

Expt No: 01

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System Requirement Specification Health Consultancy Service

Aim

To prepare an System Requirement Specification (SRS) for Health Consultancy Service.

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1. Introduction

1.1 purpose

* The purpose of this SRS is to describe the requirements involved in developing a health consulting service.

* The intended audience is any person, who wants to consult a doctor, acquire knowledge

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about first-aid, medicines and health tips.

1.2 Scope

The product is titled Health Consultancy

Service

The product will perform the following

tasks:-

Information of health problems

Consultation of doctor

To search about the medicines and its usage.

First aid and health tips

1.3 Definitions, Acronyms and Abbreviations

DBMS - DataBase Management System

References

IEEE standard 830-1998 recommended

practice for software Requirement Specification

Description.

Overview

The SRS contains an analysis of the requirements necessary to help easy design.

* The overall description provides

interface requirements for the health consultancy service, product perspective, hardware interfaces, software interfaces, communication interfaces, memory constraints, product functions, user characteristics, product functions and other constraints.

Succeeding pages illustrate the characteristics of the typical naive users accessing the system along with legal and functional constraints enforced that affects the health consultancy in any fashion.

2. The overall Description

2.1 product perspective

2.1.1 Hardware Interfaces

Hard disk: The database connectivity requires a hardware configuration that is online. This makes it necessary to have fast database system running on high rpm hard disk permitting complete data redundancy and back-up systems to support the primary goal of reliability.

The system must interface with the standard output device, keyboard and mouse to interact with their software. 9

2.1.2 Software Interface

Front end - HTML 5, CSS, JavaScript (JS), Bootstrap.

Back end - PHP, WAMP/XAMPP server with MySQL.

2.1.3 Memory Constraints

No specific constraints on memory

~~2.1.4~~ Operations

The software allows four modes of operations

This system allows user to get instant guidance on their health issues through an online health consultancy service.

It helps to get consultation from verified doctors.

It shares the information on medicines

It provides first aid ideas and free health tips.

2.2 product Functions

To provide guidance about health problems

To search the details of doctors.

To search the details of medicine

The software validation the authentic user by extracting their username and password.

After the validation of the user, software allows the user to consult the doctor for their health issues

It shows the information on medicines

It provides first aid ideas and free

health tips.

2.3 User characteristics

The intended users of their software

need not have specific knowledge as to what is the internal operation of the system. Thus, the end user is at a high level of abstraction

that allows easier, faster operation and reduces the knowledge requirements of end users.

The product is absolutely user friendly so the intended users can be the naive users.

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The product does not expect the user to possess any technical background. Any person who knows to use the mouse and the keyboard can successfully use this product.

2.4 Constraints

The user can login only using their unique username and password. In case, the user has forgotten the password, it can be retrieved through their registered email.

3. Specific Requirements

3.1 Logical Database Requirements

This system should contain databases that include all necessary for the information for the product to function according to the requirements.

These include relations such as patient details and doctor details.

The patient details refer to the information such as name, email, age, gender, address, contact and consulting doctor.

The doctor details refer to the information such as name, age, gender, qualification, speciality, experience, hospital, name and contact.

4. Non-Functional Requirements

4.1 Performance Requirements

E-R Diagram

The E-R diagrams can be useful for organizing data that can be represented by a relational structure, it can be providing a visual starting point for the database design that can be also used to help in determining information system requirements throughout an organization.

After a relational database is rolled out, an ER diagram can still serve as a reference point, should any debugging or business process reengineering be needed later. In this way we can get a boost in the performance.

Normalization

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As redundancy might be expected in patient, doctor details, normalization can be used for minimizing the redundancy. Also it can be used for organizing the data collected in more efficient way by dividing the large tables into smaller tables and linking them using relationship.

4.3 Safety Requirements

If there is extensive damage to a whole portion of the database due to catastrophic failure such as disk crash, the recovery method restores a past copy of the database that was backed up to archival storage and reconstructs a more current state by redoing the operations, from the backed-up log, up to the time of failure.

4.4 Software Quality Attributes

4.4.1 Availability

The service should be available on 24x7. The patients and doctors can connect with each other during their comfort hours.

4.4.2 Correctness

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The appointment made by the users/patients to consult the doctor should be done in a right manner.

4.4.3 Maintainability

The administrator of the service portal should maintain the correct details of the doctors, patients, medicines and appointments.

4.4.4 Usability

The service should satisfy maximum number of patients/users in consulting the ~~doctors~~ doctors.

	Total marks	Obtained marks
Preparation and Viva	10	08
Observation	10	08
Design and Implementation	10	09
Output	10	08
Record	10	08
Total	50	41

~~Q3~~ Result

Thus, the software Requirement specification for the project Health Consultancy Services has been prepared and documented.