# **Jersey City Rental Website**

* Hao Wang
* Qianyi Zhang
* Congmin Sui
* Weijie Pan

## **Users** The User collection will store all users. Users will be able to login, post their houses (optional), and store the information about others house. An array of the house id’s the user posted. An array stores comments that are related to the user in the comments sub-document.

{

"\_id": "c837629f-4051-4708-a6e3-0a9e667f6c78",

"username": "John",

"email": "JDoe@gmail.com",

"phoneNumber": "201-123-4567",

"hashedPassword": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5HOskfVn7.PWncShU.O",

"listingCount": 3,

"houseLists": [

"200fd3be-de84-4f50-a440-dd00dd29ca63",

"200fd3be-de84-4f50-a440-dd00dd29ca64",

"200fd3be-de84-4f50-a440-dd00dd29ca65"

],

"storedHouses": [

"200fd3be-de84-4f50-a440-dd00dd29cd38",

"200fd3be-de84-4f50-a440-dd00dd29ccf3"

],

"comments": [{

"\_id": "200fd3be-de84-4f50-a440-dd00dd29cd38",

"commentDate": "10/1/2019",

"comment": "I like this apt, I've sent an email to you"

}]

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | A globally unique identifier to represent the user (host). |
| username | string | A string represents users name |
| email | string | A string of users email which format must be validate |
| phoneNumber | string | A string represents users phone number, and format should be : xxx-xxx-xxxx |
| hashedPassword | string | The password when users log in. |
| listingCount | number | A number represents the number of houses the user posts to the website. E.g., if user posts two houses to the website for rent, his “listingCount” is 2 |
| houseLists | array | An array that store the house\_ids which users posted to the website. The length of the array should be the same of listingCount |
| storedHouses | array | An array that stores the house\_ids which users click “Favorite”. E.g., if user is interested in someone’s posted house, he/she could add it to his/her stored houses |
| comments | Sub-document | Comments is a Subdocument that stores the comments for a house. \_id refers to house\_id. For example, John makes a comment to a house, then the \_id is house\_id. |

## **Houses** The Houses collection will store all the houses information updated by users (hosts). An array of the house’s pictures the user posted. It stores comments that are related to the house in the comments sub-document.

{

"\_id": "200fd3be-de84-4f50-a440-dd00dd29cd38",

"houseInfo": "313 7th St, Jersey City, NJ 07302",

"postedDate": "10/1/2019",

"statement": "Beautiful apt., 10 min subway ride to Manhattan",

"host\_id": "df21d66f-408a-4870-8986-3500ad1a5ab8",

"host\_name": "Martin",

"latitude": 40.72613,

"longitude": -74.04811,

"roomType": "Entire home/apt",

"price": 163,

"pictures": [

"68d64f14-b4cc-4aa2-a587-f0c61d8b8fb5",

"68d64f14-b4cc-4aa2-a587-f0c61d8b8fb6"

],

"comments": [{

"\_id": "c837629f-4051-4708-a6e3-0a9e667f6c78",

"username": "John",

"commentDate": "10/1/2019",

"comment": "I like this apt, I've sent an email to you"

}],

"like": [

"c837629f-4051-4708-a6e3-0a9e667f6c78",

"c837629f-4051-4708-a6e3-0a9e667f6c79",

],

"dislike": [

"c837629f-4051-4708-a6e3-0a9e667f6c80",

"c837629f-4051-4708-a6e3-0a9e667f6c81",

]

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | Stores the house id. |
| houseInfo | string | Store the fundamental information of house. Should be the detail of its position. E.g. 313 7th St, Jersey City, NJ 07302 |
| postedDate | date | Store the date that the houses posted. |
| statement | string | Statement is filled by users when they post the house, it is something like the introduction of it. E.g. Jersey City, 1-Bedroom Garden Apt. |
| host\_id | string | Stores the user (host, house owner, broker etc) id. |
| Host\_name | string | Stores the user (host, house owner, broker etc) name. |
| latitude | number | Latitude of the house. |
| longitude | number | Longitude of the house. |
| roomType | string | Store the type of the house, example: shared room, entire home/apt, shared room. |
| price | number | Store the price of the rented house. |
| pictures | array | An array that store the house pictures which users posted to the website. |
| comments | Sub-Document | Comments is a Subdocument that stores the comments for a house. \_id refers to user\_id. For example, John makes a comment to this house, then the \_id is John’s id. |
| like | array | like is an array that stores id of users like the house. |
| Dislike | array | dislike is an array that stores id of users like the house. |

## 

## **Comments** Comments is a subdocument of the houses collection.

"comments": [{

"\_id": “200fd3be-de84-4f50-a440-dd00dd29cd38”,

"user\_id": “c837629f-4051-4708-a6e3-0a9e667f6c78”,

"username": "John",

"commentDate": "10/1/2019",

"comment": "I like this apt, I've sent an email to you"

}]

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | House\_id. |
| user\_id | string | User\_id, in the example, its John’s ID. |
| commentDate | date | The date the comment be made by the user. |
| comment | string | The comment text. |
| username | string | The name of the person who posted the comment. |