CHAPTER 1

INTRODUCTION

1.1 Client / Organization Profile :

Name : Bramhecha Vrundavan Medical

Location : Shop No. 4 Kusum Vrundavan Hights, Lasalgaon, Nashik - 422306

About Organization : Chemists play a key role in our lives at the time of illness. By offering almost all kinds of medicines, they have become the lifeline for many. Apart from medicines, they also sell products for skin and health care. Chemists also called pharmacists, are found in every comer of the city. Some of them often have tie-ups with big doctors and hospitals. If you need medicine for your first aid kit or want to buy medicine prescribed by your doctor, you should get in contact with Bramhecha Medical Stores in Lasalgaon, Nashik

1.2 Abstract :

The project titled "**Online Medicine Shop**" which is going to keep track all the details of products available in shop. It will contain two modules i.e. Customer, Products. It has different sections for different categories of products like Tablets, Liquid, Capsules, Drops, Injections, etc. It will allocate products into the specific categories according to the product. It will keep track record of the orders and payments.

1.3 Existing System & Need for System :

1.3.1 Existing System :

1.3.1.1 Manual Record-keeping : The existing system heavily relies on manual methods for managing store-related activities, including stocks accommodation, available brands etc., and maintenance records. This manual approach consumes a significant amount of time and effort, making the overall process cumbersome and prone to errors.

1.3.1.2 Lack of Centralized Data : Without a centralized system, accessing and retrieving crucial information becomes a time-consuming task. Administrators face difficulties in quickly retrieving records, managing availability, and generating reports, leading to inefficiencies and delays in decision-making.

1.3.1.3 Communication Gap : The unavailability of an integrated communication platform hinders effective communication between administrators, clients, and staff members. Vital announcements, updates, and notifications often get lost or delayed, resulting in miscommunication, and reduced operational transparency.

1.3.1.4 Resource Intensive : The traditional system necessitates the employment of additional personnel to handle the administrative tasks manually. This not only increases operational costs but also adds to the workload and dependency on manual processes, leading to a higher probability of errors and delays.

1.3.2 Need for the system :

1.3.2.1 Streamlined Operations : The Online Medicine Shop automates and streamlines various administrative processes, ranging from staff registration and resource allocation to management and maintenance requests. By eliminating manual paperwork and minimizing human intervention, the system significantly reduces the time and effort required for day-to-day operations.

1.3.2.2 Centralized Database : The system employs a centralized database to store and manage all Medicine Shop data. This allows administrators to access real-time information, including staff records, resource availability, fee payment status, and maintenance requests, ensuring faster decision-making and enhanced operational efficiency.

1.3.2.3 Seamless Communication : With the Online Medicine Shop, administrators, clients, and staff members can communicate effortlessly through a dedicated platform. Announcements, circulars, and important updates can be disseminated instantly, ensuring effective communication channels, and reducing the chances of miscommunication.

1.3.2.4 Cost-Effectiveness : By replacing manual processes with an automated system, the Online Medicine Shop offers a cost-effective solution. It reduces the need for additional personnel, minimizes paperwork, and optimizes resource allocation, resulting in long-term cost savings and improved financial management.

1.4 Scope & Feasibility of work :

1.4.1 Scope of work :

In the context of the Online Medicine Shop project, the scope of work entails addressing the specific needs and challenges faced by store administrators in efficiently managing facilities. The proposed system will be a mobile application that provides comprehensive functionalities for store management.

1.4.1.1 User Login and Access : Clients, and administrative staff will have their own login credentials to access the system. Different roles will have varying levels of access to ensure secure and controlled information flow.

1.4.1.2 Resource Allocation and Management : The system will facilitate the allocation and management of resources. It will provide an interface for administrators to assign customer to specific Products, manage product availability, and handle transfers as needed.

1.4.1.3 Billing and Payment Management : The system will incorporate functionality for managing product fee billing and payment processes. It will generate invoices, track payment records, and send notifications to client regarding payment.

1.4.1.4 Complaints and Maintenance Requests : The system will provide a mechanism for client to submit complaints or maintenance requests related to their services accommodations. Administrators can efficiently manage and track these requests, ensuring timely resolution.

1.4.2 Feasibility of work :

1.4.2.1 Technical Feasibility :

The proposed Online Medicine Shop will be developed using modern web technologies such as HTML5, CSS3 (Tailwind CSS), and JavaScript for the front-end, and JavaScript for the back-end. It will require a web server, such as EXPO, to serve user requests. The system will be compatible with popular operating systems, including Android, iOS, Windows, Linux, and macOS. The necessary hardware and software components are readily available in the market, making the system technically feasible.

1.4.2.2 Operational Feasibility :

The proposed system will provide practical solutions to address the operational challenges faced by administrators. It will offer user-friendly interfaces for clients, and staff members to easily navigate and perform their respective tasks. The system will streamline processes such as timetable management, tracking, resource allocation, billing, and complaint handling. Its operational feasibility lies in its ability to enhance efficiency, simplify tasks, and improve overall Medicine Shop management.

1.5 Operational Environment – Hardware & Software :

1.5.1 Client-side System Specification :

1.5.1.1 Hardware :

Item name	Specification
Laptop / Desktop	Minimum Intel Core i3 or above Minimum RAM: 1 GB or more Minimum Hard disk: 1 GB free space (optional)

1.5.1.2 Software :

Particular	Specification
Operating System	Minimum Windows 7 or above / Minimum Linux 6.1 or above / Minimum Mac OS X 10.1 or above
Browsers	Google chrome 5 or higher / Mozilla Firefox 4 or higher / Microsoft Edge 105.0.1343.27 or higher

1.5.2 Server-Side System Specification :

1.5.2.1 Hardware :

Item name	Specification
Laptop / Desktop	Intel CORE i7, 8th Gen RAM: 8 GB SSD: 1 GB Hard disk: 2 TB

1.5.2.2 Software :

Server	Expo
Database	FireBase
Browser	Google Chrome

1.5.3 Developer-Side System Specification :

1.5.3.1 Hardware :

Item name	Specification
Laptop / Desktop	Intel CORE i5, 8th Gen RAM: 4 GB SSD: 128 GB

1.5.3.2 Software :

Particular	Specification
Operating System	Windows 10, Intel CORE i5
Documentation	Microsoft office 2013 or higher
Browser	Google chrome 5 or higher
Text editor	Notepad

1.6 Detail Description of Technology Used :

- **HTML (Version: HTML5)**

  It stands for Hyper Text Markup Language which is used to add basic structure to web pages. HTML is used to develop the web pages. HTML provides the building the block of the webpage. Other than that HTML is very useful in building and connecting multiple pages. HTML uses mark-up to annotate text, images, and other content. HTML tags are used to build the block of the web page.

- **CSS (Version: CSS3)**

  It stands for Cascading Style Sheets which is used to make web sites more attractive and beautiful web pages. It is used to design the page and to create animation as well. It used to for describing the presentation of a document written in mark-up language such as HTML or XHTML. It is a corner store technology of the World Wide Web, alongside HTML and JavaScript. CSS was

developed by World Wide Web Consortium (W3C). It provides more flexibility and control to the HTML tags and content.

- **JavaScript (Version: ES022)**

  It is a scripting language. It was developed by Brendan Eich of Netscape. It is one of the most popular languages in 2022. It is used to make web pages more interactive and used to create web application as well as games and mobile application. JavaScript is used to program the behaviour of the web page. All major web browsers have a dedicated JavaScript engine to execute the code on user's device.

- **FireBase (10.7.1)**

  Firebase provides a secure and easy way for users to sign into their app. Developers can use Firebase Authentication to support email and password login, Google Sign-In, Facebook Login and more.

  The Firebase Realtime Database is a cloud-hosted NoSQL database that lets organizations store and sync data in real time across all of their users' devices. This makes it easy to build apps that are always up to date, even when users are offline.

  Firebase Cloud Messaging (FCM) is a service that lets businesses send messages to their users' devices, even if they're not using the app. Developers can use FCM to send push notifications, update app content, and more.

  Firebase Crashlytics is a service that helps organizations track and fix crashes in their app. Crashlytics provides detailed reports on crashes, so they can quickly identify the root cause and fix the problem.