Software Requirements Specification

For

Tablet Table

Version 1.0 approved

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Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The purpose of this Software Requirements Specification (SRS) document is to provide a detailed description of the requirements for the 'Tablet Table' web application. It will illustrate the purpose and complete declaration for the
Development of system. It focuses on collecting and analyzing detail information of medicine (tablets/syrups) includes specification of medicines such as power of medicine, proper dose of medicine, effect of overdose, effect if perticular dose is missed, proper quantity of dose to be taken for kids & adults. It also includes different language translator for ease of understanding.

It defines how customer analyzes functionality of product.

The purpose of this document is to give a detailed description of the requirements for the 'Tablet Table' web application. It will illustrate the purpose and complete declaration for the
Development of system.

1.2 Document Conventions

- Entire document should be justified.
- Convention for Main title

  Font face: calibri

  Font style: Bold Font Size: 14
- Convention for Sub title

  Font face: calibri

  Font style: Bold Font Size: 12
- Convention for body

  Font face: calibri

  Font Size: 12

The following are the list Definitions, Acronyms and Abbreviations used in the Document.

Administrator	A log in Id representing the user with user administration privileges To Software.
User	Intend user of Software.
Sql	(Structured Query language).used To perform CRUD operations on Database.
PHP	Coding language.
User interface	Something through which user communicate with system.
ER	Entity Relationship
UML	Unified Modelling Language
JAVA	Platform independent language

1.3 Intended Audience and Reading Suggestions

This document is intended to read by:
Software Developers: Software Developers which leads to follow particular rules and constraints while developing system.
Project manager: It will help project manager to gather particular requirements from users as well as doctors sides.
Database Manager: Database Manager is intended to read the document to understand proper handling of data repository.

This document is also written for the researchers, advanced practitioners, documentation writers, and users involved in seeking information about medicines.

In the next section, system features with their functional requirements are presented to highlight the major services provided by the intended product. Then the external interface requirements highlighting the logical characteristics of each interface between the software product and the users are discussed. Finally, this specification is concluded with the reference documents on which this document is based on.

1.4 Product Scope

Tablet Table focuses on collecting and analyzing detail information of medicine (tablets/syrups) includes specification of medicines such as power of medicine, proper dose of medicine, effect of overdose, effect if particular dose is missed, proper quantity of dose to be taken for kids & adults. It also includes different language translator for ease of understanding.

As this is generic software it can be used by a wide variety of outlets (Retailers and Wholesalers) to automate the process of manually maintaining the records related to the subject of maintaining the stock and cash flows.

1.5 References

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  - "Tylenol, Tylenol Infants' Drops (acetaminophen) dosing, indications, interactions, adverse effects, and more". Medscape Reference. WebMD. Archived from the original on 14 April 2014. Retrieved 10 May 2014.
- Books
  - Software Requirements and Specifications: A Lexicon of Practice, Principles and Prejudices (ACM Press) by Michael Jackson
  - Software Requirements (Microsoft) Second EditionBy Karl E. Wiegers
  - Software Engineering: A Practitioner’s Approach Fifth Edition By Roger S. Pressman

2. Overall Description

2.1 Product Perspective

This document outlines the software requirements for the medicine system. It describes the functional and non-functional requirements, modeling requirements, diagrams and user profiles of the proposed system.

The tablet table enables to maintain computerized Record Of medicines which includes syrups and tablets. It also include data of extended information of each tablet and for the user sake it involves language translator. This SRS provides detailed information on the internal and external view of the system as well as interfaces required by management System.

2.2 Product Functions

The accompanying list of function descriptions clarifies the significant features of Online Plant Nursery System.

1. Account Registration

The account registration function allows users to create secure accounts. The users can create account using their email address or mobile numbers both of which are verified and a password. The account will store users name, password and city.

2. Account Login

The account login function will be necessary for users to access their accounts using which they can search for medicines, translate their details and check for nearest hospitals.

3. Search for Medicine

The system will allow the user to enter the keywords to search for a particular medicine in the search bar. The user can also select multiple categorizations to assist him and narrow down on a particular medicine.

4. Translate Details

The user will be provided with different languages such as Hindi, Marathi and English for ease of understanding.

5. Nearest Medical or Hospital

It allows user to find nearest pharmacy or hospital for particular medicine.

6. Check details

The doctor can check the details admin is adding about particular medicine. Doctor should be certified and the error or problems doctor found should be sent to the admin.

7. Add new Medicines

Add to cart option allows users to save new medines name with its details after checking from doctor medicines can be added to database with its details.

8. Delete from database

The products added to the database can later on be deleted by admin as medicines get banned or outdated.

9. Medicine Recommendations

Based on the medicine currently being viewed by the user, system will recommend various other categories of medicine like other taken together with.

10. Individual User profiles

The users will be provided with their public profiles with their name which will be displayed to other users when the post a review about certain products. The users will be able to change their city and password whenever required.

11. Help Page

The help pages will provide information to the users about all the functionality mentioned above. The help will have various categories of help topics to allow user to easily navigate to their area of concern.

2.3 User Classes and Characteristics

The user must have some prior knowledge about navigating through a website and the account registration and login procedure. Users familiar with online banking and having credit cards can make you use of the online payment functionality.

2.4 Operating Environment

The following is the minimum hardware configuration required for a computer using Online Plant Nursery System:

- Pentium Processor
- 32 MB of free memory
- 128 MB of RAM
- Internet Connection with speed 512 KB/Second

Software Configuration:

- Operating System: Windows(7/8/10), Mac OS, Linux
- Web Browser: Internet Explorer (8.0 or above), Mozilla Firefox, Google Chrome etc.

2.5 Design and Implementation Constraints

The challenges in developing the product include detailed data of medicines which will result into important pillar of the system. Detailed data of system can be acquired only by trusted and authorized doctors whose certification is important as well.

Virtualization of system comes with different scenarios which admin has to face such as outdated data to be delegated or banned on particular medicines. Information should be completely authorized as it results into used data by various types of users such as consumers or patients.

Each effect and power of medicine should be properly defined as it is the important part of the system where user has to deal with medicines he has. Language translator is used which will help user for better understanding of system as well as symptoms can be completely understood.

2.6 User Documentation

Along with the software product, a user manual would be written to help people understand the working methodology and usage of the developed prototype system. It would be written for nontechnical individuals and the level of content or terminology would differ considerably from, for example, a System Administration Guide, which is more detailed and complex. The user manual would follow common user documentation styles capturing purpose and scope of the product along with key system features and operations; step-by-step instructions for using the system including conventions, messaging structures, quick references, tips for errors and malfunctions; pointers to reference documents; and glossary of terms

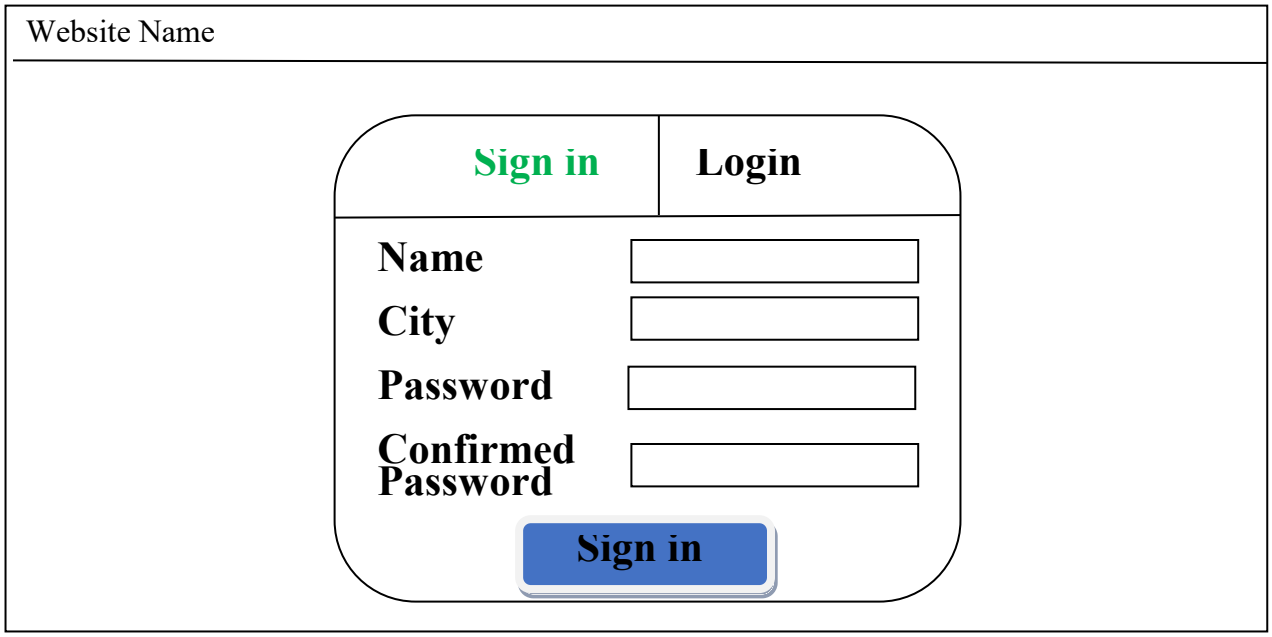
2.7 Assumptions and Dependencies

The product would build on leveraging existing systems. In this regard, necessary inspirations could be obtained by analyzing related systems such as 1mg, drugs and medicines. In particular, the design and implementation approach of medicines could be helpful to draw a clear guideline for developing the intended prototype.

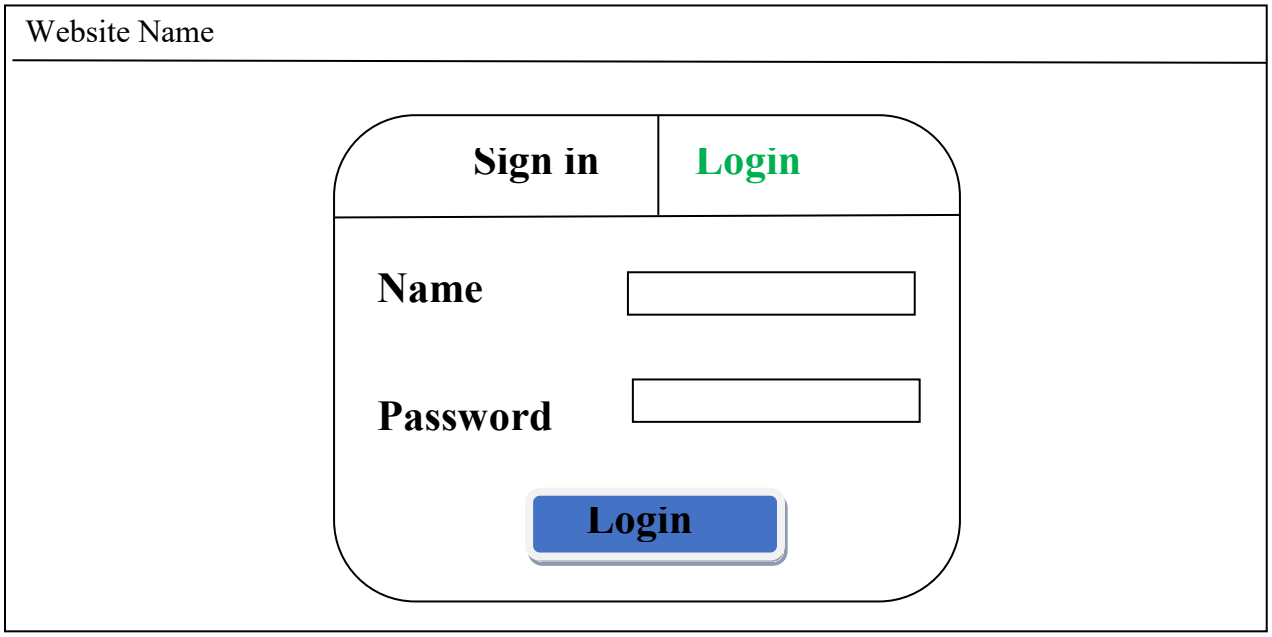
2.8 User Interfaces

This section describes the logical characteristics of each interface between the intended software product and the users. For user interface design, common GUI standards will be followed along with the presence of keyboard shortcuts, error message display standards etc., and standard buttons and functions (i.e. help) will appear on every screen. Details of the user interface design are intended to be documented in a separate user interface specification

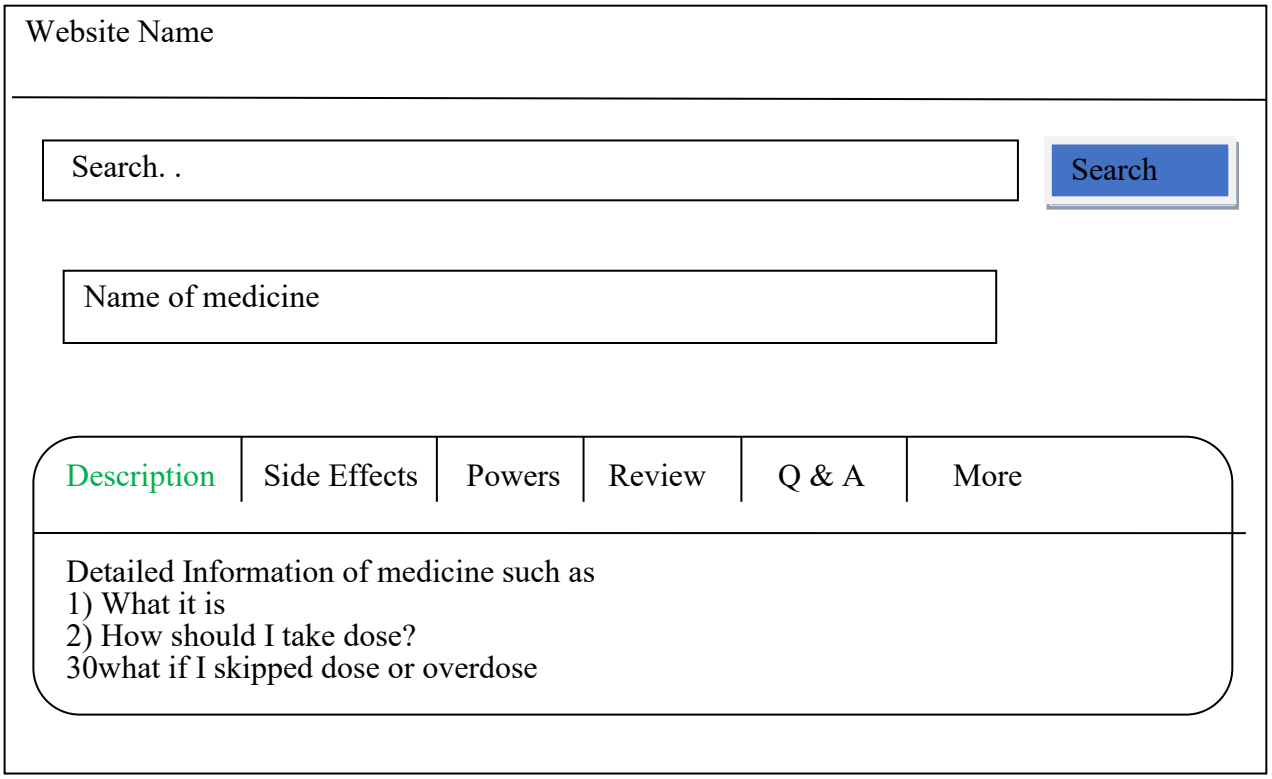
2.8.1 Registration



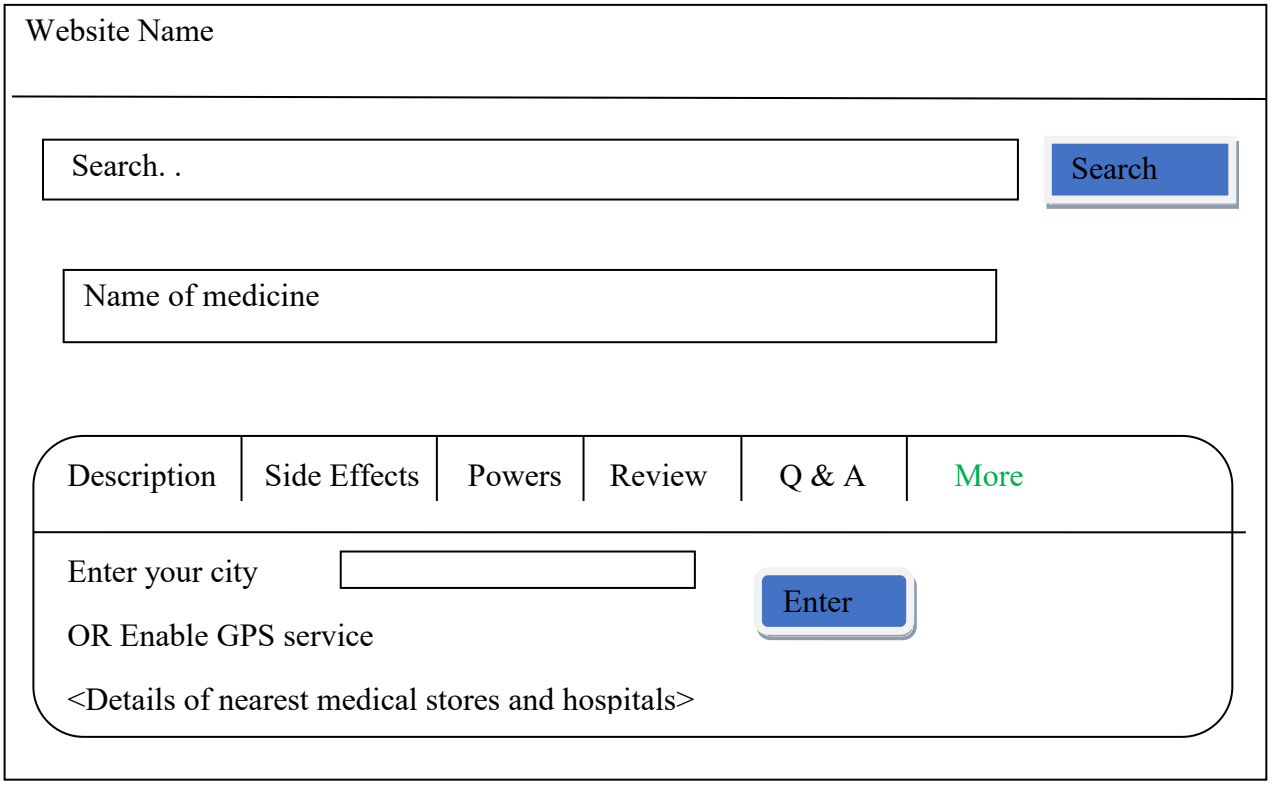
2.8.2 Login



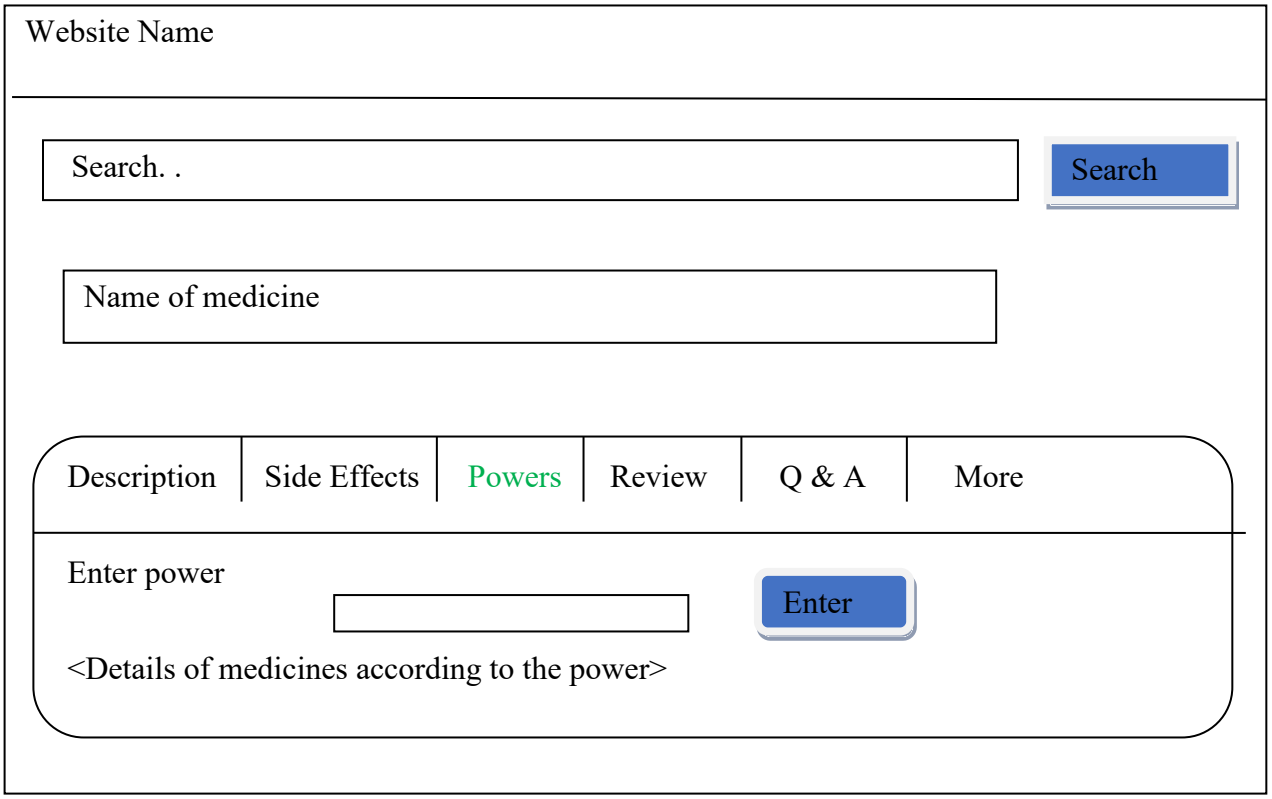
2.8.3 Search Medicine



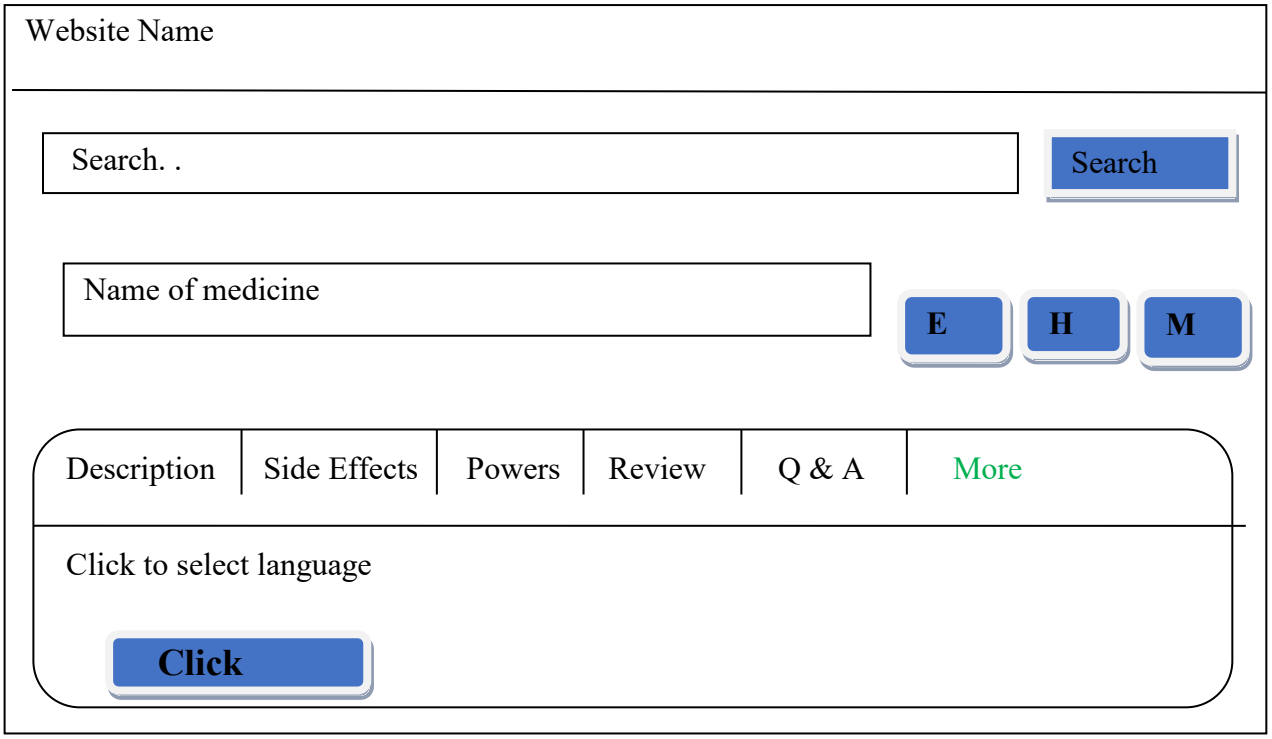
2.8.4 Display nearest Hospital or medical store



2.8.5 Check power of medicine



2.8.6 Translator



2.9 Hardware Interfaces

The machine on which user operates has to make search of particular medicine. As the process is complexly automated and focuses on virtualization more than physical components. Medical information can be viewed on user's handheld device which will connect the system only if there is proper internet connection. Communication between user and system is quite easy to handle as some cursor clicks result into intended data to open.

2.10 Software Interfaces

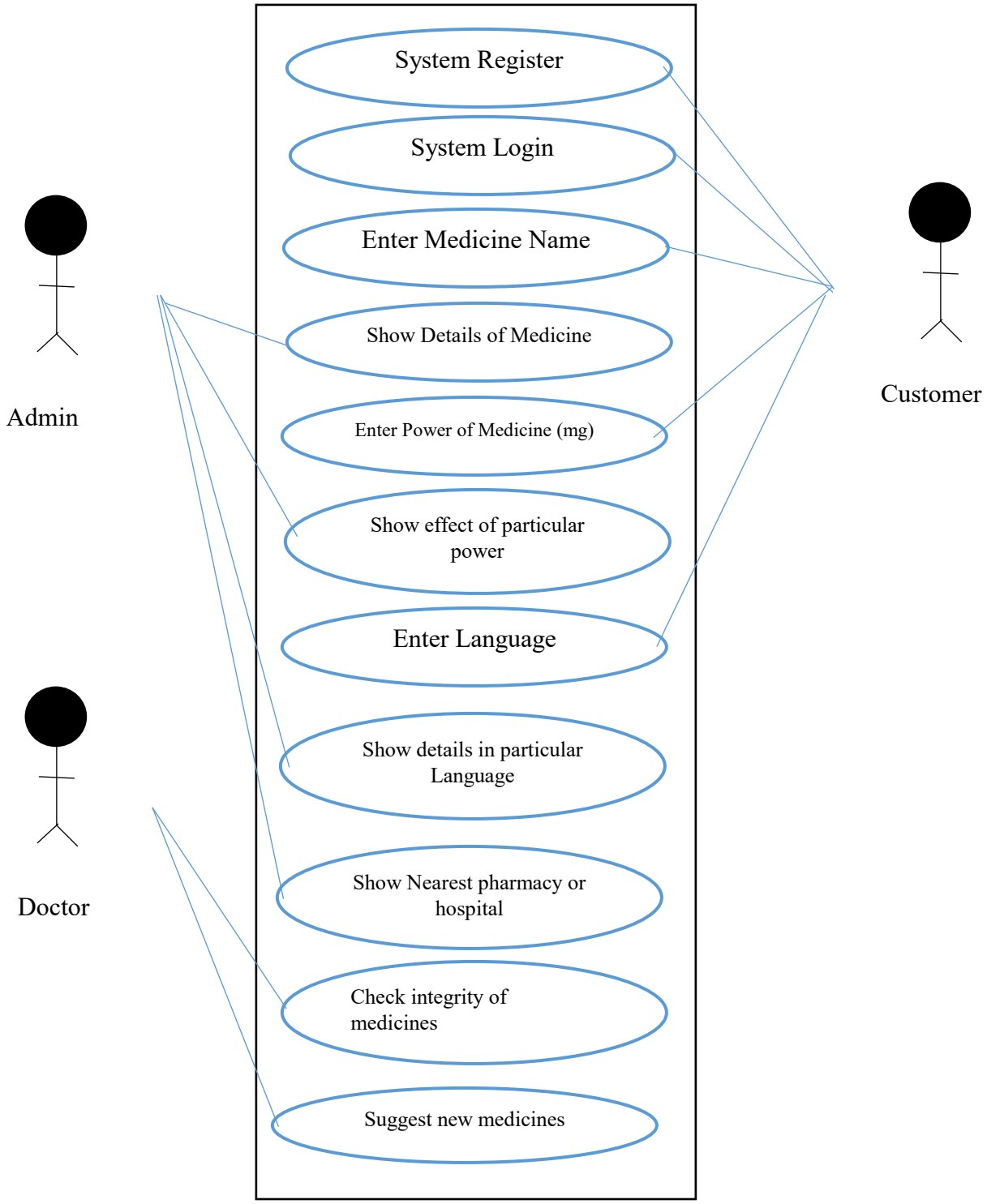
This software provides connection between user and medical store. It can work on operation system such as Windows xp, windows 7, 8 and onwards. For the programming interface php and java is used. Particularly php deals with user interface to provide in the backend sql database is used w hich stores detail data of each user,medicies and login credentials of admin.There is separate different table for each.

2.11 Communications Interfaces

As mentioned earlier, the intended product to exploit existing Web service technologies to leverage existing infrastructures through building an overlay. The communication among software component would be performed through message passing over the IP network. From a technical point of view, TCP/IP will be used as the transport protocol, where server establishes a TCP connection to the network elements using a well-known port number. Messages can then be sent bi-directionally between the server and network elements. All messages consist of a fixed length-header containing the total data length and a request followed by a reply or an acknowledgement. Interaction among surrogates will be performed using HTTP or FTP.

3. System Features

Tablet Table system is mainly designed for customers who requires detailed description of medicines. After putting name of the medicine its description includes several parts which are explained follow. It also provides different features which helps user to connect to the system.



Use Case diagram of tablet table system

3.1 Registration

3.1.1 Description and Priority

This feature allows a new User to register with the online portal. The frequency of use is Medium, whereas the feature is of high priority and must be implemented.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor	System
1. Actor hit on sign up option	
	2. System shows details to be filled such as name, password and city
3. Actor fill the details and hit on register button	
	4. System accept data and show message as “Registered”

Alternate Flow:

1 System shows details to be filled such as name, password and city.

1.1 Redundancy of data.

1.2 While searching there can be connection error.

3.1.3 Functional Requirements

REQ-1. Website registration page must be loaded

REQ-2. New User must be registered to website with proper details stored in the database.

REQ-3. The database querying should not take more than 2-3 seconds

3.2 Login

3.1.1 Description and Priority

This feature allows User/Admin access his registered account. The priority is high and frequency of use is medium.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor	System
1 Actor hit on login option	
	2 System shows details to fill of userid and password
3 Actor fill the details and hit on login button	
	4 System accept data and show message as “Login Successful”

Alternate Flow:

1 Actor fill the details of userid and password and hit on login button.
   a. Userid and password can be wrong
   b. While login process there can be connection error.
2 System accept data and show message as “Login Successful”
   a. Connection problem

3.1.3 Functional Requirements

REQ-1. User must be registered
REQ-2. Login Page must be loaded
REQ-3. User must get logged in to the correct account
REQ-4. The User must be able to add products to cart and purchase products
REQ-5. User’s Email ID and Password must be protected

3.3 Search Medicine

3.1.1 Description and Priority

This feature allows user to search medicine. The priority is High and frequency of use is medium.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor	System
1 Actor will enter name of medicine and hit 'search medicine' button.	
	2 System will search the name of particular medicine in database.
3 Actor will add power of medicine.	
	4 System will show medicine detail according to its power.

Alternate Flow:

1. Actor will enter name of medicine and hit 'search medicine' button.
    a. Name of medicine would be wrong, there can be typing error.
    b. While searching there can be connection error.

2. System will search the name of particular medicine in database.
    2.1 There can be internet connection error.
    2.2 Database doesn't contain data of particular medicine.

3.1.3 Functional Requirements

REQ-6. User must be registered
REQ-7. Login Page must be loaded
REQ-8. User must get logged in to the correct account

3.4 Translation

3.1.1 Description and Priority

This feature allows user to translate the details of medicines in other languages such as Hindi, Marathi and English. The priority is high and frequency of use is medium.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor	System
1 Actor will enter name of medicine and hit 'select language' button.	

	2 System will show available languages in database.
3 Actor will select particular language.	
	4 System will show medicine detail according to its language.

Alternate Flow:

1 Actor will enter name of medicine and hit 'select language' button.
   a. Name of medicine would be wrong, there can be typing error.
   b. While searching there can be connection error.
2 System will show available languages in database.
   a. There can be internet connection error.

3.1.3 Functional Requirements

REQ-9. User must be registered
REQ-10. Login Page must be loaded
REQ-11. User must get logged in to the correct account
REQ-12. User should have made at least one search.

3.5 Show nearest medical

3.1.1 Description and Priority

This feature allows a new User to show nearest medical store or hospital according to city. The frequency of use is medium, whereas the feature is of high priority and must be implemented.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor	System
1 Actor hit on gps enable button or specify city	
	2 System will collect all the possible medical store and hospitals from database and display it
3 Actor will choose particular medical	

store or hospital.	

Alternate Flow:

1 1 Actor will specify city.

a. Specification of city may be wronged
b. While searching there can be connection error.

3.1.3 Functional Requirements

REQ-4. Website registration page must be loaded
REQ-5. User must be logged in
REQ-6. City should be properly mentioned

3.6 Check Medicines

3.1.1 Description and Priority

This feature allows a Doctor to check quality and power of medicine details. The frequency of use is
Medium, whereas the feature is of high priority and must be implemented.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor as an admin	Actor as a doctor
1 Actor as an admin will send list of new medicines with its proper description	
	2 Actor as a doctor will check quality of medicines and its description.
	3. Doctor will grant permission of particular medicine
4. Admin will add particular medicines in database.	

Alternate Flow:

1. Actor as an admin will send list of new medicines with its proper description.

a. Name of medicine would be wrong, there can be typing error or its description can be wronged.

2. Doctor will grant permission of particular medicine.

b. Permission can be denied.

3.1.3 Functional Requirements

REQ-7. Website registration page must be loaded
REQ-8. Doctor should be logged in with his login credentials
REQ-9. Doctor should be certified
REQ-10. Errors or wrong information should be properly mention by doctor

3.7 Add Medicines

3.1.1 Description and Priority

This feature allows a Doctor and admin to add new medicines details. The frequency of use is
Medium, whereas the feature is of high priority and must be implemented.

3.1.2 Stimulus/Response Sequences

Basic Flow:

Actor as an admin or doctor	System
3 Actor as an admin or doctor will send list of new medicines with its proper description	
	4 System will receive the information and send to doctor for verification
	5 System will store detailed data in database and display message

Alternate Flow:

1. Actor as an admin will send list of new medicines with its proper description.

a. Name of medicine would be wrong, there can be typing error or its description can be wronged.

2. Doctor will grant permission of particular medicine.

b. Permission can be denied.

4. Data will be stored in database
   A memory usage can be more

3.1.3 Functional Requirements

REQ-11. Website registration page must be loaded
REQ-12. Doctor should be logged in with his login credentials
REQ-13. Doctor should be certified
REQ-14. Errors or wrong information should be properly mention by doctor

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- The Physician software should be able to support multiple simultaneous users.
- Data should be secured and backed up every quarter hour.
- Power supply should have a backup and a disaster recovery plan.
- System should be operable 24 hours a day and accessible in real-time.
- Encryption will Enable Security

5.2 Safety Requirements

- The Database may get crashed or damaged due to some viruses or operating system requirements. Therefore it is mandatory to have backup for your data.
- Security Requirements
- System will use secure Database.
- Proper user Authentication Will be provided.
- There should be separate account for Admin &user. So that no one else can access the database except Admin.

5.3 User Requirements

- The User Of system are doctor, admin and customer of the store.
- The members share assumed to have basic knowledge of computer & internet browsing while administrator of system should have more knowledge so he/she can resolve small problems and perform information.
- The user manual, installation guide and other related material should be sufficient to educate the user how to use the system.

5.4 Software Quality Attributes

The main aim of the Tablet table is to provide detail description of the medicines. These detailed description includes Information about medicine such as use of medicine on particular disease, its doses, side/effects of more or less doses and so on.

This information is added by admin which is corrected and updated by certified doctor. It should provide legitimate data as taking particular medicine affects the person trusting on the system.

Information should be updated time to time as some medicines get banned or get cancelled due to some reasons. In this case admin should maintain the data about medicines.
Handling login credentials as well as user data is an important thing to consider. Robustness is achieved by security of the system. Hence login details of admin and students should be properly stored.

Showing details of nearest medicine is another big step. City of particular user defines hospitals nearer to the place. It needs to save in another database which can be reliably accessed by user whenever required. Quality of the system is achieved when adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability is achieved. Practically it cannot be completely achieved though we can try for maximum beneficial aspect.

5.4.1 Business Rules

Tablet table system is a web site as well as android app which works on the principal of displaying data. This data includes Medicine information, collective information of doses and power of particular medicine. User is provided with language translator which helps him to see

details of medicine in his friendly language. When user provide name of the city it gives details of nearer pharmacies and hospitals in case of emergencies.

6. Other Requirements

Tablet table system is based on medical system and hence it's important to have detailed and legitimate data of medicines.as well as it need to have address and emergency contact number of of nearer pharmacy or hospital which should be properly stored in database. Each city detail should connect the city with nearer hospital or pharmacy and hence their requirements details is another important part.

Appendix A: Glossary

The following are the list of conventions and acronyms used in this document and the project as well:

- Administrator: A login id representing a user with user administration privileges to the software
- User: A general login id assigned to most users
- Client: Intended users for the software
- SQL: Structured Query Language; used to retrieve information from a database
- SQL Server: A server used to store data in an organized format
- Layer: Represents a section of the project
- User Interface Layer: The section of the assignment referring to what the user interacts with directly
- Application Logic Layer: The section of the assignment referring to the Web Server. This is where all computations are completed
- Data Storage Layer: The section of the assignment referring to where all data is recorded
- Use Case: A broad level diagram of the project showing a basic overview
- Class diagram: It is a type of static structure diagram that describes the structure of a system by showing the system's cases, their attributes, and the relationships between the classes
- Interface: Something used to communicate across different mediums
- Unique Key: Used to differentiate entries in a database