# Requirement Analysis

## 1.Introduction

Home search app

### 1.1 Background

Many customers can’t find a place to buy, sell, rent house.We provide them a platform.

## 2.Project Summary

### 2.1 Target

Build a platform for customers to buy, sell, rent house via agent.

### 2.2 Product Function

A).Customers can Buy House

B).Customers can Rent House

C).Customers can Sell House

D).Customers can register/login

### 2.3 Product System Flow Chart

Ellipsis

### 2.4 Customer Features:

It can be anyone who has demand to buy/sell/rent house via using the PC browser

### 2.5 Assumptions and constraints

Due to limited knowledge and time constraints, some functions of this system need to be improved.

## 3.Specific Task Requirements

### 3.1 Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Module | Functions | Reference | Person in charge |
| Buy | Search:home  Search:details search  Create:save search in user account | <https://www.zillow.com/homes/> | Xin Ma |
| Rent | Search:home  Search:details search  Create:save search in user account | <https://www.zillow.com/homes/for_rent/> | Yizhe Zhang |
| Sell | Create: add house for sale by self or by agent  Update: update house info  Delete: delete house info  Search:evaluate home value | <https://www.zillow.com/sell/> | Xiaoran Li |
| Login | Search: Login  Create: register  Update: account info  \*session status hold | <https://www.zillow.com/> | Weikai Chen |
| Agent(optional) |  | <https://www.zillow.com/agent-finder/real-estate-agent-reviews/> | Xiaoran Li  Weikai Chen |
| Loan(optional) |  | [https://www.zillow.com/home-loans/#source=Z\_Mortgagestopnav](https://www.zillow.com/home-loans/" \l "source=Z_Mortgagestopnav) | Xin Ma |
| Manage Rentals(optional) |  | <https://www.zillow.com/rental-manager/?source=topnav&itc=postbutton_sitenav> | Yizhe Zhang |

### 3.2 Performance Requirements

#### 3.2.1 Accuracy

The digital accuracy of the application for data input is 2 digits after the decimal point

#### 3.2.2 Time

No requirements

#### 3.2.3 Flexibility

In view of the possible problems in the running of the application program, the code can be modified and improved in function; in the running environment, the equipment running the system can be upgraded in software, and special additional functions can be set for people in different fields

### 3.3 Reliability

No requirements

### 3.4 Fault Handling

No requirements

### 3.5 Running environment

Client Hardware requirements:

No

Server Hardware requirements:

No

### 3.6 User interface

Font: white/black/deepskyblue/steelblue(active) Arial

1em text

1.1em title

3.5em big title

Background: pic

Navigation Bar: transparent

### 3.7 Possible future requirements

Ellipsis

## 4.Design

DB: customer

**Collection: account**

{

user\_id

username

password

email

phone

balance

rentout:

{

"$ref": "rentoutCollection",

"$id": ObjectId(""),

"$db": "customer"

}

rentin:

{

"$ref": "rentinCollection",

"$id": ObjectId(""),

"$db": "customer"

}

}

**Collection: rentoutCollection**

{

rentout\_id

home\_description:

{

"$ref": "homeDesc",

"$id": ObjectId(""),

"$db": "customer"

}

home\_availablestatus

rentout\_price

history:

{

"$ref": "historyCollection",

"$id": ObjectId(""),

"$db": "customer"

}

receive\_rent

}

**Collection: rentinCollection**

{

rentin\_id

home\_description:

{

"$ref": "homeDesc",

"$id": ObjectId(""),

"$db": "customer"

}

home\_status

rentin\_price

Already\_payrent

}

**Collection: homeDesc**

{

price

home\_type

location

area

bedroom\_no

bathroom\_no

}

**Collection: historyCollection**

{

order\_id

rentin\_user

rentout\_user

}