

ASSIGNMENT ON ADVANCED SOFTWARE ENGINEERING

SOFTWARE REQUIREMET SPECIFICATION

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1. INTRODUCTION

1.1 PURPOSE

The purpose of this document is to develop a SRS document that is used as a guide for the developer and a software documents that satisfies the requirements of clients with ease.

1.2 SCOPE

This system helps the customers to search for construction purposes based on his/her requirement and apply for appointment and make online payment.

1.3 PRODUCT PRESPECTIVE

1.3.1 System Interface

This system is designed in such a way that the future plans of expansion can be implementing easily without affecting future. The registered user can be able to see all information about the staffs and workers details, can search designs uploaded by other customers if they want the same design. This can be run in chrome, Firefox, or any other web browser.

1.3.2 User Interface

User interfaces should be user-friendly in order to make the interaction as instinctive and intuitive as possible. This application has menu, buttons, textboxes. This system helps the user to control the system with mouse or keyboard. This system contains home page that includes login, registration, feedback. This system is designed to help the customers to select a house/building/apartment through construction as they want, easily. They can have online payment and can add testimonial to website.

1.3.3 Hardware Interface

The hardware characteristics of each interface between software product and the hardware components of the system. The system should need proper internet connection for web application to work properly.

1.3.4 Software Interface

This system can be used in any of the operating system. Frontend of this system is PHP. Backend is MySQL.

1.3.5 Communication Interface

The security of a user must be consistent through the use of passwords and unique user ID or username. The Construction Management System will communicate with the database over the internet.

1.3.6. Memory constraints

In this system here we need only 2GB RAM and 8MB cache memory for storage and processing.

1.4 PRODUCT FUNCTION

This application is used to help companies in processes like budget management, communication, decision-making and job scheduling. Its main goal is to make construction business processes a lot easier through automation.

1.5 USER CHARACTERISTICS

This system is designed to help the customers to make the construction easy. This system is made to help the vendors to increase their sale of items and to make the project construction easy for customers. This system has all the features that are required by customer who is constructing any building and also has all the functions that are needed by the vendors to increase their work and income source. Construction management tools have significantly improved the construction sector in terms of productivity, efficiency and company competitive. The feature of construction management system typically help builders automate their work and documentation processes, which are essentially the purpose of construction management system.

1.6 ASSUMPTION AND DEPENDENCIES

First the new customer should register the form and fill the details about them. After that, they are provided with a username and password through which the customer should login. They should need good software internet connection.

1.7 ACRONYMS AND ABBREVIATIONS

Here we don't have to use any abbreviation and acronyms.
We use bold letters to represent main functions of the system.

2. REQUIREMENTS

2.1 CUSTOMER REQUIREMENTS

- Data entering must be easy.
- Searching for the records must be easy.
- Secure the data.
- Can't enter erroneous data.

2.2 SYSTEM REQUIREMENTS

➤ Hardware Requirements:

Selection of hardware configuration is very important task related to the software development. The processor should be powerful to handle all the operations. The hard disk should have the sufficient capacity to solve the database and the application.

Processor	:	Pentium 4
RAM	:	2GB
HDD	:	320GB or above
Monitor	:	LCD Monitors
Keyboard	:	Standard Keyboard
Mouse	:	Optical

➤ **Software Requirements:**

Operating System : Windows 10

Front End : PHP

PHP standard out as a small open source project that evolved as more and more people found out how useful it was. PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

Back End : MYSQL

MYSQL Server is an easy to use, lightweight version of MYSQL Server designed for quickly building data driven applications. The main advantages are,

- Easy to install.
- Easy to manage.
- Rich database functionality.

2.3 FUNCTIONAL REQUIREMENTS

Software requirements are broadly divided classified as functional and non-functional requirements. Functional requirements are related to the expectations from the intended software. They describe what the software has to do. They are also called Product features. Sometimes, functional requirements may also specify what the software should not do. There are three modules in this system.

MODULES:

Admin:

- Approve/reject/view architects
- Approve/reject/view users
- View complaints
- Approve/reject/view
- Change password
- View reviews

User:

- Registration
- Search architects
- Upload ideas
- Add/view/delete Plot/house/building sell ads
- Add/view/delete worker request
- View plan estimation
- Add /view/delete reviews

Architect:

- Registration
- Add/view/delete tips
- Upload free plans
- Receive contract work requests
- Cost estimation

2.4 NON-FUNCTIONAL REQUIREMENTS

Non-functional requirements are mostly quality requirements that stipulate how well the software does what it has to do. Non-functional requirements that are especially important to users include specifications of performance, reliability, maintainability and usability.

2.4.1 Usability Requirements

This system is very user-friendly. The customer just only need to login and upload their plans about how they want to construct their house/buildings/apartments. Customers are able to view the design of house/buildings/apartments of other customers as if they want their design.

2.4.2 Performance Requirements

The performance of the system should be good. It should not be slow or lagging.

2.4.3 Maintainability Requirements

System maintainability is defined as the degree to which an application is understood, repaired, or enhanced. System maintainability is important because it is approximately 75% of the cost related to a project.

2.4.4 Database Requirements

A well designed database is essential for the good performance of the system. The most important aspect of building application is the design of database that stores according to user requirement.

2.5 Design constraints

Design allows you to create a model that can be assessed for quality and improved content. Design is the place where WebApp quality is established.

3. VERIFICATION

This system computarizes all manual activities in existing site. All functional and non-functional requirements are satisfied.

4. REFERENCES

- Software requirements specification document for ReqView •
<https://www.w3schools.com>
<https://www.php.com>