* **Low Level Design:**
* **Database Design:**

**1] Role**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Role ID |
| Role | Varchar(45) | No |  | Null | Which type of user is enrolled. |

**2] Login**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Carowner Passenger ID |
| Roll\_id | Integer | No | Foreign key | Null | Reference to roll\_id(Tbl Role) |
| login\_id | Varchar(100) | No |  | Null | Login\_id |
| Password | Varchar(100) | No |  | Null | Password |
| Status | Bit(1) | No |  | Null | Login Status |

**3] Users**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Admin ID |
| Login\_id | Integer | No | Foreign key | Null | reference to Login\_id(Tbl\_login) |
| Password | Varchar(45) | No |  | Null | Password of user |
| Aadhar\_no | Varchar(45) | No |  | Null | Aadhar number |
| Fname | Varchar(100) | No |  | Null | First name of Car-owner |
| Lname | Varchar(100) | No |  | Null | Last name of Car-owner |
| Gender | Varchar(45) | No |  | Null | Gender of Car-owner |
| dob | date | No |  | Null | Date of Birth of Car-owner |
| Phone-no | Varchar(45) | No |  | Null | Phone no of Car-owner |
| Primary email | Varchar(100) | Yes |  | Null | email id of Car-owner |
| secondary\_email | Varchar(100) | Yes |  | Null | Secondary email id of Car-owner |

**4] co\_passenger**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Co-passenger ID |
| Passenger\_id | Integer | No | Foreign key | Null | Reference to Uid (Tbl\_User) |
| Aadhar\_no | Varchar(45) | Yes |  | Null | Aadhar no of co\_passenger |
| phone\_no | Varchar(45) | Yes |  | Null | Phone no of co\_passenger |
| email | Varchar(45) | Yes |  | Null | Email of co\_passenger |
| fname | Varchar(45) | No |  | Null | First name of co\_passenger |
| lname | Varchar(45) | No |  | Null | Last name of co\_passenger |
| Gender | Varchar(45) | No |  | Null | Gender of co\_passenger |

**5] Car\_company**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| Id | Integer | No | Primary key | Null | Admin ID |
| Company\_name | Varchar(100) | No |  | Null | Company name of car |

**6] Car\_Models**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| Id | Integer | No | Primary key | Null | Admin ID |
| Company\_id | Integer | No | Foreign\_key | Null | Reference to Car\_company\_id(Tbl\_**Car\_company**) |
| Model\_name | Varchar(200) | No |  | Null | Model name of car |
| Fuel\_type | Varchar(200) | No |  | Null | Fuel type of car |
| Model\_type | Varchar(200) | No |  | Null | Model type of car |

**7] Vehicles**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| Id | Integer | No | Primary key | Null | Admin ID |
| Users\_id | Integer | No | Foreign key | Null | reference to Users\_id(Tbl\_**users**) |
| Car\_Model\_id | Varchar(200) | No | Foreign key | Null | reference to Car\_Model\_id(Tbl\_**Car\_Model\_**) |
| Year | Integer | No |  | Null | Year of buying car |
| Color | Varchar(45) | No |  | Null | Color of car |
| Rc-book | Varchar(45) | No |  | Null | Registration card of car owner |

**8] Rides**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Ride Id |
| Users\_id | Integer | No | Foreign key | Null | Reference to Users\_id(Users\_Tbl) |
| Start\_Location | Varchar(200) | No | Foreign key | Null | Reference to Cid (Tbl\_City) |
| End\_Location | Varchar(200) | No | Foreign key | Null | Reference to Cid (Tbl\_City) |
| Vid | Integer | No | Foreign key | Null | Reference to Vid (Tbl\_Vehicle) |
| time\_and \_date\_of\_departure | datetime | No |  | Null | Time and date of departure |
| time\_of\_arival | datetime | No |  | Null | Arrival time |
| price\_per\_seat | Integer | No |  | Null | Price per seat amount |
| Available\_seats | Integer | No |  | Null | Total available seats in car |
| status | Varchar(100) | Yes |  | Null | Ride is confirmed or not |

**9] Booking**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Booking ID |
| Co\_passenger\_id | Integer | No | Foreign key | Null | Reference to Co\_passenger\_id(Tbl\_Co\_passenger) |
| Ride\_id | Integer | No | Foreign key | Null | Reference to Ride\_id(Tbl\_Ride) |
| Time | datetime | No |  | Null | Booking time |
| No\_of\_seats | Integer | No |  | Null | How many seats are booked |
| Total\_price | Integer | No |  | Null | Total price acc to passenger |
| status | Varchar(100) | No |  | Null | Status of booking confirmation or not |

**10] Payment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | Payment ID |
| Booking\_id | Integer | No | Foreign key | Null | Reference to Booking\_id(Tbl\_Booking) |
| Co\_passenger\_id | Integer | No | Foreign key | Null | Reference to Co\_passenger\_id(Tbl\_Co\_passenger) |
| Amount | Integer | No |  | Null | Total amount |
| Date-Time | datetime | No |  | Null | Date and time of payment |
| Payment\_method | Varchar(45) | No |  | Null | Permanent method |
| status | Varchar(100) | No |  | Null | Paymnt is succesfull or not |

**11] City**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | City Auto- incremented column |
| City | Varchar(45) | No |  | Null | City name |
| State\_id | Integer | No |  | Null | Reference to State\_id(Tbl\_State) |

**12] State**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Description** |
| id | Integer | No | Primary key | Null | State Auto- incremented column |
| State | Varchar(45) | No |  | Null | State name |