**HỌC VIỆN QUỐC TẾ FPT**

FPT-ACADEMY INTERNATIONAL

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**Wonder Travelling**

**Development’s Guide**

**Faculty: …**

**Batch No: …**

**Group No: 1**

**Student:**

|  |  |  |
| --- | --- | --- |
| **No** | **Full Name** | **Roll No** |
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| 3 | Dieu Van Toan | Student912384 |
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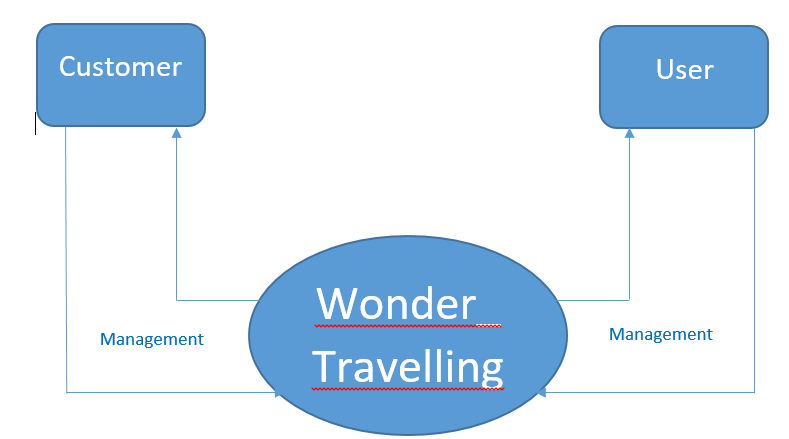
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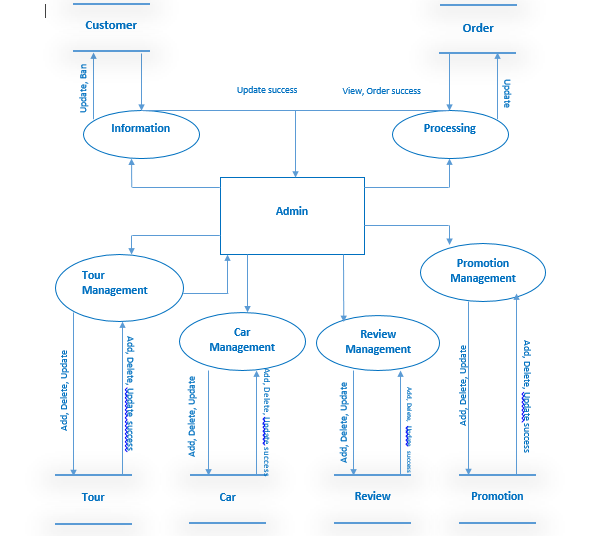
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REVIEW 2

# Data Flow Diagrams

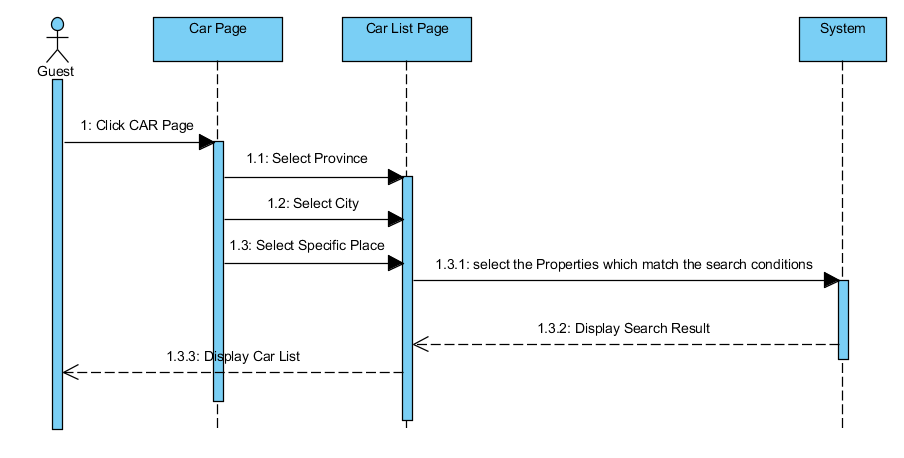




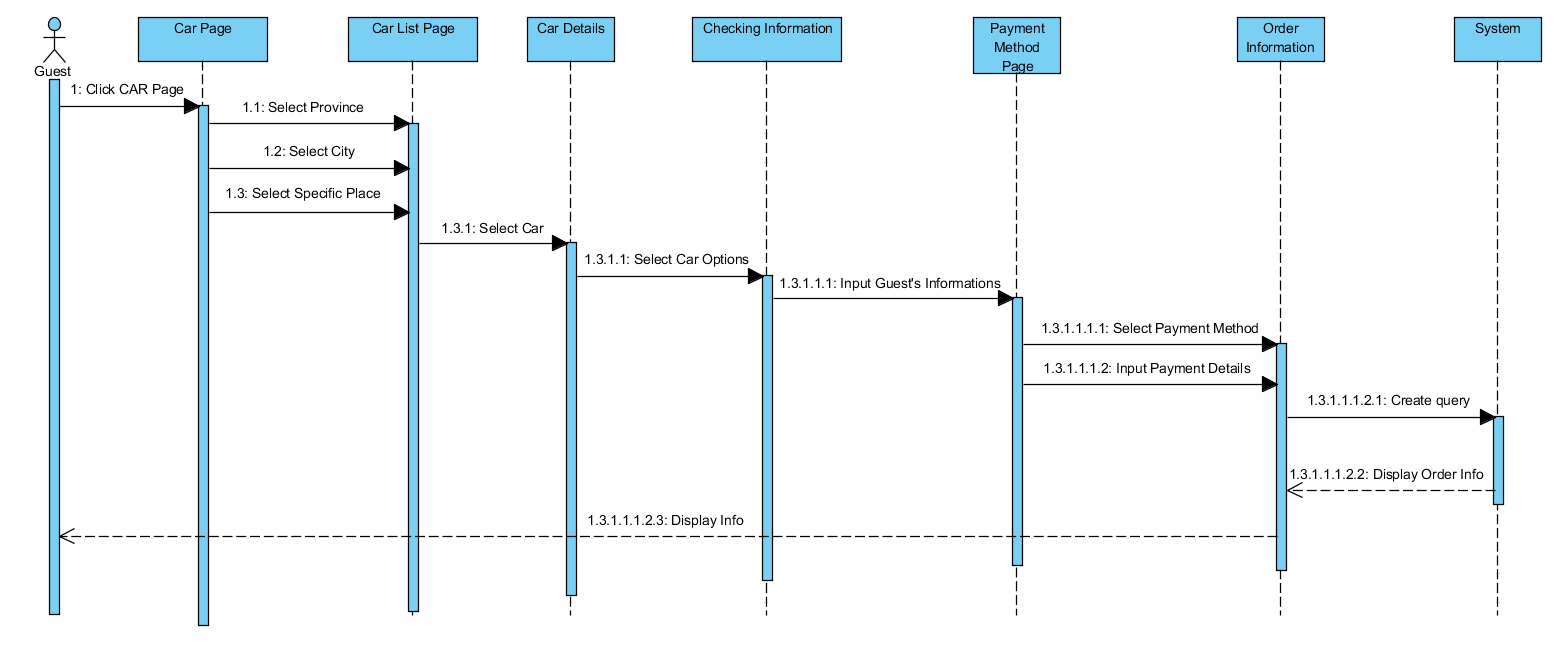
# Use Case Diagrams

1. **Sequence Diagrams**

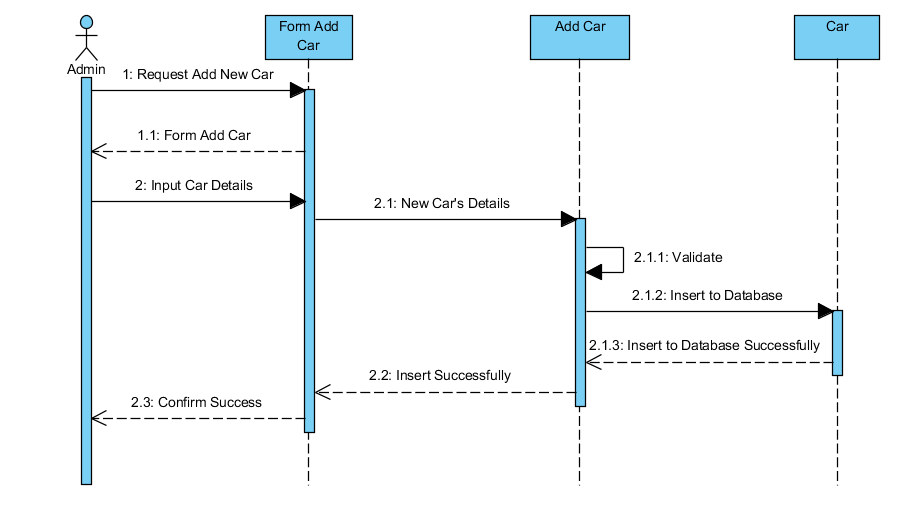
\*User Search Car



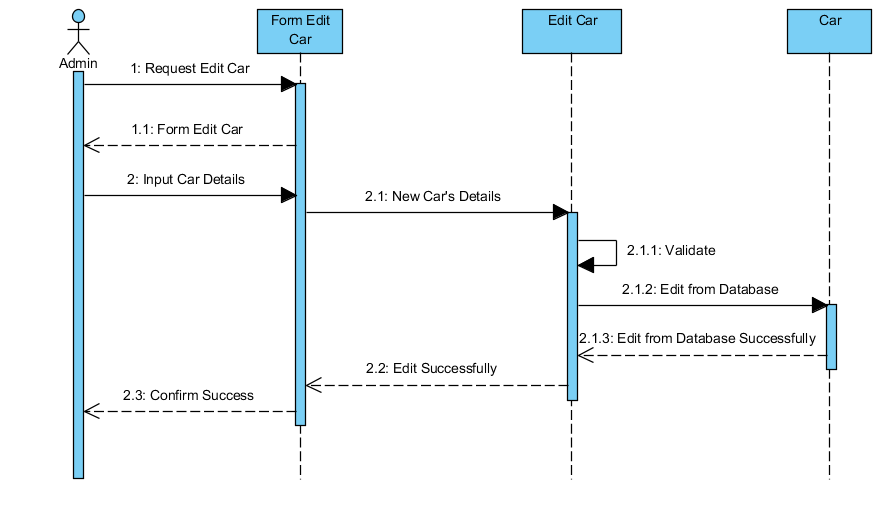
\*User Booking Car



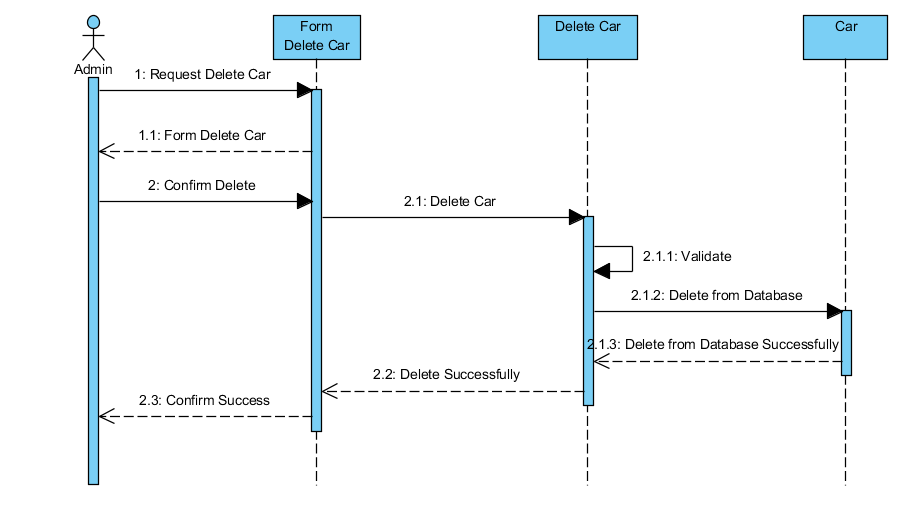
\*Admin Add New Car



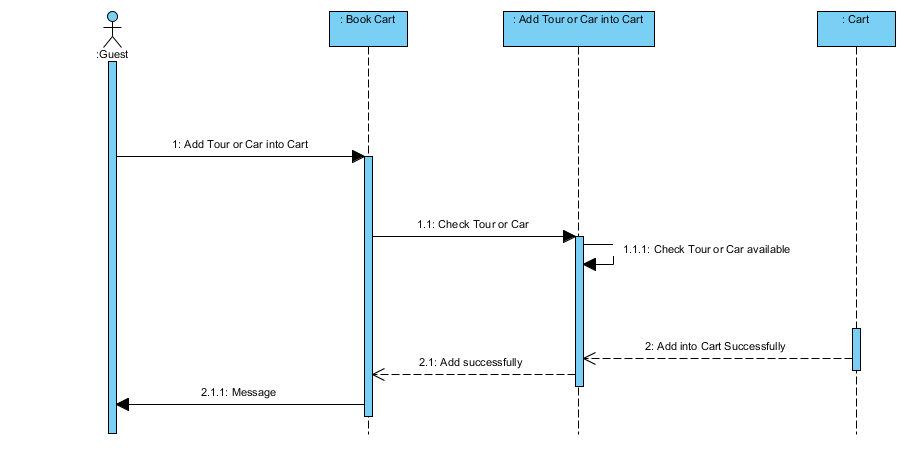
\*Admin Edit Car



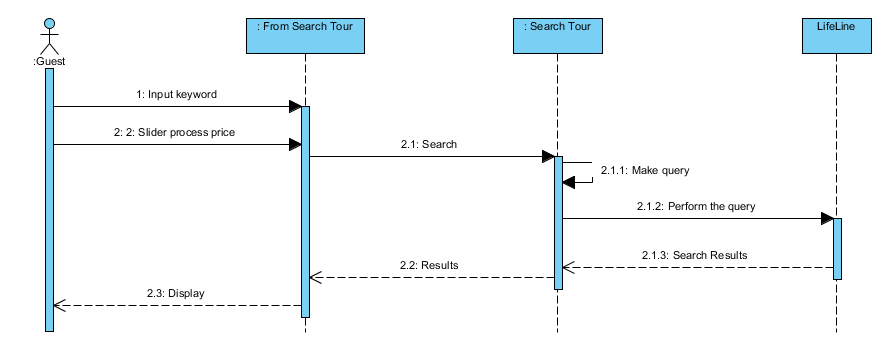
\*Admin Delete Car



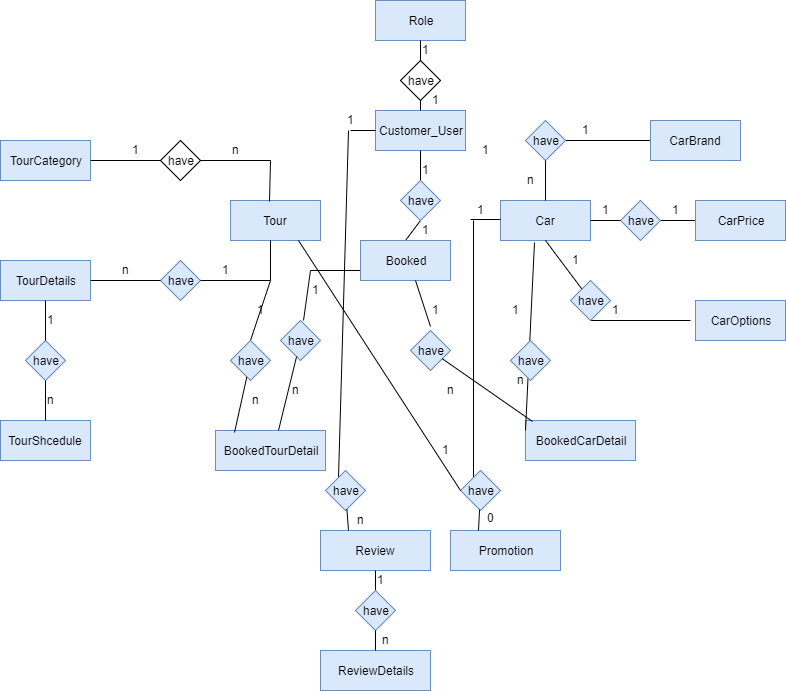
\*Add Tour or Car into Cart



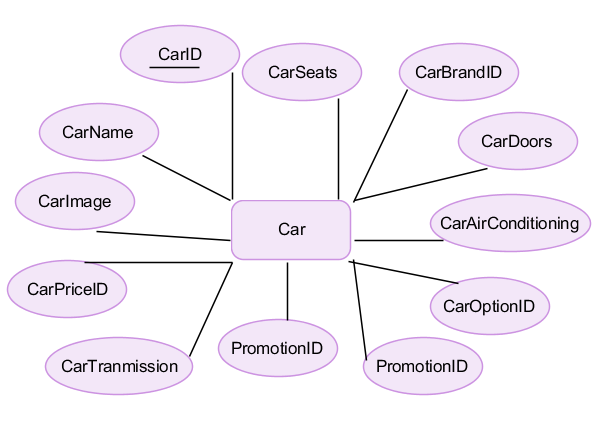
\*Search Tour

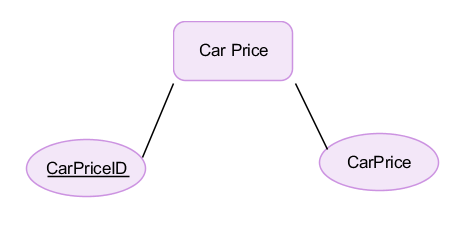
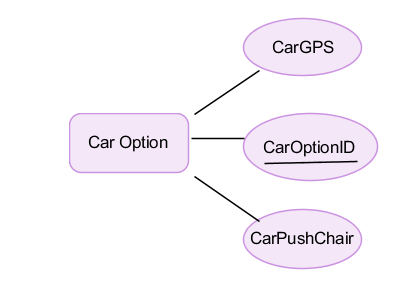
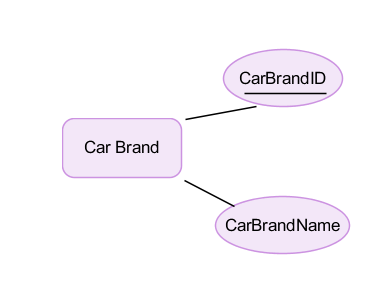


# Entities Relationship Diagrams



## Entities





# SQL Tables



## Relationship

## Tables

## 5.2.1 Car

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CarID** | int |  | No |  |  | Car ID |
| FK | CarBrandID | int |  | No |  | CarBrand.  CarBrandID | Car Car Brand ID  FK of Car Brand table |
| FK | CarPriceID | Int |  | No |  | CarPrice.  CarPriceID | Car Car Price ID  FK of Car Price table |
| FK | CarOptionID | int |  |  |  | CarOption.  CarOptionID | Car Car Option ID  FK of Car Option table |
| FK | PromotionID | Int |  | Yes |  | Promotion  PromotionID | Promotion ID  FK of Promotion table |
|  | CarName | varchar | 50 | No |  |  | Car Name |
|  | CarImage | varchar | 100 | No |  |  | Car Images |
|  | CarTranmission | Varchar | 100 | No |  |  | Car Transmission |
|  | CarAirConditioning | varchar | 20 | No |  |  | Car Air Conditioning |
|  | CarDoors | tinyint | 20 | No |  |  | Numbers of car doors |
|  | CarSeats | tinyint |  | No |  |  | Numbers of car seats |
|  | CarStatus | bit | 1 | No | 0 |  | Status of Car  0: Deactivate  1: Available |

## CarPrice

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CarPriceID** | int |  | No |  |  | Car Price ID |
|  | CarPrice | float |  | No |  |  | Car Price |

## CarBrand

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CarBrandID** | int |  | No |  |  | Car Brand ID |
|  | CarBrandName | varchar | 50 | No |  |  | Car Brand Name |

## 5.2.4 CarOption

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CarOptionID** | int |  | No |  |  | Car Option ID |
|  | CarGPS | bit | 1 | No | 0 |  | Car Add-on  0: None  1: Have |
|  | CarPushChair | Bit | 1 | No | 0 |  | Car Add-on  0: None  1: Have |

## Tours

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **TourID** | varchar | 20 | No |  |  | Tour ID |
|  | TourTitle | Nvarchar | 50 | No |  |  | Title |
|  | TourCategoryID | Varchar | 20 | No |  | TourCategory  TourCGID | Tour Category ID  FK of Tour Category table |

## TourDetail

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **TourDTID** | varchar | 20 | No |  |  | Tour Details ID |
| FK | TourID | varchar | 20 | No |  | Tours.  TourID | Tour ID  FK of Tours table |
| FK | PromotionID | Int |  | Yes |  | Promotion  PromotionID | Promotion ID  FK of Promotion table |
|  |  |  |  |  |  |  |  |
|  | EventTourPrice | float |  | No |  |  | Car Name |
|  | OddTourPrice | float |  | No |  |  | Unfilled tours |
|  | DepartureDate | Datetime |  | No |  |  | Departure Time |
|  | HotelRank | Tinyint |  | No |  |  | Rank of hotels |
|  | DeparturePoint | Nvarchar | 100 | No |  |  | Departure Point |
|  | Transportation | Tinyint |  | No |  |  | Ways of transportation |
|  | Duration | Tinyint |  | No |  |  | Duration |
|  | MaximumTicket | Tinyint |  | No |  |  | Maximum number of tickets |
|  | Status | bit |  | No |  |  | Tour Details Status |

## Schedule

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **ScheduleID** | int |  | No |  |  | Schedule ID |
| FK | **TourDetailID** | varchar |  |  |  |  | TourDetailID FK of TourDTID |
|  | Summary | Nvarchar | 300 | No |  |  | Title |
|  | Content | Nvarchar | Max | No |  |  | Maximum number of tickets |
|  | Image | Varchar | 200 | No |  |  | Images |

## TourCategory

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **TourCategoryID** | varchar | 20 | No |  |  | Tour Category ID |
|  | TourCategoryName | Nvarchar | 50 | No |  |  | Title |
|  | Destination | nvarchar | 50 | No |  |  | Destination |
|  | DurationFrom | tinyint |  | No |  |  | Beginning of the tour |
|  | DurationTo | tinyint |  | No |  |  | Ending of the tour |
|  | PriceFrom | Float |  | No |  |  | Price Min |
|  | PriceTo | Float |  | No |  |  | Price Max |
|  | Status | bit |  | No |  |  | Status |

## Booked

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **BookedID** | varchar | 20 | No |  |  | Booked ID |
| FK | CustomerID | int |  | No |  | Customer.  CustomerID | Customer ID  FK of Customer table |
|  | CreatedDate | Datetime |  | No |  |  | The date which customer begin to book tour |

## TourBookedDetail

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **TourBookedDetailID** | int |  | No |  |  | Tour Booking Details ID |
| FK | TourID | varchar | 20 | No |  | Tours.  TourID | Tour ID  FK of Tours table |
| FK | BookedID | Varchar | 20 | No |  | Booked.  BookedID | Book ID  FK of Booked table |
|  | NumberOfKid | Tinyint |  | No |  |  | Numbers of childrend between 3 and 12 years old |
|  | NumberOfBaby | Tinyint |  | No |  |  | Numbers of childrend under 3 years old |
|  | NumberOfPeople | Tinyint |  | No |  |  | Numbers of people in tours. |

## CarBookedDetails

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CarBKDTID** | varchar | 20 | No |  |  | Car Booking Details ID |
| FK | CarID | int |  | No |  | Car.  CarID | Car ID  FK of Car table |
| FK | BookedID | Varchar | 20 | No |  | Booked.  BookedID | Book ID  FK of Booked table |
|  | CarQuantity | tinyInt |  | No |  |  | Numbers of booked cars per user. |

## CustomerUser

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **CustomerUserID** | Int |  | No |  |  | Customer ID |
| FK | RepresentativeID | Int |  | No |  | Customer.  CustomerID | Representative ID  FK of Customer table |
| FK | RoleID | Int |  | No |  | Role.  RoleID | Role ID  FK of Role table |
|  | CustomerUsername | Varchar | 20 | Yes |  |  | User’s username |
|  | Password | Varchar | 20 | Yes |  |  | Users password |
|  | Fullname | Nvarchar | 50 | No |  |  | Fullname |
|  | Phone | Varchar | 20 | No |  |  | Phone number |
|  | Email | Varchar | 50 | Yes |  |  | User Email |

## Role

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **RoleID** | Int |  | No |  |  | Role ID |
|  | RoleName | nVarchar | 20 | No |  |  | Role Names |

## Promotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **PromotionID** | Int |  | No |  |  | Promotion ID |
|  | PromotionCode | Varchar | 20 | No |  |  | Promotion Codes |
|  | CreatedDate | Datetime |  | No |  |  | Day Create Promotion |
|  | StartDate | Datetine |  | No |  |  | Start of Promotion |
|  | EndDate | Datetime |  | No |  |  | End of Promotion |

## Review

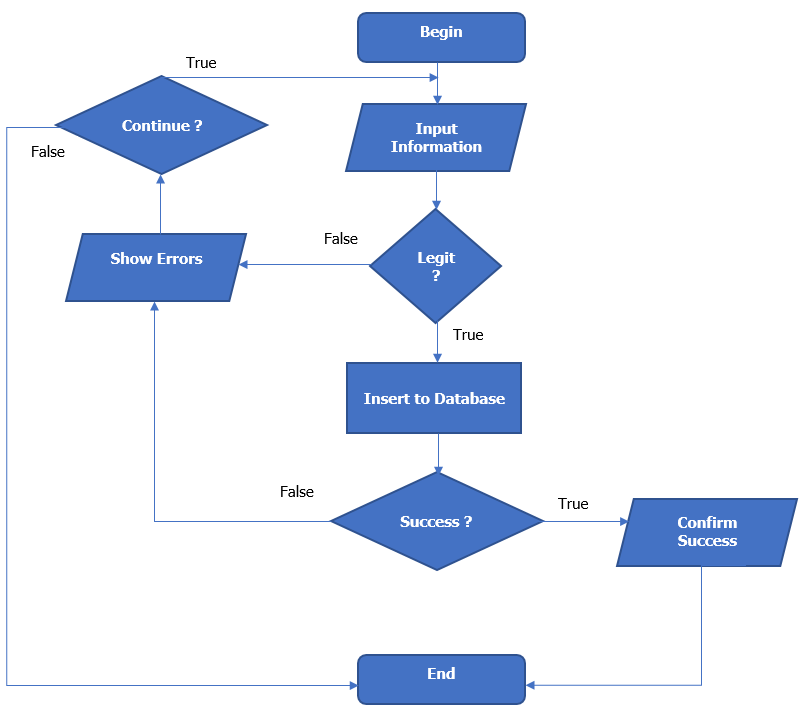
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **ReviewID** | int |  | No |  |  | Review ID |
| FK | CustomerID | int |  | No |  | Customer.  CustomerID | Customer ID  FK of Customer table |
|  | CreatedDate | Datetime |  | No |  |  | The date which customer leave a review |

## ReviewDetails

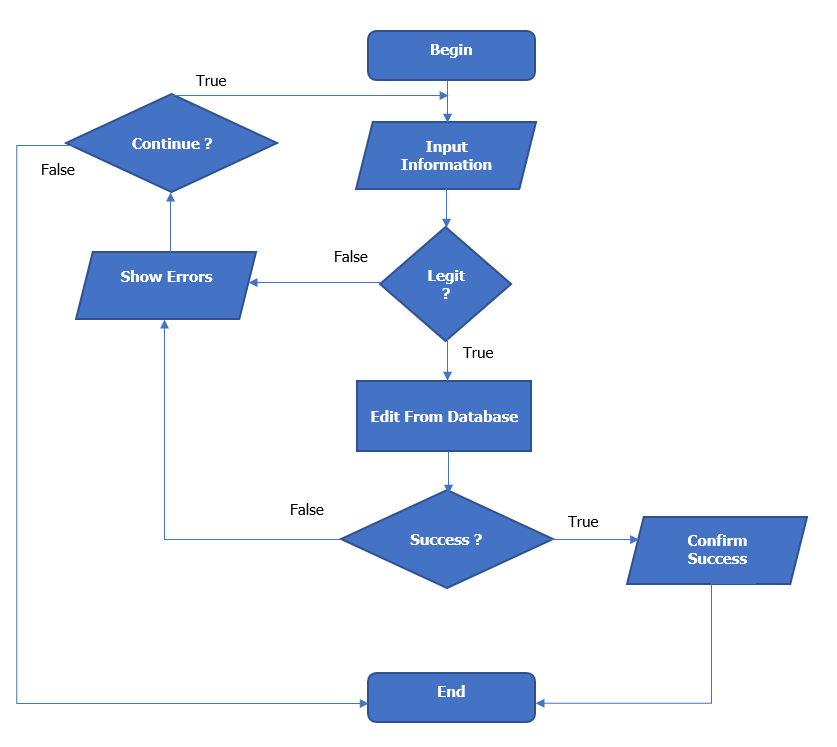
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Data Type** | **Length** | **Allow Null** | **Default value** | **Table-Field-Ref** | **Description** |
| PK | **ReviewDTID** | int |  | No |  |  | Review Details ID |
| FK | ReviewID | int |  | No |  | Review.  ReviewID | Review ID  FK of Review table |
| FK | CarID | Varchar | 20 | No |  | Car.  CarID | Car ID  FK of Car table |
| FK | TourID | Varchar | 20 | No |  | Tour.  TourID | Tour ID  FK of Tours table |
|  | Content | Nvarchar | 300 | No |  |  | Content of review |
|  | Rating | tinyint |  | No |  |  | Rating |

# Flow Chart

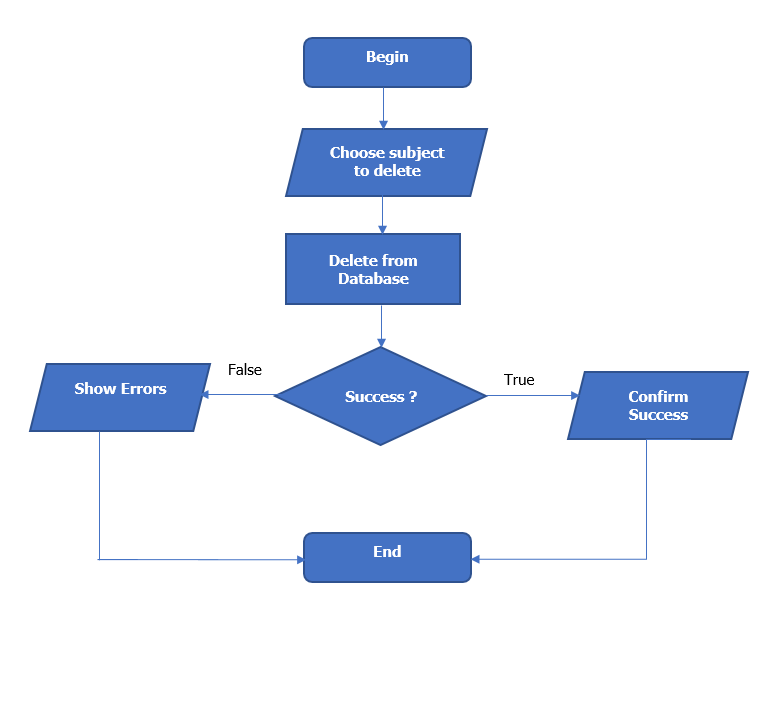
\*Add Car



\*Edit Car



\*Delete Car



|  |  |  |
| --- | --- | --- |
|  | **Prepared by (Student)** | **Approved by (Faculty)** |
| **Signature** | Team leader  **Duong Dinh Vu** | **Phan Minh Tam** |
| **Date** |  |  |