**Vision Document for “House Rental Management system”**

***Team members:***

Bruk Andemariam : 110447

Eyob Habtom: 110931

Jirom Mebrahtu: 110598

Selam Ghide: 110468

1. Introduction

Changing you address whether it is for a very short or long time can be difficult and very stressful. If the person changing location doesn’t have information of the place he is visiting it will even make his experience more difficult.

In traditional way in order to rent a house the customer have to visit physically to a company that provides a list of houses to rent and visit the place where the house is located and see the houses condition, then the customer can rent the house if it is suitable and the price is affordable. But this creates a problem, because the customer does not know if the house, he/she want is available or not or even if there are houses available within the city he/she is visiting. If the customers does not get what they want this will just causes waste of time and energy. And this will prevent a person to have a proper and efficient plan for his/her visit. On top of that, in order to process your order someone must be there for you to process your request and the person or company must be open at that time.

Another major problem is if there is not even a company you can visit, and there is only just private owner who wants to rent their houses, in this case it’s almost impossible to find those owner’s houses in a city you don’t know.

So in order to make our visit to a new place easier there is a way we can be able to see if there are houses to rent in the place we are visiting and compare and contrast the prices if there are more than one house posted in that area.

This is online house rental enterprise architecture, referred as eHouseRent. It is a Web Based Application designed to serve to major use cases that has the need to provide the searching and booking services online. The system’s aim is to provide better business management and customer satisfaction by providing the following main services

* The user gets access to the requested resources by visiting the eHouseRent Management website. Once the data entered by the user is validated, user can book a house.
* Create an online access for customers so that they can create an account and make reservations online.
* Provide the owner of the house to create an account and post their houses

1. Positioning

2.1 problem statement

|  |  |
| --- | --- |
| The problem of | Managing the house booking system and the available houses |
| Affects | The customer and the owner |
| the impact of which is | Visiting physically is a waste of time and energy, and available houses must be updated frequently |
| Successful solution would be | To build an online house rental solution that allows a customer to search and book house effectively and in short period of time. And also provide for the owner to post his/her available houses |

2.2 Product Position Statement

|  |  |
| --- | --- |
| For | customer |
| Who | Needs to rent or borrow |
| The | house |
| That | *makes it possible with ease and effective way* |
| Unlike | *The traditional way which was a waste of time and energy in visiting and searching* |
| Our product | *Illuminates this problems making the customer experience pleasant, by providing the list of available houses based on different locations* |

3. Stakeholder Descriptions

3.1 Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| Name | Description | Responsibilities |
| Owner | Add , delete, edit houses | House owner is responsible for adding new house, editing and deleting the house |
| Customer | Searching ,booking and creating an account | Customer search available houses and book house. |
| Developer | Develops the system on the bases of the given document | Developers are responsible for developing the system features, fixing bug and maintaining the system’s availability |
| Tester | Testers use jUnit tool to test the system | Testers are responsible for integration testing |

3.2 User Environment

Number of people involved in completing the task? Is this changing?

One person can post a house and another can book that house, and this doesn’t change in time

How long is a task cycle? Amount of time spent in each activity? Is this changing?

Depends on the number of customers and network accessing the site at the same time

The systems minimum requirements are internet connection and web browser, In Future we can include mobile as a platform as a future enhancement.

Currently there are no other applications that our system will integrate

1. Product Overview

4.1 Product Perspective

*our application is independent application, which does not integrate with other applications*

4.2 Assumptions and Dependencies

*In running our application we assume there is an internet connection, a database to sore the data*

4.3 Needs and Features

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Problem |  | Need |  |  | Feature |  |  |  |
| Owner | | | | | | | | | |
| 1 | The owner provide the house for rent |  | Categorize the list of the houses based their location and type |  |  | Owner must be able to add, delete and edit house |  |  |  |
| 2. | The owner have to see the list of the rented houses |  | need to see and manage booking |  |  | Must search and view bookings |  |  |  |
| Customer | | | | | | | | | |
| 3 | Any customer can view the different houses in different location |  | Customer has to see available houses |  |  | Customer can see the available cars without login in |  |  |  |
| 4 | See the list of house and book |  | Customer can book house to rent |  |  | Customer can search and book house for a specific time |  |  |  |

4.4 Alternatives and Competition

we will make our system that the stakeholders should be satisfied. These can include our price are very affordable and lower than any price you can get in the market. It will be more competitive with other Airbnb like vice, hidden gems, one’sown. It will give 24 hours customer support and additional it will be reach us through calls and emails.it will give flexible refund and reservation cancellation options. any customer can cancel your reservation with in 48 hours of booking the house freely. And our service have 5 -star rating.

5. Other Product Requirements

Our system must will support up to 300 simultaneously customers at a time, it will be accessible in everywhere with in short time and less energy. Our system must maintainable whenever if we want to improve, we can do it. Others also our system must provide reusability scalability, and it allows to run in anywhere. Finally our system must include the design pattern, that gives or provide a flexible solution for the problem that create object oriented on the system.