

**FU House finder**

**Software Design Document**

– Hanoi, Sep 2022–

**Table of Contents**

[III. Database Tables 3](#_Toc114085453)

[1. Campus 3](#_Toc114085454)

[2. User 3](#_Toc114085455)

[3. House 3](#_Toc114085456)

[4. Room 3](#_Toc114085457)

[5. Rate 4](#_Toc114085458)

[6. ImageOfHouse 4](#_Toc114085459)

[7. ImageOfRoom 4](#_Toc114085460)

# III. Database Tables

## 1. Campus

*Store the information of alls campus for users*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | CampusID | int |  |  | Yes | PK |  |
| 2 | CampusName | nvarchar | 100 |  |  |  |  |

## 2. UserRole

*Store the information of alls roles of users*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | RoleId | int |  |  | Yes | PK |  |
| 2 | RoleName | nvarchar | 100 |  |  |  |  |

## 3. User

*Store the information of all users*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | UserId | nchar | 30 |  | Yes | PK | Include student id, host id and admission id;  Has specific convention to make |
| 2 | Username | nvarchar | 100 |  |  |  |  |
| 3 | Password | nvarchar | 100 |  |  |  |  |
| 4 | Email | nvarchar | 100 |  |  |  |  |
| 5 | PhoneNumber | nvarchar | 50 |  |  |  |  |
| 6 | RoleId | int |  |  |  | FK | To Table *Role* |
| 7 | CampusId | int |  |  |  | FK | To Table *Campus* |

## 4. House

*Store the information of all houses*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | HouseId | int |  |  | Yes | PK |  |
| 2 | HouseName | nvarchar | 100 |  |  |  |  |
| 3 | Address | nvarchar | 200 |  |  |  |  |
| 4 | Information | nvarchar | 500 |  |  |  |  |
| 5 | HostId | nchar | 30 |  |  | FK | To Table *User* |

## 5. Room

*Store the information of all rooms*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | Id | int |  |  | Yes | PK |  |
| 2 | Name | nvarchar | 50 |  |  |  |  |
| 3 | Price | money |  |  |  |  |  |
| 4 | Address | nvarchar | 200 |  |  |  |  |
| 5 | Type | nvarchar | 50 |  |  |  |  |
| 6 | Information | nvarchar | 500 |  |  |  |  |
| 7 | Utilities | nvarchar | 500 |  |  |  |  |
| 8 | Area | float |  |  |  |  |  |
| 9 | NumOfBulding | int |  |  |  |  |  |
| 10 | Range | int |  |  |  |  |  |
| 11 | Floor | int |  |  |  |  |  |
| 12 | NumOfRoom | nvarchar | 50 |  |  |  |  |
| 13 | IsAvailable | int |  |  |  |  |  |
| 14 | HouseId | int |  |  |  | FK |  |

## 6. Rate

*Store the information of all rates*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | Star | int |  |  |  |  |  |
| 2 | Comment | nvarchar | 500 |  |  |  |  |
| 3 | HouseId | int |  |  |  | FK |  |
| 4 | StudentId | nchar | 10 |  |  | FK |  |

## 7. ImageOfHouse

*Store the information of all pictures of house*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | ID | int |  |  | Yes | PK |  |
| 2 | ImageLink | nvarchar | 500 |  |  |  |  |
| 3 | HouseId | int |  |  |  | FK |  |

## 8. ImageOfRoom

*Store the information of all pictures of room*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | ID | int |  |  | Yes | PK |  |
| 2 | ImageLink | nvarchar | 500 |  |  |  |  |
| 3 | RoomId | int |  |  |  | FK |  |