

Software Requirements Specification Documents for MedWay

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05.01.2021

MedWay

This is an Application of doctor patient medical shop interaction

Download MedWay for free and browse to view
complete doctor and
medical shop profiles

Functionalities:

- user Registration
- Doctor Registration
- updation of softcopy prescription to patient account
- Searching medical shop and medicine availability
- Medicine ordering
- Admin control



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1. Introduction

1.1 purpose

Medway provide several functionalities that will overcome many disadvantages of our current consultation and medicine buying system.

1.2 Scope

software developed in Android makes the app more reliable and compactable with the other environment.

The application provides:

- Better Extensibility
 - Better Flexibility
 - Provide better interaction services
 - user friendly
 - Included function like cost calculations
 - The application stores documents as human readable files with open file format.
- The application runs online without connection to Administrator

1.3 Product perspective

1. System interfaces

The application runs in the latest version of Chrome or Firefox browser on Windows.

1. User interfaces

user interface design is the design of computers, appliances, machines, mobile communication, devices and website with the focus on the users experience and interactivity. The goal of user interface design is to make the users interaction as simple and efficient as possible.

1.4 Software perspective

1. Existing System:

in our present system, the patient needs go to clinic or hospital to book his appointment or need to make a phone call to book the doctor. He could only get medicine by directly going into the medical shop.

1 Proposed System:

In the current proposed system user can book his doctor the introduced app MedWay and can also search the nearby medical shop, book the prescribed medicine, order medicines to his doorstep. The app provides a transparent platform for the medicines, blocking the fraud doctors, medicines, prices hike...

1.5 System process

Medway is an android application that provide several functionalities that will overcome many disadvantages of our current consultation and medicine buying system

main objective of MedWay is to save time and make every single actions fast and easy it could also record wach actions regarding diagnosis and purchase details to the database

1.6 User Modules

There are four types of users-Administrator , Doctor , Patient and Medical shop

- **Administrator**

Admin can login the system using username and password. Admin can accept users handles and manages each and every activity done in the app

- **Doctor**

Doctor will have a unique username and password to login the app by using his/her account and check activity in accounts

- **patient**

patient can login app by using his username and password and he can look doctor and add medicine for himself.He can view his complete action history in his app

- **medical shop**

medical shop will have unique username and passwod through which he can login he can add details regarding his shop stock and recieve and execute order

1.7 Limitation

The medway is a efficient app that provide better booking and diagnosis facilities but all the app should have some limitation

- Need of internet facility

2. System Analysis

1. Identification of need

The following techniques are used for problem identification

1. Conducting questionnaires

Conducting questionnaires by various opinion about the online booking and medicine ordering.

1. Preliminary Investigation

After the need for a system has been identified. An initial investigation is conducted to identify real problems of existing system

1. Back Ground Analysis

The current system comprises the manual system.

1. Feasibility Study

The feasibility study deals with all the analysis that takes up in developing the project. Technical feasibility, Economic feasibility, social feasibility.

1. Project planning

As project information becomes available during the project, the plan should regularly revise.

1. Project Scheduling

Project scheduling involves separating the total work involved in a project into separate activities and judging the time required to complete these activities.

2.1 System Requirements

This part of MedWay shall provide the following types easy to use, interactive and intuitive interfaces.

- **Administrator should contain the following functional requirements**
 1. username
 2. password
- Administrator have the Functionality to check doctor , patient and medical shop details
- feedback details
- Activity details
- **Doctor module should contain following functional Requirements**
 1. Ability to view received bookings
 2. Ability to give prescription
 3. Ability to view booking history
- **Patient module should contain following functional Requirements**
 1. Ability to register in the app database
 2. Ability to search doctors and book doctors
 3. Ability to view prescription
 4. Ability to search medical shop
 5. Ability to view order delivery status
 6. Ability to give feedback
- **Medical shop module should contain following functional Requirements**
 1. Ability to view the order list
 2. Ability to edit stock details

2.2 Software features

- MedWay provide better consultation and medicine ordering services through internet
- This app manages the user activities
- It helps us with proper information at any time in an efficient way

1. Operating Environment Hardware Requirements

2.3 Hardware Requirements

- processor : intel pentium 3 processor or above
- Speed : 1GHZ or above
- RAM : 2GB
- Harddisk : 500GB

2.4 Software Requirements

- Operating System : Windows 7
- Front End : Android
- Back End : MySql
- Server : Glassfish server 4.0
- Other Requirements : Mozilla firefox , Android studio , Net beans.

3. System design

System design is the second phase of system life cycle. The design phase of the project involved developing the application from its Requirements.

The system design phase of MEDWAY can be classified as :

- design the external framework of the app using software android studio version 2.2.3
- design the database, its tables, and fields and feeding data into it.
- creating the connection with the database and assessing database entities to perform operation.

1. Modularization details

Primary objective of module design is to develop a modular structure and represent the control relationship between modules.

Administrator

Administrator can control the overall system and should have the functionality to monitor overall process. Administrator has to specify the username and password.

Doctor

Doctor can login the app using his/her unique username and password. Doctor will receive notification from the patient and doctor give the prescription to patient

Patient

Patient also has unique username and password to login the app. Patient will receive prescription from doctor after consultation. He can also search medical shop, order medicine and give feedback.

1. Input design

Input design is most important part of overall system design, which requires very careful attention. The objective of input design is to create an input layout that is easy to follow and does not induce operator errors.

1. Registration form

Registration form in the app is simple. Doctor, patient and medical shop can register using the Registration form.

2. Booking form

The form is the makeup form of the to perform various action

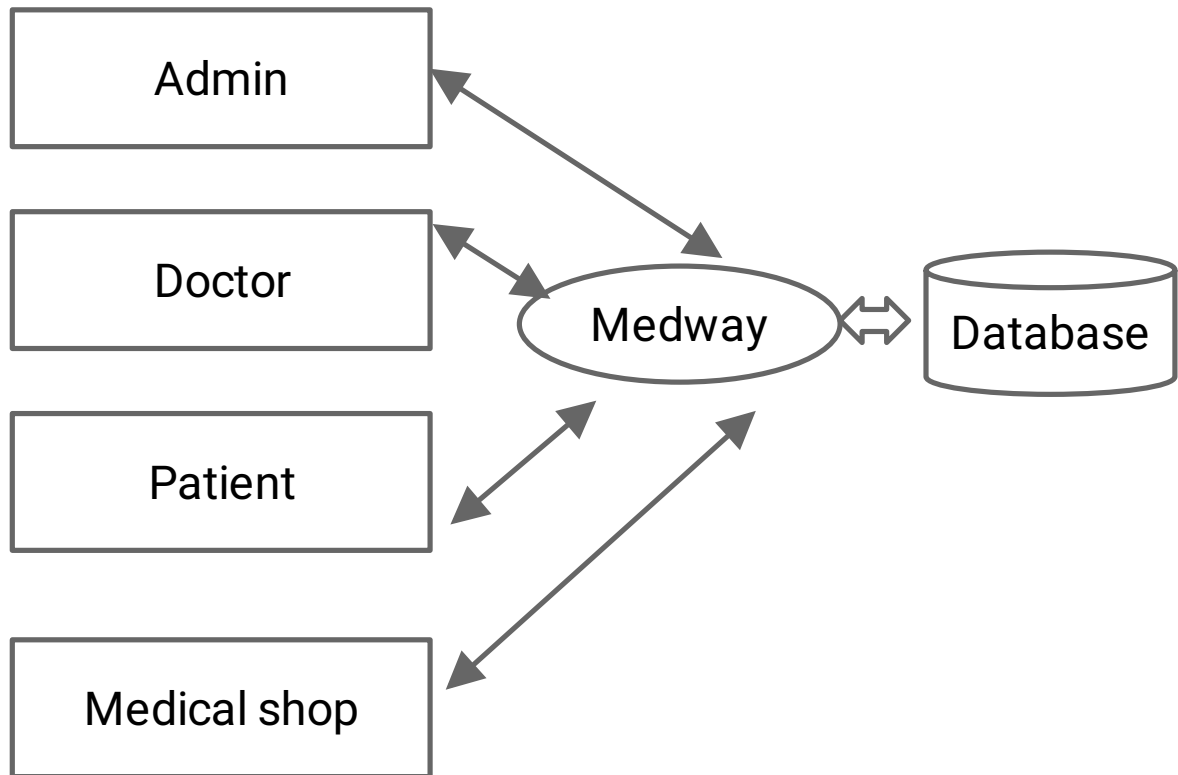
Output Design

Output from the computer systems are required primarily to communicate the result of processing to the users. Computer output is the most and direct source of information to the user. Efficient, intelligent, and legible output design should improve the system relationship with the user and help in decision making.

- Determine what information is present
- decide whether to display, print, speak..
- Arrange the Presentation of information
- Decide how distribute output receipts .

4. Data Flow Diagram

Context level DFD



5. Coding

Coding is the process of designing, writing, testing, debugging, troubleshooting and maintaining the source code of computer programs.

1. Language/Tools used

Front End Used : Eclipse

Eclipse is an integrated environment used in computer programming. It contains a base workspace and an extensible plug in system for customizing the environment. Eclipse is mostly in java and its primary use is for developing java applications.

Python:

Python is an interpreter, high level, general purpose, programming language. Python is dynamically typed and garbage collected. Python is meant to be an easy readable language. The source code of python is saved as .py file.

Back End Used : MySql

MySql database is world's most popular open source database because of its consistency, fast performance, high reliability and ease of use.

Validation checks

Required field validator is one of the validation control.

Error handling and Exception handling

Check user input to the system. In case of error concerning user related inputs, an error message is displayed. Proper exception handling implemented for reliability, availability, fault tolerance.

6. System Security Measures

System security is a branch of technology known as information security as applied to computers and networks. Objective of system security includes protection of information and property from theft, corruption, or natural disaster.

Check and controls

confidentiality : A security Measures which protects against the disclosure of information of parties other than an intended users that is by no means the only way of ensuring

integrity : integrity schemes often use some of the same underlying technologies as confidentiality schemes.

Authentication : A measure designed to establish the validity of a transmission, message, or originator.

Authorization : The process of determining that a requester is allowed to receive a service or perform an operation. Access control is an Example.

Availability : Assuring information and communication services will be ready for use when expected

Database security

Database security is the practice of keeping data protected from corruption and unauthorized access. The focus behind data security is to ensure privacy while protecting personal or corporate data. These services are an important part of data security that we encounter with everyday computer usage.

Creation of user profile and access rights

Authentication

Authorization

Authenticating users.

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