Property Management System

Software Requirements Specification

Capstone Computing Project 1(Semester 1 2019 Sri Lanka Inst Info Tech)

Group No - SD07

Submitted by:

1. IT16525504 - 19740803 - (C.A.Hettiarachchi)
2. IT17075718 - 19735171 - (K.M.Wickramaarachchi)
3. IT17071208 - 19735155 - (W.M.P.K.Wijekoon)
4. IT17091008 - 19744096 - (D.P.G.G.Baratha)
5. IT17072984 - 19802460 - (U.Yohan Avishka Fernando)

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1.INTRODUCTION

1.1 PURPOSE

The purpose of our project , Property Management System is to develop a system which enhances the management and efficiency of properties including payments , utilities , tenant bookings and maintenance.

1.2 INTENDED AUDIENCE AND READING SUGGESTIONS

This document is intended for ,

- Our client Mr. Dammika De Silva ; Senior Lecturer at SLIIT.
- Developers
- Project Testers
- End Users

1.3 PROJECT SCOPE

Our project Property Management System consists of main four functionalities ; Front-end Management , Booking Management and Content Management.One of our main goals is to provide an automated system to the client to manage daily requirements of hotels , apartments , houses , shopping centers and etc…
Help the customers to choose the best living environment, provide properties for affordable prices, maintain high security, handle bills more accurately are few of our objectives.Primarily our aim is to provide anytime anywhere service to the customer.
By using an automated system with advanced technologies we can save time as tenants can access information at anytime anywhere easily through a device.Also transactions can be handled over the system effortlessly.Keeping track of tenants requests , updation of details , recording of data , communication between the property manager and tenants can be done smoothly through this system.

1.4 REFERENCES

Available at: [online] https://www.allpropertymanagement.com/resources/faq/what-is-a-property-management-system/ [Accessed 8 March 2019]

Available at: [online] https://headchannel.co.uk/7-benefits-of-using-property-management-software-321 [Accessed 8 March 2019]

Available at: [online] https://tejalal.files.wordpress.com/2015/09/atm-srs.pdf [Accessed 9 March 2019]

2. SYSTEM

We are planing to build a web based application for this project to give the user a mobility and ease of use over desktop and mobile devices.Project will be mobile responsive.

Back end will be developed using PHP,We are using a PHP framework called Laravel to build the dashboard. It will also use HTML,CSS or AngularJs as front end languages & Java script for small calculations. Data will be stored in the server. We are using mySQL for database data handling.

We are using Github to manage the project repositories. The reason to choose this platform is we have experience in Github with past projects .All the project codes and other resources will be stored in github.

For Project management,Task allocations and progress will be handled using Trello.

3. FUNCTIONAL REQUIREMENTS

3.1) User must be able to manage residential units.

3.2) User must be able to be informed about bills and payments.

3.3) User must be able to book residential units(tenant booking management).

3.4) User must be able to manage maintenance through the system.

3.5) User must be able manage complaints(ex:-Technical issues of units)

3.6) User must be able to log in to the system using any device.

3.7) Stored data must be secured and able take backups.

3.8) user should be able to change user passwords and profile.

4. NON FUNCTIONAL REQUIREMENTS

4.1) System should be easy to access.

4.2) User must have a simple interface to interact.

4.3) Service must be uninterrupted.

4.4) Database should be able to handle large loads of data.

4.5) The user interfaces are simple and easy to use.

4.6) Minimum response time

4.7) The load time for the interfaces should be minimum.

4.8) Reliability of the system.

4.9) Interoperability of the system by using both web and mobile application.

4.10) Maintainability of the software.

4.11) Availability of the software for the end users of the system.

5. CONSTRAINTS

5.1) We will not build a mobile application for this project.But the software we are going to develop is responsive on both web and mobile devices.

5.2) It requires more resources and time to test our software on different screen sizes.Therefore we won't be able to test software due to less resources.

5.3) Even if the tester didn't recognize any errors in the system , still there can be system failures.Therefore it will lead to limited testing on the robustness of the system.

5.4) In different networks loading time is different from each other which means loading time depends on the speed of the network.

6. VERIFICATION

6.1) We will upload sample data and Test all the functionalities.

7. EXTENSIONS

7.1) Include more functions; utility bill management , maintenance management, payment management.

7.2) Hope to develop a moblie app for the system in the future.

7.3) Extend the current property management system to the hospitality industry by implementing Hotel Property Management.The system automates functions of the hotel management system.

8. APPENDIX

Figure 8.1 : System Diagram

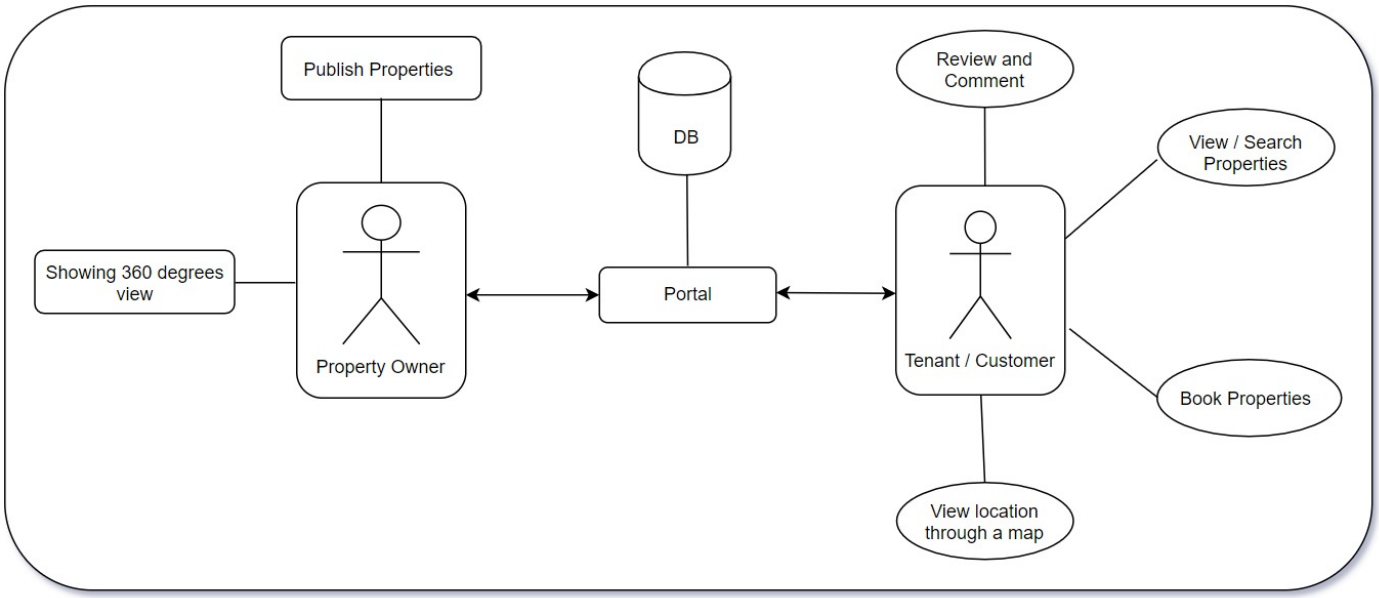

Figure 8.2 : Function Diagram