored.

Users of Pharmacy computer systems are generally limited to Pharmacy staff members, who are given usernames and passwords to access the system to ensure Data Protection. This allows the employer to prevent unauthorized access to protected health information and keep a record of who performed each task in case an error occurs. Pharmacy staff should protect their usernames and passwords and avoid giving them out to unauthorized individuals. Backup and maintenance of pharmacy computer systems are essential to the continued function of the system

3.2 Methodology

- Flask:Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports

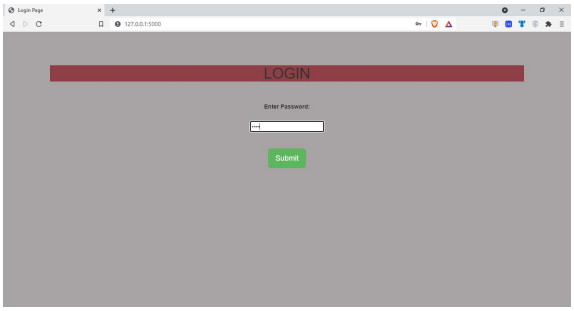
extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools.. Flask uses jinja template library to render templates, jinja is configured to auto escape any data that is rendered in HTML template

- Bootstrap :Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.Bootstrap is a HTML, CSS JS Library that focuses on simplifying the development of informative web pages. The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result is a uniform appearance for prose, tables and form elements across web browsers. In addition, developers can take advantage of CSS classes defined in Bootstrap to further customize the appearance of their contents. For example, Bootstrap has provisioned for light- and dark-colored tables, page headings, more prominent pull quotes, and text with a highlight.

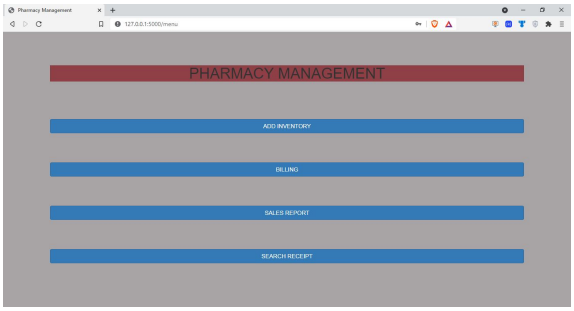
Chapter 4

Result and Discussion

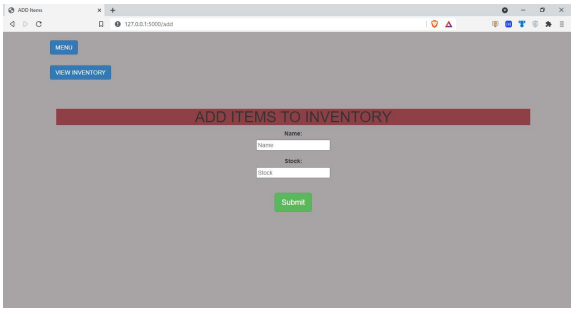
Effective implementation of this software will take care of the basic requirements of the Pharmacy Management System because it is capable of providing easy and effective storage of information related to Pharmacy activities.



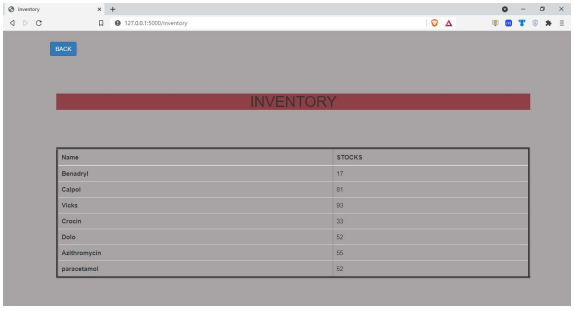
(a) Login page



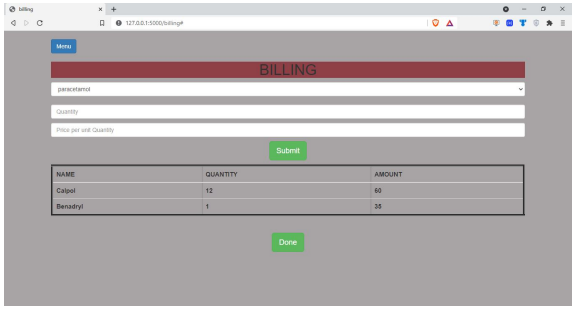
(b) Menu



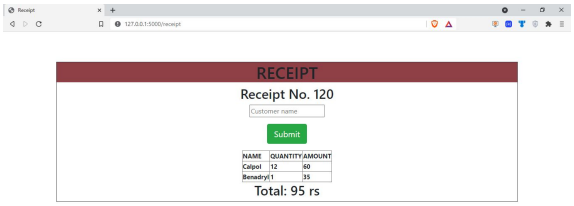
(a) Add



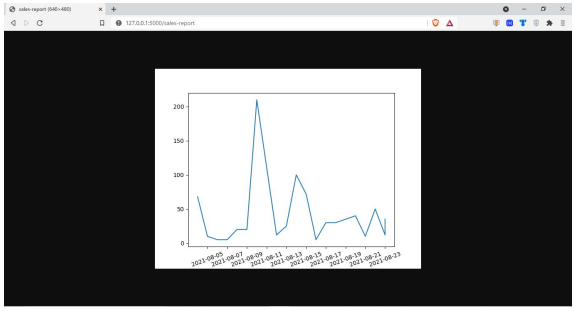
(b) Inventory



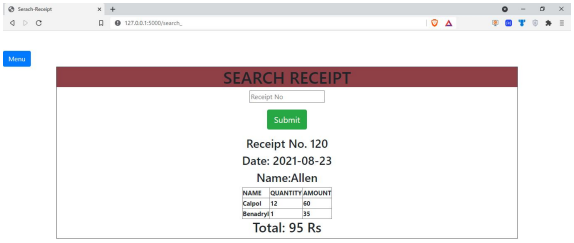
(a) Billing



(b) Receipt



(a) Sales Report



(b) Search Receipt

Chapter 5

Conclusion and Future Work

In this section of the report we finally conclude that using Pharmacy Management System is a very reliable, accurate,easy backup and time saving Software.

5.1 Conclusion

In Conclusion we would like to state that this software enhances the Pharmacy work culture by eliminating the human-time consuming and tedious tasks, which can be done by this software .

This system as the ability to keep track of records of the products stocks and sale.The main purpose is effectively and easily handling of pharmacy data and it's management.

5.2 Future Work

In addition to the existing project, we look forward to reaching many people by making it Open Source.

It can be done by hosting this project on a cloud server like Heroku. Since we are using a text document to store the data it can be placed in a scalable object storage like Amazon S3 and then a Data Pipeline can be built between them.