

Requirement & Design Specification

**Global Access Management System (GAMS)**

**Version: 1.0**

– Hanoi, July 2024 –

# Record of Changes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **A\* M, D**  **(Add,Modify,Delete)** | **In charge** | **Change Description** |
| V1.0 | 7/5 | A | TuanND | Project initial |
| V1.0 | 9/5 | A | TuanND | Add project actors |
| V1.0 | 12/5 | M | TuanND | Modify project actors |
| V1.0 | 12/5 | A | TuanND | Add screen authorization |
| V1.0 | 14/5 | M | TuanND | Modify project actors |
| V1.0 | 15/5 | M | TuanND | Modify project actors |
| V1.0 | 15/5 | M | TuanND | Modified UC details(Login system) |
| V1.0 | 18/5 | A | TuanND | Add database diagram |
| V1.0 | 20/5 | A | TuanND | Add database description |
| V1.0 | 20/5 | M | TuanND | Modify database description |
| V1.0 | 20/5 | A | TuanND | Add register sceen |
| V1.0 | 20/5 | A | TuanND | Add register fuction |
| V1.0 | 20/5 | A | TuanND | Add manage product |
| V1.0 | 23/5 | A | TuanND | Create Update Delete Product |
| V1.0 | 27/5 | A | TuanND | Add forget password function |
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\*A - Added M - Modified D - Deleted

Contents

[Record of Changes 2](#_gjdgxs)

[I. Overview 4](#_30j0zll)

[1. User Requirements 4](#_1fob9te)

[1.1 Actors 4](#_3znysh7)

[1.2 Use Cases 4](#_2et92p0)

[2. Overall Functionalities 5](#_tyjcwt)

[2.1 Screens Flow 5](#_3dy6vkm)

[2.2 Screen Descriptions 5](#_1t3h5sf)

[2.3 Screen Authorization 5](#_4d34og8)

[2.4 Non-UI Functions 6](#_2s8eyo1)

[3. System High Level Design 6](#_17dp8vu)

[3.1 Database Design 6](#_3rdcrjn)

[3.2 Code Packages 7](#_35nkun2)

[II. Requirement Specifications 8](#_1ksv4uv)

[1. <<Feature Name>> 8](#_44sinio)

[1.1 <<UseCaseCode\_UC Name>> 8](#_2jxsxqh)

[2. Common Functions 11](#_z337ya)

[2.1 UC-2\_Login System 11](#_3j2qqm3)

[3. Patron Feature 12](#_1y810tw)

[3.1 UC-5\_Order a Meal 12](#_4i7ojhp)

[3.2 UC-6\_Register for Payroll Deduction 13](#_2xcytpi)

[III. Design Specifications 14](#_1ci93xb)

[1. <<Feature Name>> 14](#_3whwml4)

[1.1 <<SubFeature Name>> 14](#_2bn6wsx)

[1.2 System Access 15](#_qsh70q)

[IV. Appendix 19](#_3as4poj)

[1. Assumptions & Dependencies 19](#_1pxezwc)

[2. Limitations & Exclusions 19](#_49x2ik5)

[3. Business Rules 19](#_2p2csry)

[4. .. 19](#_147n2zr)

# I. Overview

## 1. User Requirements

### 1.1 Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Manager | Manager control all users, have the right to forbid user who violate the website rule, control user posts, manage car on the list, create notification on home page |
| 2 | Admin | Admin control all users, have the right to forbid user who violate the website rule, control user posts, manage car on the list |
| 3 | Client | User are people who has an account can access the website, view information about car sales service packages, search for cars, and view details about each car, can paid for each post news to sell cars or paid monthly to become membership |
| 4 | Staff | Guest are people who do not have an account can access the website, can view information about car sales service packages, search for cars, and view details about each car but unable to post anything |

### 1.2 Use Cases

#### a. Diagram(s)

A diagram of a network

Description automatically generated

A diagram of a company

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A diagram of a network

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A diagram of a company

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#### b. Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Feature** | **Use Case** | **Use Case Description** |
| 01 | Login | Login |  |
| 02 | Register | Register |  |
| 03 | Home page | View Customer Feedback |  |
| 04 | Home page | Manage Post |  |
| 05 | Home page | Manage Account |  |
| 06 | Home Page | Search |  |
| 07 | Home page | Create Post |  |
| 08 | Home page | View Model |  |
| 09 | Home page | View Brand |  |
| 10 | Update | Update Car |  |
| 11 | Update | Update Post |  |
| 12 | Update | Update Image |  |
| 13 | Update | Update profile |  |
| 14 | Update | Change password |  |
| 15 | Create | Create Post |  |
| 16 | Create | Insert car |  |
| 17 | Create | Insert Post |  |
| 18 | Create | Insert Image |  |
| 19 | Create | Feedback |  |
| 20 | View Product | View Brand |  |
| 21 | View Product | View Model |  |
| 22 | List Post | View Post By Brand |  |
| 23 | List Post | View Post By Model |  |
| 24 | View Product | View car detail |  |
| 25 | View Product | View Post Owner |  |
| 26 | View Product | View All Post |  |
| 27 | View Product | View Post By Provider |  |
| 28 | Update | Approval Post |  |
| 29 | Update | Insert brand |  |
| 30 | Update | Insert model |  |
|  |  |  |  |

## 2. Overall Functionalities

### 2.1 Screens Flow

### 2.2 Screen Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **Screen** | **Description** |
| 1 | Home | Home page | Introduce the website and highlight its features, display featured cars and special offers |
| 2 | Home | Provider home | Home page for admin. Can filtered cars by certain categories, manage user accounts |
| 3 | Login | Login | Have 2 fields of username and password. Have link to register a new user, forgot password |
| 4 | Login | Login for provider | When user enter provider account the some service only can be use by provider |
| 4 | Login | User register | Register screen to register new user account. Have the following fields: Username, Password, Confirm password, Full name, Mobile, Email, City, Address. |
| 5 | Login | Forgot password | Forgot password for user who forgot their password. Have a field to input email. After email inputted and validated, A code will be sent to user email and after entering the code, User can enter new password and confirm password |
| 6 | Profile | View Profile | User can see all their profile |
|  | Profile | Update User Profile | Update user profile. The updating field will be Full name, Mobile, City, Address |
| 7 | List Post | List Post By Brand | Show post about car list for users. List all post and can filter by brand |
| 8 | Manage Account | Create other account | Only admin allow to create another account with different role |
| 9 | Manage Account | List account | Show all account with all role for admin so that can be manage |
|  | Manage Account | Delete Other Account | This only admin can use this function |
| 10 | Manage Account | Update Active Account | Admin can ban or unban any kind of account |
| 10 | List Post | List post By Model | Show post about car list for users. List all post and can filter by model |
| 11 | List Post | Search | Show post about car list for users. List all post and can filter by origin, gearbox, engine, price… |
| 12 | List Post | List newest post | Show post about car list for users. List all post and can filter by the nearest time |
| 13 | List Post | List All Post | Show post about car list for users. List all post |
| 14 | Manage Product | Insert Model | Admin have right to insert new model to update system |
| 15 | Manage Product | Insert Brand | Admin have right to insert new model to update system |
| 16 | Manage Product | List All Post For Provider | This function allow staff or manager to see all post information and so that they can approve post or not |
|  | Manage Product | Update Car Information | This only use by client who already have posting some news they can update car information |
| 17 | Manage Product | Update post | This only use by client who already have posting some news they can update post information |
|  | Manage Product | Update Image | This only use by client who already have posting some news they can update image… |
|  | Manage Product | Post Approval | Only provider can approve client’s post to posting to home page |
|  | Manage Product | View Detail Post For Provider | Provider need to see detail post and approve it or unapproved |
| 18 | View Product | View Detail Post | This function help all role can see clearly all information post when user choose one of the product |
|  | View Product | View post owner information | when user view detail post they can search owner who post this product |
|  | View Product | View Model | This function help user can see all model the market have |
|  | View Product | View Brand | This function help user can see all brand the market have |
|  | View | Give Feedback | Only client can give some feedback and comment to page |
|  |  | View Feedback | All role can be view all feedback and commnet |

### 2.3 Screen Authorization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen** | **Manager** | **Client** | **Admin** | **Staff** |
| Home page | x | x | x | x |
| Provider home | x |  | x | x |
| login | x | x | x | x |
| User register |  | x |  |  |
| Forgot password |  | x |  |  |
| View Profile |  | x |  |  |
| Update User Profile |  | x |  |  |
| List Post By Brand | x | x | x | x |
| List post By Model | x | x | x | x |
| List Account | x |  | x | x |
| Create other account |  |  | x |  |
| Delete other account |  |  | x |  |
| Update active account |  |  | x |  |
| Search | x | x | x | x |
| List newest post | x | x | x | x |
| List All Post | x | x | x | x |
| Insert Model | x |  |  |  |
| Insert Brand | x |  |  |  |
| List All Post for Provider |  |  |  | x |
| Update post |  | x |  |  |
| Post Approval |  |  |  | x |
| View Detail Post For Provider |  |  |  | x |
| View Detail Post | x | x | x | x |
| View Post Owner Information | x | x | x | x |
| View Model | x | x | x | x |
| View Brand | x | x | x | x |
| Give Feedback |  | x |  |  |
| View Feedback | x | x | x | x |
|  |  |  |  |  |

### 2.4 Non-UI Functions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **System Function** | **Description** |
| 1 | <<Feature Name>> | <<Function Name1>> | <<Function Name1 Description>> |
| 2 | … |  |  |

## 3. System High Level Design

### 3.1 Database Design

#### a. Database Schema

A computer screen shot of a computer

Description automatically generated

#### b. Table Descriptions

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| 1 | Client | Store information for user who buy or sale product on profile |
| 2 | Provider | Store user information of admin, manager and staff |
| 3 | Role | Store id and name of the role |
| 4 | Feedback | Store user feedback about the website |
| 5 | Membership | Store information about user who become membership and earn special offer |
| 6 | Orders | Store orders from user who paid to post single news or paid monthly to become memberships, orders of the person who buy cars |
| 7 | Car | Store informations about cars that show on the car list |
| 8 | Model | Store car model to show on car list |
| 9 | Brand | Store car model to show car list |
| 10 | Post | Store information about post from user |
| 11 | carImage | Store image of client car |
| 12 | Gearbox | Store Car’s gearbox |
| 13 | numberOfDoor | Store number of car’s door |
| 14 | exteriorColor | Store car’s exterior color |
| 15 | origin | Store Car’s origin |
| 16 | interiorColor | Store car’s interior color |
| 17 | engine | Store Car’s engine |
| 18 | NumberOfSeats | Store number of car’s seat |
| 19 | SupportRequest | Store information about support that user wrote down for manager or admin |
|  |  |  |

### 3.2 Code Packages

A diagram of a diagram

Description automatically generated

***Package descriptions***

|  |  |  |
| --- | --- | --- |
| **No** | **Package** | **Description** |
| 01 | JSP | This package is use to store JSP page where user sontact in this |
| 02 | Common | This package store java file use to send OTP password to email |
| 03 | Controller | This package store servlet file to do the duction that user contact in JSP package |
| 04 | model | This store java file and algorithm of this function |
| 05 | Entity | Store entity from database |

### 3.3 Context Diagram

A diagram of a car market

Description automatically generated

# II. Requirement Specifications

## 1. Register

### 1.1 UC-1\_Register

#### a. Functionalities

Provide the functional description for the use cases using the template/guides below

**Functional Description Template**

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | UC1\_Register | | |
| Created By: | TuanND | Date Created: | 20/5/2024 |
| Primary Actor: | Client | Secondary Actors: | None |
| Trigger: | When user want to have a account to login website | | |
| Description: | As user, I want create an account to login website so that i can use some service in website | | |
| Preconditions: | Just click into register page | | |
| Postconditions: | * Success: return to LoginPage * Failure: The system reports an error corresponding to the error | | |
| Normal Flow: | **1.0 Register**  1. User accesses the User Login screen  2. User switch to Register or click don't have account  3.User enters some basic information  4. User clicks the Register button  5. System validates check the email and send a link to your email  6. Go email message and click the link to active account  7. System transfer to login page with note “Your account has been verified. You can log in now!” | | |
| Alternative Flows: |  | | |
| Exceptions: | ***1.0.E1 System not accept user information***  1. The Error Message screen is shown to the user | | |
| Priority: | High , Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | BR1, BR2 | | |
| Other Information: |  | | |
| Assumptions: |  | | |

#### b. Business Rules

Provide the business rules those are applied only to the use case

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| BR1 | Password Encoding | User’s password must be encoded with MD5 hashing |
| BR2 | Email unique | Email must not exist in database |

## 2. Common Functions

### 2.1 UC-2\_Login System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-2\_Login System** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: |  |
| Trigger: | The user wants to log in to the Car website | | |
| Description: | As a user, I want to be able to log into the system so that I can use the system’s authenticated features and access my personalized account. | | |
| Preconditions: | The user account has been previously registered. | | |
| Postconditions: | * Success: return to the home page * Failure: The system reports an error corresponding to the error | | |
| Normal Flow | **2.0 Login System**  1. User accesses the User Login screen  2. User types in the login details or choo other login options  3.User enters email and password  4. User clicks the Login button  5. System validates the login details  6. System allows user to access  7. System accesses the Home Page (or the previous calling page if any) | | |
| Alternative Flows: |  | | |
| Exceptions: | ***2.0.E1 System can’t authenticate the user***  1. The Error Message screen is shown to the user  2. User cancels the logging in *=> UC stops, change to UC-1\_View Home Page*  3. User clicks “Forgot Password?” link *=> change to UC-3\_Reset Password*  4. User clicks “Register” link *=> change to UC-4\_Register User Account* | | |
| Priority: | Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | None | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

None

### 2.2 UC-3\_Manage Profile

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-3\_Manage Profile** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Staff |
| Trigger: | Client can view and update their profile | | |
| Description: | As a client I want to update my profile for some situation | | |
| Preconditions: | The user account has been previously registered and not be ban. | | |
| Postconditions: | * Success: Return to view profile * Failure: The system will return view profile and warning “you need input .png folder” | | |
| Normal Flow | **3.0 Manage Profile**  1. Client login with their account  2. After login success, system will go to homepage  3.Enter mange Profile in service function  4. User can see their information profile | | |
|  |  | | |
| Exceptions: | ***System 3.0.E1 cannot authenticate users***  1. The Error Message screen is displayed to the user | | |
| Priority: | Must Have | | |
| Frequency of Use: | Sometime | | |
| Business Rules: | FR3, FR4 | | |
| Assumptions: |  | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR3 | Upload Image | Client must upload .png folder |
| FR4 | Invalid Blank | Client cannot leave blank any profile information |

### 2.3 UC-4\_Search System

*a. Functional Description*

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-4\_Search System** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user want search for some post or product | | |
| Description: | As a user, I want to search the product(post) by gearbox, origin, brand model … | | |
| Preconditions: | The user has go to homepage | | |
| Postconditions: | * Success: go to search result * Failure: can not find result | | |
| Normal Flow | **4.0 Search System**  1. User accesses the User Login screen  2. User types in the login details  3. After go into homepage user will see the condition car user want to see  4. chosing the condition car user want to see after that click search | | |
| Alternative Flows: |  | | |
| Exceptions: | ***4.0.E1 System can’t authenticate the user***  1. When user click search without choosing any condition | | |
| Priority: | Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | FR5,FR6 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR5 | Seach directly | The search system must have search correctly the post have same condition with user choosing |
| FR6 | Cant find post | If the system cant find post with user’s condition, the system need to announce “there is no result” |

### 2.4 UC-2\_Login System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-5\_List Post System** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user wants to log in to home page the post will appear in home page | | |
| Description: | As a user, I want to be see the post to find cheapest price | | |
| Preconditions: | The user login to account | | |
| Postconditions: | * Success: the list will appear from latest post in created day | | |
| Normal Flow | **5.0 List Newest Post System**  1. User accesses the User Login screen  2. User can click to see detail post | | |
| Alternative Flows: |  | | |
| Exceptions: | ***5.0.E1 System can’t authenticate the user***  1. User cant login in to home page  2. User cancels the logging in *=> UC stops, change to UC-2\_Login* | | |
| Priority: | Should Have | | |
| Frequency of Use: | Often | | |
| Business Rules: | FR7 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR7 | Latest Post | The function need to sow the latest post first but only apprve by provider |
|  |  |  |

### 2.5 UC-6\_Home page

#### a. Functionalities

**Functional Description Template**

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | UC-6\_Home page | | |
| Created By: | TuanND | Date Created: | 20/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | When user login into account | | |
| Description: | As user, I want to see a homepage to know what kind of this website | | |
| Preconditions: | Login or click to home page | | |
| Postconditions: | * Success: return to home page | | |
| Normal Flow: | 6.0 Home page  1. User accesses the Login screen  2. User login with account success and the system will switch to homepage  3.Also user can click to home page on the menu tab | | |
| Alternative Flows: |  | | |
| Exceptions: | ***6.0.E1 System not accept user information***  1. When user out time of session it will return to login page with announce | | |
| W | High , Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | FR8 | | |
| Other Information: |  | | |
| Assumptions: |  | | |

#### b. Business Rules

Provide the business rules those are applied only to the use case

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR8 | Home page must have login | User must login to account to go for homepage |

### 2.7 UC-7\_View Model System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-7\_View Model** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user wants to see model in this website | | |
| Description: | As a user, I want to be find a product in some model | | |
| Preconditions: | The user must click into model in homepage website to see more | | |
| Postconditions: | * Success: redirect to page list model * Failure: Time out session and return to login page | | |
| Normal Flow | **7.0 View Model System**  1. User accesses the User Login screen  2. User role down in to model or click model on menu tab  3.Click to see more | | |
| Alternative Flows: |  | | |
| Exceptions: | ***7.0.E1 System can’t authenticate the user***  1. Go back to login page and announce | | |
| Priority: | Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | FR9 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR9 | Provider have some specification action in page | Only admin, staff can have insert model button when have new model in this |

### 2.8 UC-8\_View Model System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-8\_View Brand** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user wants to see brand in this website | | |
| Description: | As a user, I want to be find a product in some brand | | |
| Preconditions: | The user must click into brand in homepage website to see more | | |
| Postconditions: | * Success: redirect to page list brand * Failure: Time out session and return to login page | | |
| Normal Flow | **7.0 View Brand System**  1. User accesses the User Login screen  2. User role down in to brand or click brand on menu tab  3.Click to see more | | |
| Alternative Flows: |  | | |
| Exceptions: | ***7.0.E1 System can’t authenticate the user***  1. Go back to login page and announce | | |
| Priority: | Must Have | | |
| Frequency of Use: | Sometime | | |
| Business Rules: | FR9 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR9 | Provider have some specification action in page | Only admin, staff can have insert model button when have new brand in this |

### 2.9 UC-9\_View Detail System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-9\_View Detail System** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | When user find the product they need to see detail information about the car | | |
| Description: | As a user, I want see detail information about the post to know about the car | | |
| Preconditions: | The user login or search the post | | |
| Postconditions: | * Success: go to detail post page * Failure: Time out session and return to login page | | |
| Normal Flow | **2.0 View Detail System**  1. User accesses the Login screen  2. User can view the list of post in search, latest post, All post, post by brand, post by model  3.Click into post name that they want to see | | |
| Alternative Flows: |  | | |
| Exceptions: | ***9.0.E1 System can’t authenticate the user***  1. Go back to login page and announce | | |
| Priority: | Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | FR10, FR11 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR10 | Image | The detail post when user go view must have at least 2 image |
| FR11 | Owner post | * The detail post must also have owner’s name to check the verification of owner |

### 2.10 UC-10\_View Post Owner Informationl System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-10\_View Post Owner Information** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user wants to know the owner is reputation or not | | |
| Description: | As a user, I want to view post owner is reputation or not | | |
| Preconditions: | The user must click into post detail then click to owner name to see owner profile | | |
| Postconditions: | * Success: send to detail profile page * Failure: Time out session and return to login page | | |
| Normal Flow | **10.0 View Model System**  1. User accesses the User Login screen  2. User click a post to see post detail  3.After go in post detail page click into owner name on the page in line “This post is created by …;.” | | |
| Alternative Flows: |  | | |
| Exceptions: | ***This page woulad don’t have image***  Some account haven’t update their profile so tat they wold not update image | | |
| Priority: | Must Have | | |
| Frequency of Use: | Always | | |
| Business Rules: | FR12 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR12 | This profile must not be ban | User have been ban can’t login or post anything so that if this account have been ban their post must be also unapproved |

### 2.11 UC-11\_View Feedback System

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-11\_View Feedback** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | Manager, Admin, Staff |
| Trigger: | The user wants to see other user feedback | | |
| Description: | As a user, I want to know other feedback to know quality of this website | | |
| Preconditions: | The user must click into model in homepage website to see more | | |
| Postconditions: | * Success: send to client’ feedback page * Failure: Time out session and return to login page | | |
| Normal Flow | **7.0 View Model System**  1. User accesses the User Login screen  2. User go to service on menu tab and click in View Feedback  3. The system will automatic send to All client’s feedback page | | |
| Alternative Flows: |  | | |
| Exceptions: |  | | |
| Priority: | Should Have | | |
| Frequency of Use: | Sometime | | |
| Business Rules: | FR13, FR14 | | |
| Assumptions: | The user's internet connection must be available. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR13 | Role feedback | No limit role to view the feedback and this feedback can’t be update |
|  |  |  |

## 3. Patron Feature

### 3.1 UC-12\_Provider menu tab

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-12 Provider menu tab** | | |
| Created By: | TuanND | Date Created: | 2/5/2024 |
| Primary Actor: | Manager | Secondary Actors: | Admin, Staff |
| Description: | As a provider, I want a menu tab for provider to do specification action | | |
| Trigger: | A provider must have a different menu tab with client for special action | | |
| Preconditions: | PRE-1. Your account must be provider’s account | | |
| Postconditions: | POST-1. Your account must not be ban. | | |
| Normal Flow: | **12.0 Provider menu tab**   1. Login with provider account that admin had gave | | |
| Alternative Flows: |  | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | Always | | |
| Business Rules: |  | | |
| Other Information: |  | | |
| Assumptions: | User must have provider account | | |

#### b. Business Rules

None

### 3.2 UC-13\_Forgot password

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-13 Forgot password** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Client | Secondary Actors: | none |
| Description: | As a client, I want to function that when I forget password, I still can login into this account | | |
| Trigger: | User request a function to take the password they forget | | |
| Preconditions: | PRE-1. User must have account | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | **13.0 Forgot password**   1. User click into Forgot password ? 2. Enter he email that user have register and click Next 3. Go to Gmail and check system have send a OTP message 4. Input the otp in to on the page and click Enter | | |
| Alternative Flows: | None | | |
| Exceptions: | 13.0.E1 User enter email haven’t exist in database | | |
| Priority: | High | | |
| Business Rules: | FR14 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR12 | OTP time out | The TOP must be limit on time if it end the otp is not valid |
|  |  |  |

### 3.3 UC-14\_List Account

#### a. Functional Description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID and Name: | | **UC-14 List Account** | | |
| Created By: | TuanND | Date Created: | 15/5/2024 |
| Primary Actor: | Admin | Secondary Actors: | Staff |
| Description: | As a provider, I want to the list of account to manage them | | |
| Trigger: | User request a function to list all the account from client and provider and show their role | | |
| Preconditions: | PRE-1. The account must be provider | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | **14.0 Forgot password**   1. The user login with provider account 2. Go to service and click to manage account | | |
| Alternative Flows: | None | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Business Rules: | FR15 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR15 | Role Account | All provider’s role can be list account but only few role have right to mange list account |
|  |  |  |

### 3.4 UC-15\_Create Other account

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-15 Create Other account** | | |
| Created By: | TuanND | Date Created: | 1/6/2024 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | As a admin, I want to create account so that I can set role for that account whatever I want | | |
| Trigger: | User want a fuction help them to create update or delete other account | | |
| Preconditions: | PRE-1. The account must be admin | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | 1. The user login with admin account   1. Go to service and click to manage account 2. Click to create account at the top that only exist if your account had admin role 3. Fill all the form that system request | | |
| Alternative Flows: | None | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Business Rules: | None | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

none

### 3.5 UC-16\_Delete Other account

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-16 Delete Other account** | | |
| Created By: | TuanND | Date Created: | 1/6/2024 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | As a admin, I want to delete other account so that I can release the memory system | | |
| Trigger: | User want a fuction help them to create update or delete other account | | |
| Preconditions: | PRE-1. The account must be admin | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | 1. The user login with admin account   1. Go to service and click to manage account 2. Click to delete account at action row that only exist if your account had admin role | | |
| Alternative Flows: | None | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Business Rules: | None | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

none

### 3.6 UC-17\_Upadte Active account

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-17 Update active account** | | |
| Created By: | TuanND | Date Created: | 1/6/2024 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | As a admin, I want to create account so that I can set role for that account whatever I want | | |
| Trigger: | User want a function help them to create update or delete other account | | |
| Preconditions: | PRE-1. The account must be admin | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | 1. The user login with admin account   1. Go to service and click to manage account 2. Click to account they want to update 3. Switch the status so that you want to update | | |
| Alternative Flows: | None | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Business Rules: | None | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

none

### 3.7 UC-18\_Insert Model

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-18 Insert Model** | | |
| Created By: | TuanND | Date Created: | 10/6/2024 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | As a admin, I want to insert model to update new model for their website | | |
| Trigger: | User want a function help them to create model | | |
| Preconditions: | PRE-1. The account must be admin | | |
| Postconditions: | POST-2. The account mustn’t be banned | | |
| Normal Flow: | 1. The user login with admin account  2. Scroll down to model on home page and click to see more  3. In this page click on insert model on the top  4. Enter name and image of form | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Business Rules: | FR16 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR16 | Insert Image | Admin must be insert image .png |
|  |  |  |

### 3.8 UC-19\_Insert Brand

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-19 Insert Brand** | | |
| Created By: | TuanND | Date Created: | 12/6/2024 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | As a admin, I want to insert brand to update new brand for their website | | |
| Trigger: | User want a function help them to create brand | | |
| Preconditions: | PRE-1. The account must be admin  PRE-2. The account mustn’t be banned | | |
| Postconditions: | None | | |
| Normal Flow: | 1. The user login with admin account  2. Scroll down to model on home page and click to see more  3. In this page click on insert brand on the top  4. Enter name and image of form | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Business Rules: | FR17 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR17 | Insert Image | Admin must be insert image .png |
|  |  |  |

### 3.9 UC-20\_Update Post

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-20 Update Post** | | |
| Created By: | TuanND | Date Created: | 13/6/2024 |
| Primary Actor: | Client | Secondary Actors: | None |
| Description: | As a client, I want to update my post when I posting some wrong information | | |
| Trigger: | User want a function update their post | | |
| Preconditions: | PRE-1. The account must be client  PRE-2. The account mustn’t be banned | | |
| Postconditions: | None | | |
| Normal Flow: | 1. User login with client account  2. Click in service in menu in homepage  3. Choose manage post  4. Click to the car that user want to update post  5. First, update your car after that update information car for the post  6. Enter Done to finish update | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Business Rules: | FR18 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR18 | Update | If any information you not update, client must also type this information again |
|  |  |  |

### 3.10 UC-21\_Post Approve

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-21 Post Approve** | | |
| Created By: | TuanND | Date Created: | 15/6/2024 |
| Primary Actor: | Manager | Secondary Actors: | Admin |
| Description: | As a manger, I want to approve the client’s post to accept client posting | | |
| Trigger: | User want a function update their posting table | | |
| Preconditions: | PRE-1. The account must be manager  PRE-2. The account mustn’t be banned | | |
| Postconditions: | None | | |
| Normal Flow: | 1. User login with manager account  2. Click in service in menu in homepage  3. Choose manage post  4. Click to the post that user want to approve  5. In this page have post information and client information  6. Switch this on status to approve | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Business Rules: | FR19 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR18 | Update | If any information you not update, client must also type this information again |
|  |  |  |

### 3.11 UC-22\_View Detail Post For Provider

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-22 View Detail Post for Provider** | | |
| Created By: | TuanND | Date Created: | 17/6/2024 |
| Primary Actor: | Manager | Secondary Actors: | Admin, Staff |
| Description: | As a provider, I want to see user post detail | | |
| Trigger: | User want a function show all post information and client information who posting | | |
| Preconditions: | PRE-1. The account must be manager  PRE-2. The account mustn’t be banned | | |
| Postconditions: | None | | |
| Normal Flow: | 1. User login with manager account  2. Click in service in menu in homepage  3. Choose manage post  4. Click to the post that user want to approve  5. In this page have post information and client information  6. Switch this on status to approve | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Business Rules: | FR19 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR19 | Role | Only provider can use this view |

### 3.12 UC-23\_ Give Feedback

#### a. Functional Description

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-23 Give Feedback** | | |
| Created By: | TuanND | Date Created: | 16/6/2024 |
| Primary Actor: | Client | Secondary Actors: | none |
| Description: | As a client, I want to give feedback so that I can comment my opinion | | |
| Trigger: | User want a function to post user opinion | | |
| Preconditions: | PRE-1. The account must be client  PRE-2. The account mustn’t be banned | | |
| Postconditions: | None | | |
| Normal Flow: | 1. User login with client account  2. Scroll down at the and of page and choose “about us”  3. You can rate the star and comment  4. Enter post to post client feedback | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Low | | |
| Business Rules: | FR20 | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |

#### b. Business Rules

|  |  |  |
| --- | --- | --- |
| **ID** | **Business Rule** | **Business Rule Description** |
| FR20 | Role | Only Client can give feedback |

# III. Design Specifications

## 1. <<Feature Name>>

### 1.1 <<SubFeature Name>>

#### a. <<Screen/Function Name>>

*[Provide brief description of the screen/function + related UC here and other details as in the sub-sections]*

##### UI Design

*[This is to describe the UI layout (Mockup prototype) & descriptions for screen fields/components]*

<<Mockup prototype>>

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| ***Field Group Name*** | | |
| <<Field-Name>> | <<Field type>> | <<Field description & data initializing design>> |

##### Database Access

*[Provide the design description for the screen/function to access the database here: what table the screen/function would access, which transactions does it make (C-Create, R-Read, U-Update, or D-Delete), and how/purpose of the access (by providing Description and SQL commands)]*

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| <<Table Name>> | <<transaction(s)>> | <<Table access description: purpose, how,…>> |
| .. |  |  |

***SQL Commands***

*[Provide the detailed SQL (select, insert, update...) which are used in implementing the screen/function]*

### 1.2 System Access

#### a. User Login

This screen allows user to be authenticated to the system screens/functionalities.

Related use cases:

* [UC02\_Login System](#_3j2qqm3)

##### UI Design

\A screen shot of a login form

Description automatically generated

| **Field Name** | **Field Type** | **Description** |
| --- | --- | --- |
| Email\* | Text Box | This is for user to input valid email address for logging in |
| Password\* | Password Box | This is for user to input password for logging in |
| Login | Button | User clicks to authenticate him/herself into the system with provided email & password |
| Register | Button | User clicks to redirect to the User Register page for registering new user account to access the system |
| Forgot Password? | Hyperlink | User clicks to redirect to the Password Reset page for resetting his/her forgot password |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Client | R | Verify UserName & Password information |
| Provider | R | Verify UserName & Password information |

***SQL Commands:***

1/ Verify UserName & Password information for client

SELECT \* FROM Client WHERE email = ? AND password = ?

2/ Verify UserName & Password information for provider

SELECT \* FROM Provider WHERE email = ? AND password = ?

#### b. Setting List

##### UI Design

A screenshot of a computer

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Client Information | Text | Show All information about client account |
| Setting Status | Switch | Allow User to ban or unban any acoount |
| Delete | Button | Click to delete user account |
| Create newclient | Form | Add necessary information to create |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Client | RU | Show all all client information in database |
| Provider | RU | Only role admin in provider have right to create or active account, delete |

***SQL Commands:***

1/ Query the list of client

select \* from [Client]

2/ Update, delete, create

INSERT INTO [dbo].[Client]

([firstName]

,[lastName]

,[email]

,[password]

,[phoneNumber]

,[address]

,[image]

,[status]

,[createDate])

VALUES (?,?,?,?,?,?,?,?),

Delete: DELETE FROM [dbo].[Client]

WHERE id =

Update:

UPDATE [dbo].[Client]

SET [status] = ?

WHERE id = ?

##### UI Design

A screenshot of a computer

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Provider Information | Text | Show All information about Provider account |
| Setting Status | Switch | Allow User to ban or unban any acoount |
| Delete | Button | Click to delete user account |
| Create new provider | Form | Add necessary information to create |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Client | RU | Show all all provider information in database |
| Provider | RU | Only role admin in provider have right to create or active account, delete |

***SQL Commands:***

1/ Query the list of client

select \* from [Provider]

2/ Update, delete, create

INSERT INTO [dbo].[Provider]

([email]

,[password]

,[role]

,[createDate]

,[status])

VALUES (?,?,?,?,?),

Delete: DELETE FROM [dbo].[Provider]

WHERE id =

Update:

UPDATE [dbo].[Provider]

SET [status] = ?

WHERE id = ?

##### UI Design

A screenshot of a car

Description automatically generated

A screenshot of a computer screen

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Model Information | Text | Show the model’s name |
| Model Image | img | Show image model |
| Create Model | Button | Click to create model |
| Create new model | Form | Add necessary information to create |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Model | RU | Show all all model in database |
| Provider | RU | Only role admin in provider have right to create model |

***SQL Commands:***

1/ Query the list of client

select \* from [Model]

2/ create

INSERT INTO [dbo].[Model]

([ModelName]

,[img])

VALUES (?,?),

##### UI Design

A screenshot of a computer

Description automatically generated

A screen shot of a computer screen

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Brand Information | Text | Show the brand name |
| Brand Image | img | Show image model |
| Create Brand | Button | Click to create model |
| Create new brand | Form | Add necessary information to create |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Brand | RU | Show all all brand in database |
| Provider | RU | Only role admin in provider have right to create brand |

***SQL Commands:***

1/ Query the list of client

select \* from [Brand]

2/ create

INSERT INTO [dbo].[Brand]

([BrandName]

,[img])

VALUES (?,?)

##### UI Design

A screenshot of a computer

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| PostID | Text | Show the postID |
| Car Name | Text | Show Car Name |
| Status | Switch | Show the status of their post |
| Price | Text | Show the car’s price |
| Created date | DATE | Show the create date |
| Home | button | Go to home page |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Post | RU | Show all all Post client had create |
| Provider | RU | Only role admin in provider have right to create brand |

***SQL Commands:***

1/ Query the list of post

select \* from [Post]

##### UI Design

A screenshot of a computer

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Image | img | Show car iamge |
| Car Name | Link | Show about car detail |
| Year | Text | Show year of the car |
| Price | Text | Show the car’s price |
| Description | Text | Show the discription |
|  |  |  |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Post | RU | Show the post that provider had approval |

***SQL Commands:***

1/ Query the list of post

select \* from [Post]

#### c. Setting Details

##### UI Design

A screenshot of a car

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Name | h2 | Name of the Car |
| Owner post | link | This help client can know the owner post |
| Car’s Information | H4 | This is detail about the car |
| Image | img | Show all image about the car |
| Description | H3 | Description of the car |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Post | RU | Show all post information about the car |
| Car Image | RU | Show the Car image of the post |
| Car | RU | Show the Brand and Model |
| Client | RU | The person who post this image |

***SQL Commands:***

1/ Query detail post

SELECT \* FROM [Post] WHERE id = ?

select \* from [gearbox] where GearboxID = ?

select \* from [origin] where OriginID = ?

select \* from [interiorColor] where InteriorColorID = ?

select \* from [exteriorColor] where ExteriorColorID = ?

select \* from [numberOfDoors] where NumberOfDoorsID = ?

select \* from [engine] where EngineID = ?

select \* from [numberOfSeats] where NumberOfSeatsID = ?

select \* from Client where id = ?

SELECT \* FROM [dbo].[Car] WHERE id = ?

SELECT \* FROM [Brand] WHERE BrandID = ?

SELECT \* FROM [Model] WHERE ModelID = ?

SELECT \* FROM [dbo].[carImage] WHERE postId = ?

##### UI Design

A screenshot of a computer

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Field Type** | **Description** |
| Name Detail | Text | Name of the Car |
| Status | Switch | Help provider approval post’s status |
| Owner post | link | This help provider know thisaccount have how many post |
| Car’s Information | Text | This is detail about the car |
| Image | img | Show all image about the car |
| Description | Text | Description of the car |

##### Database Access

|  |  |  |
| --- | --- | --- |
| **Table** | **CRUD** | **Description** |
| Post | RU | Show all post information about the car |
| Car Image | RU | Show the Car image of the post |
| Car | RU | Show the Brand and Model |
| Client | RU | The person who post this image |

***SQL Commands:***

1/ Query detail post

SELECT \* FROM [Post] WHERE id = ?

select \* from [gearbox] where GearboxID = ?

select \* from [origin] where OriginID = ?

select \* from [interiorColor] where InteriorColorID = ?

select \* from [exteriorColor] where ExteriorColorID = ?

select \* from [numberOfDoors] where NumberOfDoorsID = ?

select \* from [engine] where EngineID = ?

select \* from [numberOfSeats] where NumberOfSeatsID = ?

select \* from Client where id = ?

SELECT \* FROM [dbo].[Car] WHERE id = ?

SELECT \* FROM [Brand] WHERE BrandID = ?

SELECT \* FROM [Model] WHERE ModelID = ?

SELECT \* FROM [dbo].[carImage] WHERE postId = ?

# IV. Appendix

## 1. Assumptions & Dependencies

*[Record any assumptions that were made when conceiving the project and writing this vision and scope document. Note any major dependencies the project must rely upon for success, such as specific technologies, third-party vendors, development partners, or other business relationships.]*

<<Sample:

AS-1: Systems with appropriate user interfaces will be available for cafeteria employees to process the expected volume of meals ordered.

AS-2: Cafeteria staff and vehicles will be available to deliver all meals for specified delivery time slots within 15 minutes of the requested delivery time.

DE-1: If a restaurant has its own on-line ordering system, the Cafeteria Ordering System must be able to communicate with it bi-directionally.

>>

## 2. Limitations & Exclusions

*[Identify any product features or characteristics that a stakeholder might anticipate, but which are not planned to be included in the new product]*

## 3. Business Rules

*[Provide common business rules that you must follow. The information can be provided in the table format as the sample below]*

<<Sample

|  |  |  |
| --- | --- | --- |
| **ID** | **Category** | **Rule Definition** |
| BR-01 | Constraints | Delivery time windows are 15 minutes, beginning on each quarter hour. |
| BR-02 | Constraints | Deliveries must be completed between 10:00 A.M. and 2:00 P.M. local time, inclusive. |
| BR-03 | Facts | All meals in a single order must be delivered to the same location. |
| BR-04 | Facts | All meals in a single order must be paid for by using the same payment method. |
| BR-11 | Constraints | If an order is to be delivered, the patron must pay by payroll deduction. |
| BR-12 | Computations | Order price is calculated as the sum of each food item price times the quantity of that food item ordered, plus applicable sales tax, plus a delivery charge if a meal is delivered outside the free delivery zone. |
|  |  |  |

>>

## 4. ..