###### **Web Application for Online Real Estate Portal**

**Project Report**

ITCS 6112 Software Systems Design and

Implementation Fall 2018

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1. **Abstract**

Our Project “Web Application for Online Real Estate Portal” is related to an online application of estate. We have implemented a website for different cities showing their location with the help of a map. Instead of providing products from only one estate showroom the application is acting as an interface between the user and the rental estate owners. There is no restriction on rental estates for our website. The focus was mainly on the software steps and the Agile Methodology used. Software Development Life Cycle describes the phases of the project in the order they are executed. Each phase produces results that are carrying forwarded to the next phase of the life cycle. The code is produced according to the design which is called the development phase. After the development, the testing verifies the product implementation phase against requirements. In agile methodology, we have used iterative enhancement technique. As iteration based methodology, each iteration in the agile methodology represents a small scale and self-contained Software Development Life Cycle (SDLC) by itself.

1. **Problem Definition**

The project aims to solve ongoing identified problems through a web application. The website aims to solve the user problems by acting as a mediator between the user and the estate owner. When the user is ready to look for a property, he can directly sign up and login into the portal and look for different options shown. The extra features provided such as the estate image, its location through map given and no of years estate is old gives user some insight about the property. If the user wishes to rent of buy the property then he is free to contact the estate owner for further negotiations. The admin plays a key role here. The admin has the full control of the system and can also manage the user requests.

1. **Development Methodology**

This web-application is developed based on Agile Development Model. The requirements of the project are characterized into three sprints. Refer to the Requirement Specification for understanding the requirement scope across the sprints.

* 1. **Sprint Activities: (09/25/2018 to 10/16/2018)**
* Sign-Up Module
* User Login
* User Authentication
* Location View Designing
* Database implementation
* Sprint 1 functional testing
  1. **Sprint 2 Activities: (10/16/2018 to 11/06/2018)**
* UI Changes
* Implementation of Google Maps
* Property View Designing
* Sprint 2 functional Testing
  1. **Sprint 3 Activities: (11/13/2018 to 11/19/2018)**
* Location View implementation
* Property view implementation
* Owner view designing and implementation
* Sprint 3 functional testing
* Integration Testing
* Documentation

1. **Key Deliverables**
   1. **Software Requirements Specification Document:**

This document outlines the business requirements, use cases and system constraints.



* 1. **Design Specification Document:**

This document outlines software architecture, sequence diagram, component diagram, deplyoment diagram, use case diagram and class diagram.

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* 1. **Technical Documentation:**

##### This document summarizes the programming languages used, database structure and key libraries used in the development process.



* 1. **User Documentation:**

Working and key use cases of application with screenshots.



* 1. **Test Documentation:**

This document outlines testing techniques, test report and test environement details.

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1. **Project Milestones**

|  |  |
| --- | --- |
| **Date** | **Activity** |
| 09/25/2018 | Kick-off Meeting |
| 10/02/2018 | Problem Statement Finalization and proposal sign off |
| 10/10/2018 | Design Documentation, Requirements Specifications, and Test Plan |
| 10/16/2018 | Sprint 1-Development Sign off |
| 10/18/2018 | Sprint 1-Functional Testing Sign off |
| 10/30/2018 | Sprint 2-Development Sign off |
| 11/04/2018 | Sprint 2-Functional Testing Sign off |
| 11/13/2018 | Sprint 3-Development Sign off |
| 11/18/2018 | Sprint 3-Functional Testing Sign off |
| 11/20/2018 | Integration Testing |
| 11/23/2018 | Documentation |

1. **Conclusion**

Effectively resolving the user issues is important which is handled by the system administrator. It works as a arbitor between the user and estate agents and tries to fulfill all the user requests.

With the help of Google Map users and trace the exact location of the property and with the help of stored images in the database the user can look and decide weather to be interested in the particular property or not.

1. **Future Scope**

* Can develop it into a mobile application
* Can create a gateway for online booking of the property.