**Final Project Database Proposal**

Group Member:

Zhanming Bai, Shengda Zhang, Zichong Wang, Yun Yang, Shuoyu Wang

**Users Collection**

The user collection will store all users. Users will be able to login, update their information, and post comments.

{  
 "firstName": "Josh”  
 “lastName”: “Woodward",  
 "Email": "Josh@gmail.com",  
 "Gender": "M",  
 "City": "Hoboken",  
 "State": "NJ",  
 "BOD": "03/25/1997",

"Phone": "909-655-7823",  
 "\_id": "7b7997a2c0d24f8cb27a6a1d4b5b6310",  
"hashedPassword": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5HOskfVn7.PWncShU.O",

“Register\_date”: “10/26/2020”,

“Post\_id”:[“7b7997a2c0d24f8cb27a6a1d4b5b6889”, “7b7997a2c0d24u76dt7a6a1d4b5b6889”]

“comment\_id”: [“7b7997a2cuirr68cb27a6a1d4b5b6889”, “7b785thyc0d24u76dt7a6a1d4b5b6889”]

“saved\_posts\_id”: [“7b7997a2c0d24f8cb27a6a1d4b5b6889”, “7b7997a2c0d24u76dt7a6a1d4b5b6889”]

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | A globally unique identifier to represent the user. |
| hashedPassword | string | Store the password after use hash function encryption |
| Post\_id | array | An array that store the post\_ids which users created. |
| comment\_id | array | An array that store the comment\_ids which users created. |
| Saved\_posts\_id | array | An array that store the ids the user want to review later |

**Comments Collection**

Comment is a subdocument of the **Posts** collection.

“Comment”: {

“\_id”: ”abceddfmqw213sda”,

“user\_Id”: ”sflqerfmsdw33”,

“post\_id”: “asbcasdwejklas”,

“content”: ”A nice Comment”,

“date”: mm/dd/yy}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | The comment ID. |
| user\_id | string | The ID of the user who comments on the post. |
| post\_id | string | The ID of the post the user comments on |
| content | string | The content of comment |
| date | date | The date user commented on the post |

**Posts Collections**

**The rent information post by the users.**

Rent Posts:

“user\_id“: “5e6b78bca77fbebfd40e6df1”

“post\_id“: “871982708es312sesde3414”

“post\_title“: “Okemos apartment re-rent”

“address“: “205 hudson street”

“state“: “NJ”

“city “: ”Hoboken”

“zipcode “: “07030”

“house\_img“: “/static/example.jpg,

“house \_description“: “This is house is pretty beautiful and comfortable”

“post\_date“: mm/dd/yy,

“house\_tag“: “apartment”:

“contact phone number”: “517-777-7777”,

“Price”: “2000$ per/months”

“contact email”: “wantrent@gmail.com”

“comments\_Id“: [“871982708es312sesde3414”, “456982708es312sesde3414”]

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| user\_id | string | A globally unique identifier to represent the user |
| post\_id | string | unique identifier to represent the each post |
| post\_title | string | Title of the post name |
| address | string | Address of the rent information |
| city | string | City of the rent house |
| state | string | State of the rent house |
| zipcode | string | zipcode of the rent house |
| house\_img | string | img of rent house |
| house \_description | string | Description of the house status |
| post\_date | date | Date of the post |
| house\_tag | string | Tags for house, like apartment or house |
| contact email | string | Email contact information |
| contact phone number | string | Phone number contact information |
| Price | string | Price for rerent |
|  |  |  |
| comments\_Id | Array | An array that stores references(ids) to coments |

**Manager Users Collections**

The manage user collection will store all manager accounts. Manager will be able to login. Furthermore, manager can delete comments and posts post by other users.

{  
 "Manager title": "Manager1011”,  
 "Email": "Josh@gmail.com",

"\_id": "7b7997a2c0d24f8cb27a6a1d4b5b6310",  
"hashedPassword": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5HOskfVn7.PWncShU.O"

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | A globally unique identifier to represent the user. |
| hashedPassword | string | Store the password after use hash function encryption |