Fontys University of Applied Sciences

SimpleHomes Project Plan

Class: S3-CB02

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1   Update Notes:

Date	Version	Notes:
2021/09/02	v 1.0	Initial draft of the project plan.

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1. Preface

This is a project plan document regarding the SimpleHomes project in the third semester of the software engineering program in Fontys University of Applied Sciences. The document will cover information about the web application in question and some of its expected functionalities.

2. Introduction

Every year the Dutch real estate market grows around 5-10% and the demand for houses and apartments is at an all-time high. As the population of the Netherlands increases on a yearly basis and more and more students choose the Netherlands as their country of choice to study in, there is no doubt that the demand for housing will only continue to rise. Due to the facts stated above, SimpleHomes will focus on creating a real estate web application where homeowners can put up their properties for sale or for rent for customers to browse and set up viewings.

Chapter 3 will provide some basic information about the software engineer who is going to be creating the project.

Chapters 4 and 5 will describe the reasoning behind this project by laying down the main problems with renting out or looking for a property and then will provide a solution to the problem which the entire project will be based upon.

Chapter 6 will depict some user stories about basic and frequent tasks that the users of the web application are likely to be doing on a regular basis.

3. Team

The person behind the SimpleHomes web application is Joan Krastanov. He is a junior software engineer in his third semester in Fontys University of Applied Sciences and is going to be responsible for all the features and implementations regarding this project.

He can be found via e-mail: j.krastanov@student.fontys.nl.

4. Problem description

With the high demand for housing, finding a place to live in the Netherlands has become a very daunting task for a lot of people. Every year hundreds, if not thousands of students come to the Netherlands without still having a place to live and having to spend weeks or even months on someone's couch or in tents. That is why SimpleHomes will focus on making the stressful process of finding a new home as reliable and easy as possible. This does not guarantee that the customers will be provided a place to live, but they will have all the required tools to find what they need.

5. Project goal

This project's goal is to create a web application that can help people in the Netherlands find a place to live and can also help homeowners get reliable and responsible tenants. The project will be completed in the required time frame and will include all the below mentioned deliverables, resulting in a complete and functional project.

Every customer will be able to sort through the available properties based on a number of attributes like location, price, size, etc. They will also have the ability to view photos of the properties they have chosen and even set up viewings or get some contact information about the property owner.

Every homeowner will be able to put up their property for sale or to be rented out based on what they want. They will always have the ability to update or delete the property whenever they feel the need to do so.

Each property will be bookmarkable so that customers can save homes that they are interested in. Once a property has been bookmarked, the user will receive emails every time the information about the property has been updated or it has been rented out/sold.

6. User Stories

6.0 User: User

User Story 6.0.1

As a user, I can create an account, so that I can upload a property or contact a homeowner.

Acceptance criteria:
- User provides the following information in order to create an account
  - Full name
  - Email
  - Password
  - Phone number
- After registration the user can upload a property for sale or rent
- After registration the user can view contact details for the owners of different properties

Priority: 50
Story Points: 8

User Story 6.0.2

As a user, I can log in to my account, so that I can view my uploaded or bookmarked properties.

Acceptance criteria:
- User provides the following information in order to log in
  - Email
  - Password
- After logging in the user can view the properties they have uploaded or bookmarked

Priority: 49
Story points: 8

6.1 User: Homeowner

User Story 6.1.1:

As a homeowner, I can provide all the relevant information about a property, so that I can upload the property for other users to see.

Acceptance criteria:
- There is available space for the following information
  - Address
  - Type
  - Price
  - Size
  - Availability
- Photos of the property can be uploaded in the following file types
  - File types: PNG, JPG, JPEG
- The property can be uploaded to the website

Priority: 100
Story Points: 7

User Story 6.1.2:

As a homeowner, I can update the information about my property, so that I can keep relevant data on display for other users.

Acceptance criteria:
- All the details about the property can be updated.
  - Address
  - Type
  - Price
  - Size
  - Availability
  - Contact information
- Updates can be done at any point in time.

Priority: 70
Story Points: 5

User Story 6.1.3:

As a homeowner, I can view other properties in a specified area, so that I can keep track of the market prices around my home.

Acceptance criteria:
- The following filters are available
    - City
    - Address
    - Size
    - Price
    - Type
    - Suitability (number of people, gender, nationality).
- The final results of the search are shown to the customer.
- If there are no properties available, the customer is notified.

Priority: 30
Story Points: 8

6.2 User: Customer

User Story 6.2.1

As a customer, I can provide filters about what I am looking for, so that I can find a relevant property I am satisfied with.

Acceptance criteria:
- The following filters are available
    - City
    - Address
    - Size
    - Price
    - Type
    - Suitability (number of people, gender, nationality).
- The final results of the search are shown to the customer.
- If there are no properties available, the customer is notified.

Priority: 95
Story Points: 7

User Story 6.2.2

As a customer, I can see the contact information that the homeowner has provided, so that I can get in touch with him.

Acceptance criteria:
- The following contact details of the property owner are visible.
    - Name
    - Contact info

Priority: 25
Story Points: 2

User Story 6.2.3

As a customer, I can bookmark properties, so that I can keep track of their price and availability.

Acceptance criteria:
- A functioning "Bookmark" button is available
- The bookmarked properties are added to a list that can later be viewed by the user.

Priority: 10
Story Points: 5

User Story 6.2.4

As a customer, I can bookmark properties that I am interested it, so that I can receive frequent updates about them via email.

Acceptance criteria:
- Properties are bookmarkable.
- Users receive emails when the property has been updated or rented out.

Priority: 20
Story Points: 9