

**FU House finder**

**Software Design Document**

– Hanoi, Sep 2022–

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# III. Database Tables

## 1. Campus

*Store the information of alls campus*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | CampusID | int |  |  | Yes | PK |  |
| 2 | CampusName | nvarchar | 50 |  |  |  |  |

## 2. User

*Store the information of all users*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | Id | nchar | 10 |  | Yes | PK | Include student id, host id and admission id |
| 2 | Name | nvarchar | 50 |  |  |  |  |
| 3 | Dob | date |  |  |  |  | Date of birth |
| 4 | Phone | nvarchar | 50 |  |  |  |  |
| 5 | Email | nvarchar | 100 |  |  |  |  |
| 4 | Password | nvarchar | 100 |  |  |  |  |
| 5 | Role | int |  |  |  |  |  |
| 6 | CampusID | int |  |  |  | FK |  |

## 3. House

*Store the information of all houses*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field name** | **Type** | **Size** | **Unique** | **Not Null** | **PK/FK** | **Notes** |
| 1 | Id | int |  |  | Yes | PK |  |
| 2 | Name | nvarchar | 50 |  |  |  |  |
| 3 | Address | nvarchar | 200 |  |  |  |  |
| 4 | Information | nvarchar | 500 |  |  |  |  |
| 5 | Host | nchar | 10 |  |  |  |  |

## 4. 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 |  |

## 5. 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 |  |

## 6. 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 |  |

## 7. 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 |  |