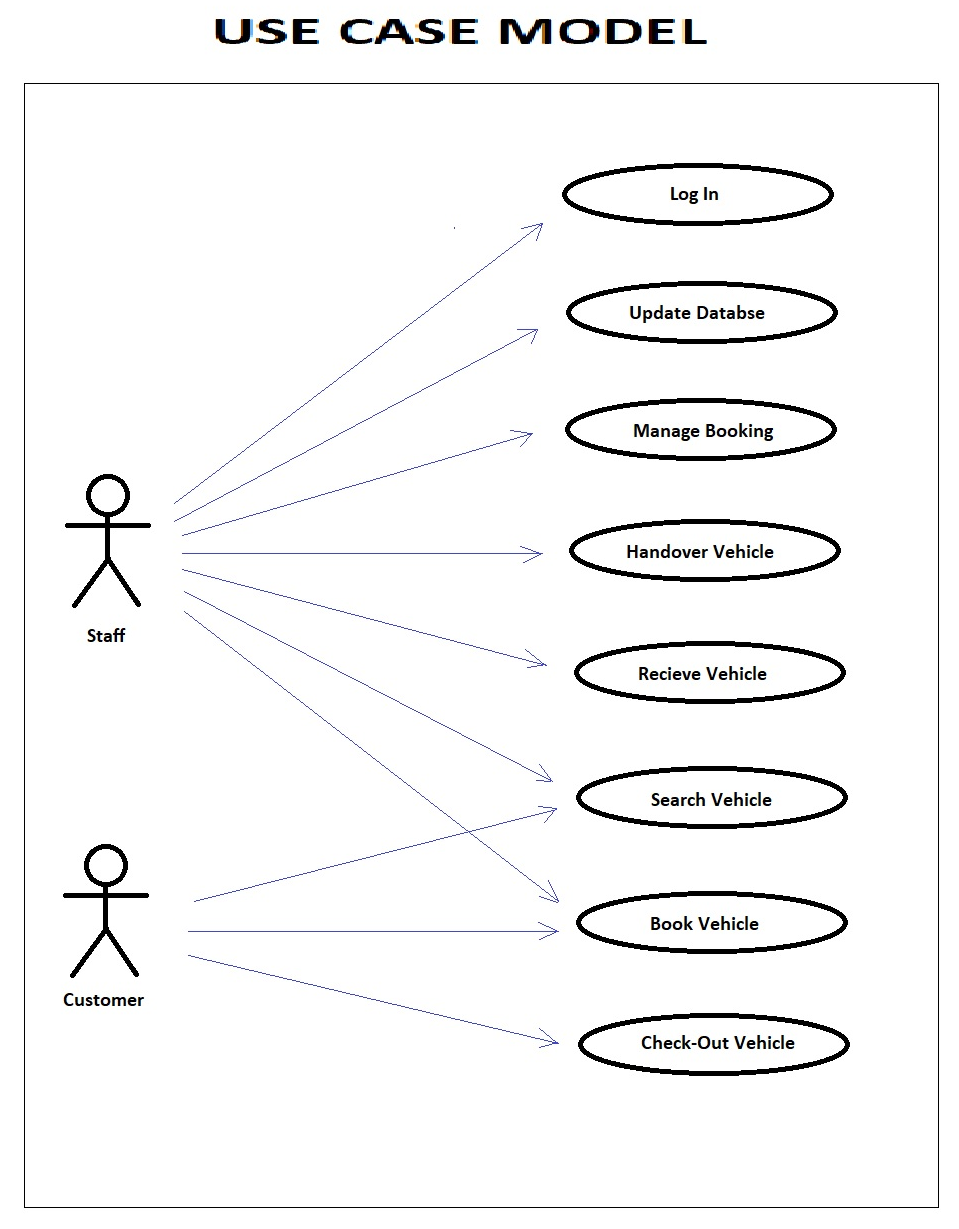
**Use Case Requirement Analysis**

**Team members:**

1. Bereket Abraham ID: 109671
2. Kaleb Workneh ID: 109670
3. Samrawit Haile ID: 109666
4. Senait Habte ID: 109707
5. Yosief Teklemariam ID: 109633



**Use Case Description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Number 1** | | | |
| **1** | **Name** | Staff Log In | |
|  | **Brief Description** | This use case allows staffs to login and logout in the system | |
| **2** | **Actors** | Staff | |
| **3** | **Pre-conditions** | | |
|  |  | | |
| **4** | **Basic Flow** | | |
|  | *User Actions* | | *System Actions* |
|  | **4.1** A staff logs in using his credentials | | The system verifies the staff's credentials and allows him to login it matches |
|  |  | |  |
| **5** | **Post-Conditions** | | |
|  | **5.1** The staff will be logged in to the system to perform CRUD operations | | |
|  |  | | |
| **6** | **Business Rules** | | |
|  | **6.1** Only staff with valid credentials can log in | | |
|  |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Number 2** | | | |
| **1** | **Name** | Update Database | |
|  | **Brief Description** | This use case will allow a staff to delete, update or add vehicle data as well other data | |
| **2** | **Actors** | Staff | |
| **3** | **Pre-conditions** | | |
|  | **3.1** The staff has to be logged in to the system | | |
|  |  | | |
| **4** | **Basic Flow** | | |
|  | *User Actions* | | *System Actions* |
|  | **4.1** The staff calls for the insert vehicle command | | The system displays the vehicle registration form so that the staff can fill in and save the vehicle details to the database |
|  | **4.2** The staff searches a vehicle in the list of vehicles and calls for remove command | | The system finds the vehicle and removes it from the database |
|  |  | |  |
| **5** | **Post-Conditions** | | |
|  | **5.1** New vehicle will be added to or removed from the system | | |
|  |  | | |
| **6** | **Business Rules** | | |
|  | **6.1** Vehicles with mileage more than 50,000 miles should be removed from the system | | |
|  | **6.2** Vehicles with bad conditions should be removed from the system | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Number 3** | | | |
| **1** | **Name** | Book Vehicle | |
|  | **Brief Description** | This use case will allow a staff or a customer to book a specific vehicle for some specific time | |
| **2** | **Actors** | Staff, Customer | |
| **3** | **Pre-conditions** | | |
|  |  | | |
| **4** | **Basic Flow** | | |
|  | *User Actions* | | *System Actions* |
|  | **4.1** The staff or customer calls for the book vehicle command | | The system displays the vehicle category and rental time selection dialog |
|  | **4.2** The staff or customer selects the vehicle category and rental time | | The system finds the available vehicles for the specified time and displays it along with the price |
|  | **4.3** The staff or customer selects the vehicle they want and confirms | | The system will the customer information form |
|  | **4.4** The staff or customer will fill in the customer information along with payment details | | The system will prompt for booking confirmation |
|  | **4.5** The staff or customer will confirm the booking | | The system will add the new booking and save to the database |
|  |  | |  |
| **5** | **Post-Conditions** | | |
|  | **5.1** New booking will be added to the system | | |
|  |  | | |
| **6** | **Business Rules** | | |
|  | **6.1** Customer should have a valid driver's license | | |
|  | **6.2** Customer should present a valid payment method and should pay at least one day rent in advance during booking | | |