|  |  |  |
| --- | --- | --- |
| Class dictionary | | |
| Class Name | **Mapping column with Conceptual diagram** | **記述** |
| AspNetUser | User | Generated by ASP.NET MVC5. Describe all user in system |
| AspNetRole | N/A | Generated by ASP.NET MVC5. Describe existing user’s roles in system. |
| AspNetUserClaim | N/A | Generated by ASP.NET MVC5. Describe all stored claims (Special 属性s) of AspNetUsers. |
| AspNetUserLogin | N/A | Generated by ASP.NET MVC5. Describe information about 3rd party/external logins allowed for each AspNetUsers. |
| Vehicle | Vehicle | Describe all vehicles in system. |
| VehicleImage | VehicleImage | Describe all images of each vehicle. |
| VehicleModel | VehicleModel | Describe all vehicle models in system. |
| VehicleBrand | VehicleBrand | Describe all vehicle brands in system. |
| Category | Category | Describe all vehicle categories in system. |
| VehicleGroup | VehicleGroup | Describe all vehicle groups in system |
| PriceGroup | PriceGroup | Describe rental constraints (Pricing, travel distance…) of each VehicleGroup. |
| PriceGroupItem | PriceGroupItem | Describe detailedconstraints for hourly rental options ofeach PriceGroup in system. |
| Garage | Garage | Describe all garages in system |
| GarageWorkingTime | GarageWorkingTime | Describe working time constraints of each Garagein system. |
| Location | Location | Describe all locations in system. |
| Nation | Nation | Describe all nations in system. |
| BookingReceipt | BookingReceipt | Describe all booking receipts in system. |

Table 9:Class dictionary

### Class Diagram Explanation

#### AspNetUsers

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| Id | String | AspNetUserのユニークな識別子 |
| Email | String | ウーサのメール |
| EmailConfirmed | Bit | 電子メールが確認されたかどうかを示すステータス。 |
| PasswordHash | String | ユーザーの暗号化されたパスワード。 |
| SecurityStamp | String | ユーザーのクッキーとセッションを認証するために使用されるスタンプ。 |
| PhoneNumber | String | ウーサの電話番号 |
| PhoneNumberConfirmed | Bit | 電話番号が確認されたかどうかを示すステータス。 |
| TwoFactorEnabled | Bit | 二因子ログインが使用可能かどうかを示すステータス。 |
| LockoutEndDateUtc | Nullable<DateTime> | lockoutEnableがtrueの場合、このユーザーがロックアウトされるまでの日。 |
| LockoutEnable | Bit | ロックアウトが使用可能かどうかを示すステータス。 |
| AccessFailedCount | Int | このアカウントのアクセスに失敗した回数。 |
| UserName | String | ウーサの名 |
| FullName | String | ウーサのフルネーム |
| IsProviderUntil | Nullable<DateTime> | このユーザーがプロバイダロールを持つまでの日付。 |
| AvatarURL | String | ウーサのアバターのURL |

Table 10: AspNetUser class - 属性s

#### AspNetRoles

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| Id | String | AspNetRoleのユニークな識別子 |
| Name | String | ロールの名 |

Table 12: AspNetRole class - 属性s

#### AspNetUserClaims

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| Id | Int | ユニークな識別子のクレーム |
| UserId | String | クレームが属するAspNetUserのID |
| Claimドメイン | Stirng | クレームのドメイン |
| ClaimValue | String | クレームのバリュー |

Table 16: AspNetUserClaim class - 属性s

#### AspNetUserLogins

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| LoginProvider | String | 第三者ログインプロバイダの名 |
| ProviderKey | String | 第三者のサービスが提供するユーザのログインキー |
| UserId | String | このログインを使用してログインできるAspNetUserのID |

Table 18: AspNetUserLogin class - 属性s

#### Vehicles

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | String | 車両のユニークな識別子 |
| LicenseNumber | String | 車両のライセンス番号 |
| Name | String | 車両の名 |
| ModelID | Int | 車両のモデル |
| Year | Int | この車両が生産されたの年 |
| GarageID | Int | この車両を含むガレージのID |
| VehicleGroupID | Nullable<Int> | この車両を含む車両のグルプのID |
| Transmissionドメイン | Int | 車両のギアドメイン |
| TransmissionDetail | String | 車両のギアに関する詳細記述 |
| Fuelドメイン | Nullable<Int> | 車両の燃料ドメイン |
| Engine | String | 車両のエンジンに関する詳細記述 |
| Color | Int | 車両の色 |
| 記述 | String | 車両の記述 |
| NumOfComment | Int | この車両が受け取った顧客の数 |
| Star | Decimal | 車両の評価 |
| IsDeleted | Bit | この車両が削除されたかどうかを示すステータス |

Table 20: Vehicle class - 属性s

#### VehicleImages

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | String | イメージのユニークな識別子 |
| VehicleID | Int | このイメージが属する車両のID |
| URL | String | イメージのURL |

Table 22: VehicleImage class - 属性s

#### VehicleModels

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | 車両モデルのユニークな識別子 |
| Name | String | ロールの名 |
| BrandID | Int | このモデルのブランドのID |
| NumOfDoor | Int | この車両のドア |
| NumOfSeat | Int | この車両のシート |

Table 24: VehicleModel class - 属性

#### VehicleBrands

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | 車両ブランドのユニークな識別子 |
| Name | String | ブランドの名 |

Table 26: VehicleBrand class - 属性s

#### Categories

|  |  |  |
| --- | --- | --- |
| 属性 | ドメイン | 記述 |
| ID | Int | カテゴリの唯一の識別子 |
| Name | nvarchar(50) | カテゴリの名前 |

#### Garages

|  |  |  |
| --- | --- | --- |
| 属性 | ドメイン | 記述 |
| ID | int | ガレージの唯一の識別子 |
| OwnerID | nvarchar(128) | ガレージのユーザーの唯一の識別子 |
| Name | nvarchar(100) | ガレージの名前 |
| LocationID | int | ガレージの場所の唯一の識別子 |
| Address | nvarchar(200) | ガレージの住所 |
| Email | varchar(256) | ガレージのメール |
| Phone1 | varchar(50) | ガレージの電話番号１ |
| Phone2 | varchar(50) | ガレージの電話番号２ |
| NumOfComment | int | 顧客からコメントの量 |
| Star | decimal(2, 1) | ガレージの評価 |
| Description | nvarchar(1000) | ガレージの説明 |
| Policy | nvarchar(1000) | Policy of garage |
| IsActive | bit | Status indicating whether this garage is active. |
| IsDeleted | bit | Status indicating whether this garage was deleted. |

Table 26: Garage class - 属性s

#### GarageWorkingTimes

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| GarageID | int | ID of Garage which this working time constraint is applied to. |
| DayOfWeek | int | Day of weekwhich this working time constraint represents. |
| OpenTimeInMinute | Int | Opening time of this garare in this day of week. |
| CloseTimeInMinute | Int | Closing time of this garage in this day of week. |

#### Locations

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | Unique identifier of location. |
| Name | nvarchar(50) | Name of location. |
| NationID | Int | ID of Nation to which this location belongs. |

Table 26: Location class - 属性s

#### Nation

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | Unique identifier of nation |
| Name | nvarchar(50) | Name of nation |

#### VehicleGroups

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | Unique identifier of vehicle group |
| OwnerID | nvarchar(128) | ID of AspNetUser whom this group belongs to |
| Name | nvarchar(50) | Name of group |
| IsActive | Bit | Status indicating whether this group is active |
| WithDriverPriceGroupID | Int | ID of default PriceGroup which is applied for driver-included rent. |

#### PriceGroups

|  |  |  |
| --- | --- | --- |
| **属性** | **ドメイン** | **記述** |
| ID | Int | Unique identifier of price group. |
| DepositPercentage | decimal(3, 2) | Percentage of total rental price which customer has to pay to provider when booking. |
| PerDayPrice | float | Pricing of daily rental. |
| MaxRentalPeriod | int | Maximum days a rental can last. |
| MaxDistancePerDay | int | Maximum km that customer can travel in 1 days without being charged extra fee with the rented vehicle. |
| ExtraChargePerKm | float | Extra feefor every 1 km outside allowed travel distance. |

#### PriceGroupItems

|  |  |  |  |
| --- | --- | --- | --- |
| **属性** | **ドメイン** | **Visibility** | **記述** |
| PriceGroupID | Int | Private | ID of PriceGroup to which this hourly rental option belongs. |
| MaxTime | Int | Private | Rental duration of this rental option. |
| Price | float | Private | Rental price of this rental option. |
| MaxDistance | Int | Private | Maximum km that customer can travel without being charged extra fee with the rented vehicle using this rental option. |

#### BookingReceipt

|  |  |  |  |
| --- | --- | --- | --- |
| **属性** | **ドメイン** | **Visibility** | **記述** |
| ID | Int | Private | Unique identifier of receipt. |
| CustomerID | nvarchar(128) | Private | ID of AspNetUser who is the customer of this receipt. |
| RentalPrice | float | Private | Total rental price. |
| Deposit | float | Private | Deposit paid by customer to provider when booking. |
| BookingFee | float | Private | Fee paid by customer to system when booking. |
| Distance | int | Private | Maximum distance customer can travel without being charged extra fee with the rented vehicle. |
| Star | int | Private | Rating from customer for this rental period. |
| Comment | nvarchar(200) | Private | Feedback from customer about this rental reriod. |
| BookingTime | DateTime | Private | Time when this booking is made. |
| StartTime | DateTime | Private | Time when rental period starts. |
| EndTime | DateTime | Private | Time when rental period ends. |
| GarageID | Int | Private | ID of Garage to which this booking belongs. |
| GarageName | nvarchar(100) | Private | Name of Garage at booking moment. |
| GarageAddress | nvarchar(200) | Private | Address of Garage at booking moment. |
| GaragePhone | varchar(50) | Private | Phone1 of Garage at booking moment. |
| GarageEmail | varchar(50) | Private | Email of Garage at booking moment. |
| VehicleID | Int | Private | ID of booked Vehicle. |
| LicenseNumber | varchar(50) | Private | License number of Vehicle at booking moment. |
| VehicleName | nvarchar(100) | Private | Name of Vehicle at booking moment. |
| TransmissionDetail | nvarchar(200) | Private | TransmissionDetail of Vehicle at booking moment. |
| Engine | nvarchar(200) | Private | Engine of Vehicle at booking moment. |
| Color | Int | Private | Color of Vehicle at booking moment. |
| IsCanceled | Bit | Private | Status indicating whether this booking has been canceled. |
| IsPending | Bit | Private | Status indicating whether this booking has not been paid. |

Table 26: BookingReceipt class - 属性s