**SOFTWARE REQUIREMENTS SPECIFICATION**

For **PROPERTY MANAGEMENT SYSTEM**

Prepared by :

ALMIRA SHAHWAR

RAFIA JAWED

SID: 9191

SID: 9139

***Table of Contents***

1. Introduction..............................................................................................................................

1.1 Purpose ............................................................................................................................................

1.2 Document Conventions....................................................................................................................

1.3 Intended Audience and ReadingSuggestions.................................................................................

1.4 Product Scope .................................................................................................................................. 1.5 References........................................................................................................................................

2. Overall Description..................................................................................................................

2.1 Product Perspective ......................................................................................................................... 2.2 Product Functions............................................................................................................................ . 2.4 Operating Environment.................................................................................................................... 2.5 Design and Implementation Constraints.......................................................................................... 2.6 User Documentation ........................................................................................................................ 2.7 Assumptions and Dependencies ...................................................................................................... 3. External Interface Requirements...........................................................................................

3.1 Hardware Interfaces....................................................................................................................... 3.2 Software Interfaces.......................................................................................................................... 3.3 Communications Interfaces ............................................................................................................. 4. System Features........................................................................................................................

4.1 System Feature 1..............................................................................................................................

4.2 System Feature 2 (and so on)........................................................................................................... 5. Other Nonfunctional Requirements.......................................................................................

5.1 Performance Requirements..............................................................................................................

5.2 Safety Requirements........................................................................................................................ 5.3 Security Requirements..................................................................................................................... 5.4 Software Quality Attributes............................................................................................................. 5.5 Business Rules.................................................................................................................................

***1. Introduction***

***1.1 Purpose***

The System Requirements Specification (SRS) is to capture the business requirements for the Real Estate Right of Way System. The purpose of these requirements is three fold: 1) used to select a system to purchase 2) used to identify feature requirements during the system design phase 3) assist the business with identifying change management needs The SRS document should also capture the non-functional requirements as well as system conversion requirements.

***1.2 Document Conventions :***

The document is prepared using Microsoft Word 2010 and has used the font type. ' Comic Sans MS’. The fixed font size that has been used to type this document is 12pt with 1.5 line spacing. It has used the bold property to set the headings of the document. All pages except the cover page are numbered, the numbers appear on the lower right hand corner of the page. Every image and data table are numbered and referred to the in the main text. Standard IEEE template is the template used to organize the appearance of the document and its flow. Every requirement stated have its own priority.

***1.3 Intended Audience and Reading Suggestions:***

The intended audience of this document would be the admin and users like Manager ,owner ,buyers and sellers and of the property, and project team, supervisor with the objective to refer and analyze the information. The SRS document can be used in any case regarding the requirements of the project and the solutions that have been taken. The document would final provide a clear idea about the system that is building.

**1.4 Product Scope**

Property management software is a cloud-based or on-premise application that allows the efficient management of properties to simplify legalities, personnel, and maintenance, all under one platform. Property management software helps property managers and owners to simplify property management processes such as establishing strong communication, tracing finances, storing leasing documents and contracts, centralization and digitization of information, and ensuring an efficient rent collection process.

Our efficient process workflow is streamlined to maximize efficiency, and allows us to provide the following value-added benefits to our clients -

* Efficiently maintaining their property according to the owner's specifications
* Closing customer complaints ensuring complete tenant satisfaction
* Delivering exceptional customer services through efficient use of technology

The property management system we are going to implement will be covering all basic processes done in the property. It would handle

ADMIN:

* Manage Users and Full Application

MANAGE BUYERS

* Add Buyer
* View Buyer’s History
* Modify/Delete Buyer

MANAGE SELLERS

* Add Buyer
* View Seller’s History
* Modify/Delete Buyer

MANAGE REGISTERATION

* Manage Property History and Description
* Manage Property’s Cost

USERS:

* Register (login and logout)
* Update Profile
* Change Password
* Check properties for sell
* Buy Properties
* Manage Properties Cost

BUYERS:

* Register (login and logout)
* Update Profile
* Change Password
* View Properties For Sell
* View Properties Description
* Request For Quotations

DEALERS:

* Register (login and logout)
* Update Profile
* Change Password
* Create Quotations
* Check Enquiries
* Send Emails

***1.5 References:***

IEEE Software Requirements Specification Template

Available: <http://home.agh.edu.pl/~jsw/io/IEEE830.pdf>

**2. Overall Description**

**2.1 Product Perspective:**

This Real State follows manual procedures to keep track of its day to day

activities. When scenarios such as sellers information handling, buyes handling,users handling, property analysis and cost generation is taken into consideration there exists many issues with regard to efficiency, security, accuracy and reliability. Due to improperly managed details Real state faces quite a lot of difficulties in accessing past data as well as managing present data. The manual file systems which are being used at present require storage facilities which is also another overhead. The fully functional automated Property management system which will be developed through this project will eliminate the disadvantages caused by the manual system by improving the reliability, efficiency and performance. The usage of a database to store users ,buyers ,sellers and property details etc. will accommodate easy access, retrieval, search and manipulation of data. The access limitations provided through access privilege levels will enhance the security of the system. The system will facilitate concurrent access and convenient management of activities of the medical center.

Admin and Users Management

* Recording users details
* Registers users
* Updating the Profile

Buyers and Sellers Management

* Schedule of Property Selling and Price

**2.4 Operating Environment**

Software requirements

* Windows 7 or above operating system
* MySQL server

Hardware Requirements

* Core i5 Processor
* 4GB Ram
* 20GB of hard disk space in terminal machines

***2.5 Design and Implementation Constraints***

* System is wirelessly networked with an encryption
* System is only accessible within the hospital premises only.
* Database is password protected.
* Should use less RAM and processing power.
* Each user should have individual ID and password.

**2.6 Project Documentation**

|  |  |  |
| --- | --- | --- |
| Software Life Cycle Phase | Documentation | Intended Activities |
| Requirement Gathering, Analysis and Specification | * Use Case Diagram with Flow of Events * Activity Diagram * Realization of Use Cases * Software Requirement and Specification (SRS) | Includes the customer expected software features, constraints, interfaces and other attributes.  Moreover the objectives and the benefits gained through the system are clearly specified. |
| Software Design | Software Design Description(SDD) | Describes the logical basis of design decisions taken and how it will pave way in acquiring the requirements of the customer through the software |
| Implementation | Technical Documentation | Contains information regarding the implementations of the system using the programming concepts |
| Software Testing | Software Test Documentation(STD) | Includes information degrading testing procedures to validate and verify the software results. Main types of testing techniques are unit testing, integration testing, system testing and acceptance testing |
| Maintenance | User Documentation | Includes manuals for the end users according to their position of access levels |

***2.7 User Documentation***

As a part of the system itself a user documentation is provided to the customers which gives an overview of the system. It will include the full description about the product and complete orderly followed steps to install the software. The users will get the opportunity to use the system without having any trouble. The user manual will include the email addresses to contact us in need. Tasks are listed alphabetically or logically grouped often using cross referenced indexes which helps the users to know exactly what sort of information they are looking for.

***2.8 Assumptions and Dependencies***

* Each user must have a valid user id and password
* Server must be running for the system to function
* Users must log in to the system to access any record.

***3. External Interface Requirements***

***3.1 Hardware Interfaces***

* Laptop/Desktop PC

core i5 processor

4GB RAM

500GB HDD

 Purpose of this pc is to give information when Patients ask information about doctors, medicine available lab tests etc. To perform such Action it need very efficient computer otherwise due to that reason patients have to wait for a long time to get what they ask for.

* Laser Printer (B/W)

Simply this device is for printing bills and view reports.

* Wi-Fi router

 Wi-Fi router is used to for internetwork operations inside of a

Hospital and simply data transmission from pc’s to sever.

***3.2 Software Interfaces***

Developing end

* C# is fast, secure, and reliable. From laptops to data centers, game consoles to scientific super computers, cell phones to the Internet,
* MySQL server - Database connectivity and management

 Client end

* OS - Windows 7/8/8.1- Very user friendly and common OS
* MySQL server - Database connectivity

***.4 Communications Interfaces***

* NIC (Network Interface Card) – It is a computer hardware component that allows a computer to connect to a network

. NICs may be used for both wired and wireless connections.

* CAT 5 network cable- for high signal integrity
* TCP/IP protocol-Internet service provider to access and share information over the Internet
* Ethernet Communications Interface- Ethernet is a frame-based computer network technology for local area networks (LANs)
* Ubiquitous, easy to set up and easy to use. Low cost and high data transmission rates.

***Nonfunctional Requirements***

***5.1 Performance Requirements***

Response time-The system will give responses within 1 second after checking the patient information and other information.

Capacity-The system must support 1000 people at a time

User interface- User interface screen will response within 5 seconds.

Conformity – The system must conform to the Microsoft accessibility

***5.2 Safety Requirements***

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a 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 reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

***5.3 Security Requirements***

All the administrative and data entry operators have unique logins so system can understand who is login in to system right now no intruders allowed except system administrative nobody cannot change record and valuable data.

***5.4 Software Quality Attributes***

AVAILABILITY: The system shall be available all the time.

CORRECTNESS: A bug free software which fulfill the correct need/requirements of the client.

MAINTAINABILITY: The ability to maintain ,modify information and update fix problems of the system

USABILITY: software can be used again and again without distortion.

ACCESSIBILITY: Administrator and many other users can access the system but the access level is controlled for each user according to their work scope.

ACCURACY: The reliability on the information/output. Can depend/be sure of the outcome.

STABILITY: The system outcome/output won’t change time to time. Same output

 Will be given always for a given input.

***5.5 Business Rules***

* Want take the responsibility of failures due to hardware malfunctioning.
* Warranty period of maintaining the software would be one year.
* Additional payments will be analyzed and charged for further maintenance
* If any error occur due to a user’s improper use. Warranty will not be allocated to it.
* No money back returns for the software.
* Trust bond placement should be done before designing and coding. An advance or an agreement.