Accommodation Web Portal

Project Proposal

Team Name: Suda

Scurm master:
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Submission date:
9 Aug 2018

1 Background

The project is focused on the area of renting house website, for example, the popular website Airbnb, which already successfully implemented the most functions. Therefore, Airbnb is an existing system for renting a house which can be used by the landlord and customers.

Furthermore, this website also contains a couple of drawbacks. Firstly, it doesn't allow the landlords to judge the customers. Therefore, landlords cannot choose their tenants with their evaluations, then it is hard for them to avoid rent their house to these people they can't get along with. Secondly, the users cannot add tags of themselves' taste about the house, therefore, they cannot get the accurate recommendation of the new available house.

2 Aim

The aim of this project is to implement the basic function of house renting system. Moreover, it should allow landlords to upload their house information and adjust their price anytime. It also needs to provide freedom for the user to search any type of houses and its prices which they are interested and provide reservation methods for them to get access to the house they like.

Furthermore, it also contains a management system for the developers which can do modifications to the whole system information at any time. The admin of the website should also have an extra function which cannot be done by landlords and tenants.

In addition, we also consider that this project may provide a convenient log in a way, which means that the customer can just use their 'google', 'facebook' or 'twitter' account to log in this website without registration.

3 Epics

3.1 Landlords System Module(Large)

3.1.1 Landlords upload house information

This main function of this module is to provide a pathway for the landlords to upload the information of their house. In this module, landlords have the ability of uploading

house information(address, architecture, picture, etc.) During this time they need to decide the price of the house, which they could get the recommendation from the system based on the information of they provide. In this stage, the landlords can upload the price of their house for a long period of time. Therefore they don’t need to bother to change their price many times.

3.1.2 Landlords modify their house information

Landlords can modify the information they upload at any time, therefore, they can change the price architecture of their house. Furthermore, they even could delete their house information if they want.

3.1.3 Evaluation part

In addition, when a transaction closed, the landlords have a change to evaluate the customer by scores(maximum 100 points), this evaluation will provide information for system to judge the customer. And this information will become a background consideration information for the next landlords to accept the rent request of this customer or not.

3.2 Tenants System Module (Large)

3.2.1 Accommodation search module

Tenants can get access to all the house information they are interested in the search function, they can search for information by different kinds of keywords they type in the search area. After this action, they can get the information which contains the picture and prices listed in the page. They also set filter requirements to avoid to get the information they don’t want.

3.2.2 Adding tags

Tenants can choose tags from tag pool for themselves or add new tags, these tags show the preferences of them in choosing a house. Based on this information, they users can get recommendations whenever based on their preferences.

3.2.3 Accommodation review module

After completing a transaction, the tenants have an opportunity to make a comment and mark a score about the house and the landlords. These comments will help

other tenants to choose to live in this house or not and publishes a review about properties.

3.2.4 Accommodation advertising module

This module is used for providers of accommodations to advertise properties and maintain their advertisements.

3.2.5 Visitor request module

This module is used to for users to put their requests and get a simple and useful feedback of the available accommodations. Furthermore, the users are available of select and book preferred accommodation as well.

3.3 Website Management System(medium)

This part is used to maintain the information of the whole website which contains the information of users and landlords as well.

This part is in charge of admin which can modfiy or delete any information as they wish.

3.4 Security Module(small, optional)

This part is used to ensure the security of the system, This part will contain the check of sql injection, Illegal character filtering and Encryption Algorithm which cannot be reverse decryption.

In this way, this security module can make the system still in a safety state which make the customers and landlords willing to put their private information in this website.

4 Scope

The tenants can only search and comment on the landlords which they have transactions, they can’t see the private information of the landlords and they can’t modify the information which not belong to them. While the landlords cannot change the comments of them and cannot see the furthermore information of the users.

5 Project Methodology

The project team is a group of four, with the Product Owner and Scrum Master roles rotated within the group members throughout the project durations.

IDE: Sublime3, Pycharm
Code management: Github
Programming language: Python3
SCRUM: Trello
Framework: Django

5.1 Project Scrum

Scrum team:

Xiaoyun Shi (z5104857@ad.unsw.edu.au)
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Fengyu Wang (z5050411@ad.unsw.edu.au)
Li Chen (z5100331@ad.unsw.edu.au)

Scrum master: Jintao Wang
Developer: All scrum team
Weekly Meeting Times: 14-16 Tue

Project deliverables include fortnightly project progression demos, with a final project demonstration and report on the 16th of October. More details on the schedule are shown below.

5.2 Schedule

Fri 10th Aug	Project Proposal	Week 3
Tue 14 Aug	Progress Report	Week 4
Tue 28 Aug	Progress Demo	Week 6
Tue 11 Sep	Progress Demo	Week 8
Tue 2 Oct	Progress Demo	Week 10
Tue 16 Oct	Project Demo & Report	Week 12
Tue 16 Oct	Software Quality	
Tue 16 Oct	Peer Assessment	