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| Ahsanullah University of Science and Technology | | | |
| Department of Computer Science and Engineering | | | |
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|  | | | |
| Project Name : | | **Car Parking Management System** | |
| **Couse Name:** | | Database Lab | |
| **Couse ID:** | | CSE 3104 |  |
| **Semester :** | | FALL 2018 |  |
|  | |  |  |
| **Group : 06** | | Name: Md. Zahid Fesabelilla | |
|  | | ID : 160204082  Name : Arafath Hossain  ID : 160104029 (re-ad) | |
|  | |  | |
|  | |  | |

Database Tables:

**Table 01: User**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| UserId | Int | P.K (IS: 1001) |
| UserName | Varchar(50) | Not Null |
| Password | Varchar(50) | Not Null |
| FirstName | Varchar(50) | Not Null |
| LastName | Varchar(50) | Not Null |
| Phone Number | Varchar(15) | Not Null |
| Licence Number | VarChar(100) | Not Null |
| NID Number | VarChar(50) | Not Null |
| Gender | VarChar(10) | Not Null |
| Image | image | Not Null |
| User Type | VarChar(10) | Null |
| Review | Varchar(10) | Null |

**Table 02: Owner**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| OwnerId | Int | P.K (IS: 2001) |
| FirstName | VarChar(50) | Not Null |
| LastName | VarChar(50) | Not Null |
| Phone Number | VarChar(50) | Not Null |
| Address | VarChar(150) | Not Null |
| NID Number | VarChar(50) | Not Null |
| Gender | VarChar(10) | Not Null |
| Image | image | Not Null |
| Parking Slots | int | Not Null |
| Review | VarChar(50) | Null |

**Table 03: Owner Address**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| OwnerId | Int | F.K (IS: 2001) |
| AddressId | Int | P.K (IS: 3001) |
| Area | Varchar(100) | Not Null |
| Sector | Varchar(50) | Null |
| Road Number | Varchar(50) | Null |
| House Number | Varchar(50) | Not Null |

**Table 03: Parking Slot**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| OwnerId | Int | F.K (IS: 2001) |
| SlotId | Int | P.K (IS: 4001) |
| Size | Decimal | Not Null |
| Starting Time | Varchar(50) | Null |
| Ending Time | Varchar(50) | Null |
| CCTV | Boolean | Null |
| Price | Decimal | Not Null |
| Caretaker | Boolean | Null |

Database Relations:

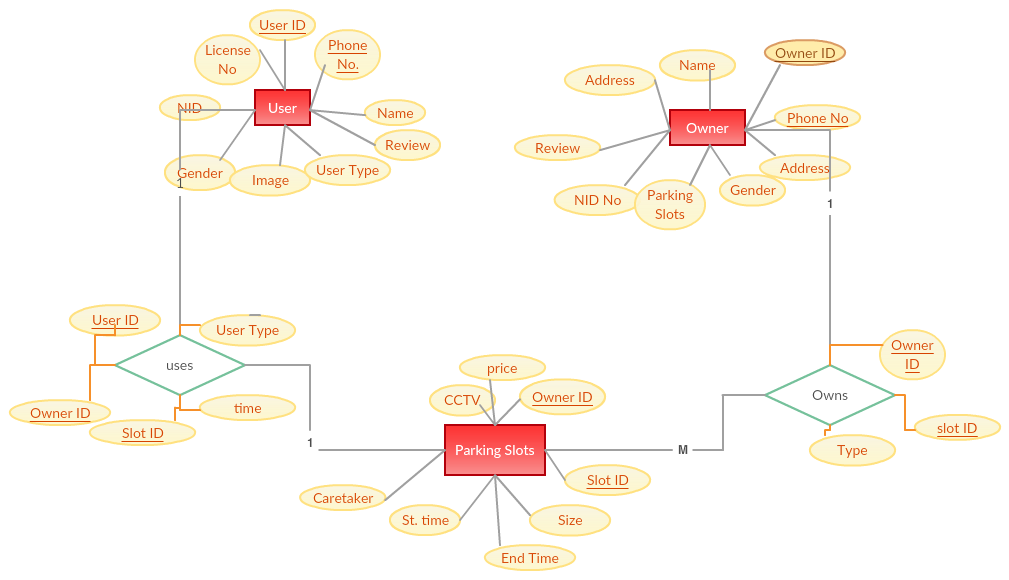
**Relation 01: Uses**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| UserId | Int | F.K (**User**) |
| OwnerId | Int | F.K (**Owner**) |
| Time | Varchar(50) | Null |
| UserType | Varchar(50) | F.k(**User**) |
| Slot Id | INT | P.k |
|  |  |  |

**Relation 02: Owns**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Constraint** |
| SlotId | Int | F.K (**Parking Slot**) |
| OwnerId | Int | F.K (**Owner**) |
| Type | Varchar(20) | Not Null |

**Entity Relationship Diagram:**

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