

Requirement & Design Specification

**Learn2Drive(L2D)**

**Version: 1.0**

**Group 3**

|  |  |
| --- | --- |
| **Project Code** | L2D |
| **Document Code** | L2D\_v.1.0 |
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– HCM City, November 8th 2023 –

[**I. Overview**](#_30j0zll) **5**

[1. User Requirements](#_1fob9te) 5

[1.1 Actors](#_3znysh7) 5

[1.2 Use Cases](#_2et92p0) 6

a. Diagram(s) 6

b. Use Case List 6

[2. Overall Functionalities](#_tyjcwt) 9

[2.1 Screens Flow](#_3dy6vkm) 9

[2.2 Screen Descriptions](#_1t3h5sf) 9

[2.3 Screen Authorization](#_4d34og8) 10

[3. System High Level Design](#_17dp8vu) 10

[3.1 Database Design](#_3rdcrjn) 10

a. Database Schema 10

[b. Table Descriptions](#_lnxbz9) 11

[3.2 Code Packages](#_35nkun2) 14

[**II. Requirement Specifications**](#_1ksv4uv) **15**

[1. Guest](#_44sinio) 15

[1.1 UC-01-Register](#_2jxsxqh) 15

[1.2 UC-02-Register](#_8iy3sjous56n) 15

[1.3 UC-03-View Contact](#_ovmq7qafjqd8) 16

[2. Registered User](#_z337ya) 18

[2.1 UC-04-Login](#_ypwaj64gs1o) 18

[2.2 UC-05-Logout](#_vdxc7i67r20) 19

[2.3 UC-06-View Profile](#_wzkg4ux7ummn) 19

[2.4 UC-07-Edit Profile](#_u7u3mqhv01h7) 20

[3. User](#_1y810tw) 21

[3.1 UC-08-Exam Register](#_4i7ojhp) 21

[3.2 UC-09-Attempt Practice Quiz](#_2xcytpi) 22

[3.3 UC-10-View Document](#_x6jglqv45dgs) 23

[3.4 UC-11-View Vehicle List](#_qgp6wfn55dom) 23

[3.5 UC-12-View Vehicle Detail](#_w7vmobvg5k2v) 24

[3.6 UC-13-Hire Lecture](#_6nx921y82p4j) 25

[3.7 UC-14-View Schedule](#_yik5l3180baa) 25

[3.8 UC-15-View Rent List](#_mlil0jahyz0o) 26

[3.9 UC-16-View Rent Detail](#_as2cahk6u9xc) 27

[3.10 UC-17-Refund](#_ul9clvfv8tx) 27

[3.11 UC-18-Cancel Rent](#_b57m997zlubl) 28

[4. Teacher](#_kxoi40ut2hzt) 29

[4.1 UC-19-View Hire Request](#_u9l4u6dcjwwz) 29

[4.2 UC-20-Add Schedule](#_yriigwlblz8j) 30

[4.3 UC-21-Update Schedule](#_pe4mq0r0wjqc) 30

[4.4 UC-22-Delete Schedule](#_ih39h5oqzn4y) 31

[5. Staff](#_adkapvfu4kox) 32

[5.1 UC-23-Disable User](#_yc5v574bjht8) 32

[5.2 UC-24-Generate Quiz](#_ubhvcmu5pk9y) 32

[5.3 UC-25-View Quiz List](#_fkar6fh96it7) 33

[5.4 UC-26-View Quiz Detail](#_w2sm2jjrjxtb) 34

[5.5 UC-27-Modify Quiz](#_32czefa7iqhk) 34

[5.6 UC-28-Add Vehicle](#_czwmdy1l5z17) 35

[5.7 UC-29-Edit Vehicle Detail](#_txc3np2x0gsg) 36

[5.8 UC-30-Add Rent](#_rvlv703x5khv) 36

[5.9 UC-31-Update Rent](#_utyndyeot5hz) 37

[5.10 UC-32-Delete Rent](#_qs6ypbbks91x) 38

[6.Admin](#_udm96y9jknms) 39

[6.1 UC-33-Change Role](#_uhpg3i4zs8dk) 39

[6.2 UC-34-Disable Account](#_amtfxswvfjua) 39

[6.3 UC-35-Delete Account](#_biuhqxw4utfy) 40

[6.4 UC-36-System Configuration](#_yjxtoicq7jty) 41

[**III. Appendix**](#_3as4poj) **42**

[1. Assumptions & Dependencies](#_1pxezwc) 42

[2. Limitations & Exclusions](#_49x2ik5) 42

[3. Business Rules](#_2p2csry) 43

# I. Overview

## 1. User Requirements

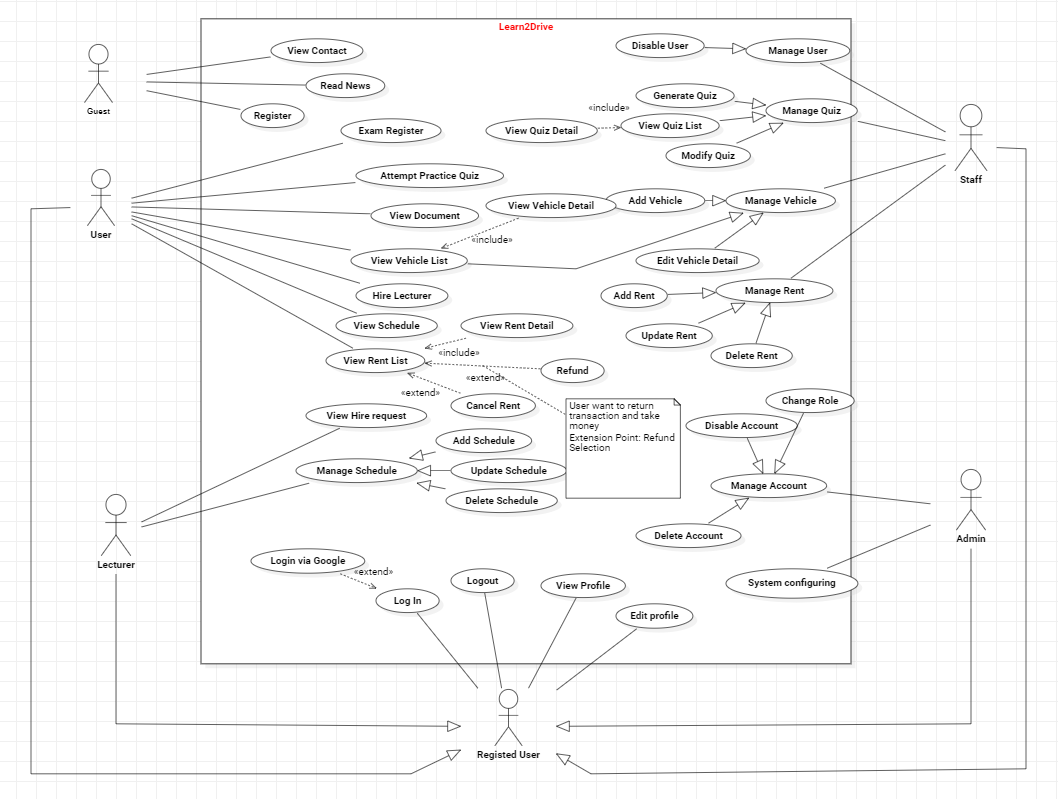
### 1.1 Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Admin | Admin can change accounts configurations, view dashboard stats data |
| 2 | Staff | Staff edit their info, can manage rent vehicles, quizzes, timetables |
| 3 | User | Users can rent vehicles to practice for their driving license exams. Users can register for driving license exam preparation courses in 3 different times in  a day on the homepage, which is notified by the teachers. Users can also register for the upcoming exams by submitting an exam profile which is notified by the staff team. |
| 4 | Teacher | Teachers can view their teaching schedules. |
| 5 | Guest | Guests can view system introduction, view license details, view vehicles. |
| 6 | Registered User | Registered Users can change their Personal information |

### 1.2 Use Cases

#### a. Diagram(s)

#### b. Use Case List



Link Backup:[Learn2Drive\_Usecase.pdf](https://drive.google.com/file/d/1DFlkTKOvmHrA9kKLG_5g46ygxdcLm_PP/view?usp=sharing)

| **ID** | **Actor** | **Use Case** | **Use Case Description** |
| --- | --- | --- | --- |
| 01 | Guest | Register | Allow actor to register an Account |
| 02 | Guest | Read News | Allow actor to view News |
| 03 | Guest | View Contact | Allow actor to view how to contact host |
| 04 | Registered User | Login | Allow actor to login the system |
| 05 | Registered User | Logout | Allow actor to logout the system |
| 06 | Registered User | View Profile | Allow actor to view their personal information |
| 07 | Registered User | Edit Profile | Allow actor to edit their personal information |
| 08 | User | Exam Register | Allow actor to register to driving license test |
| 09 | User | Attempt Practice Quiz | Allow actor to practice theory test |
| 10 | User | View Document | Allow actor to view question bank |
| 11 | User | View Vehicle List | Allow actor to view all vehicle for rent |
| 12 | User | View Vehicle Detail | Allow actor to view a vehicle actor want to rent |
| 13 | User | Hire Lecture | Allow actor to connect with lecture |
| 14 | User | View Schedule | Allow actor to view their lesson |
| 15 | User | View Rent List | Allow actor to view all their rental car |
| 16 | User | View Rent Detail | Allow actor to view a rental car actor want |
| 17 | User | Refund | Allow actor to refund for rent |
| 18 | User | Cancel Rent | Allow actor to stop the process of rent |
| 19 | Teacher | View Hire Request | Allow actor to view hire request of user |
| 20 | Teacher | Add Schedule | Allow actor to add new schedule |
| 21 | Teacher | Update Schedule | Allow actor to edit schedule |
| 22 | Teacher | Delete Schedule | Allow actor to delete schedule |
| 23 | Staff | Disable User | Allow actor to restrict user |
| 24 | Staff | Generate Quiz | Allow actor to create new quiz |
| 25 | Staff | View Quiz List | Allow actor to view all quiz |
| 26 | Staff | View Quiz Detail | Allow actor to view a quiz actor want |
| 27 | Staff | Modify Quiz | Allow actor to edit quiz |
| 28 | Staff | Add Vehicle | Allow actor to add new vehicle to vehicle list |
| 26 | Staff | Edit Vehicle Detail | Allow actor to edit an exist vehicle |
| 30 | Staff | Add Rent | Allow actor to create new rent |
| 31 | Staff | Update Rent | Allow actor to edit rent |
| 32 | Staff | Delete Rent | Allow actor to delete rent |
| 33 | Admin | Change Role | Allow actor to change account role |
| 34 | Admin | Disable Account | Allow actor to disable any account |
| 35 | Admin | Delete Account | Allow actor to delete any account |
| 36 | Admin | System Configuration | Allow actor to configure the system |

## 2. Overall Functionalities

### 2.1 Screens Flow

### 

### 

### 2.2 Screen Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **Screen** | **Description** |
| 1 | Home Page | Learn2Drive System | First view when open the app. Display main purpose, documents with buttons for people to start study or view information. |
| 2 | View Licenses Detail | License Information | View License detail information, how to get, tips on exam… |
| 3 | View Practice Places | Practice Places | Show list of street name to practice for motor and car |
| 4 | View New Blogs | News | Show new about exam, new government rule, recently updated street rule… |
| 5 | Role Division | Register Account | Login account created with specific role or create a new user account |
| 6 | Modify User Detail | View, Edit Info |  |
| 7 |  | Register real Exam |  |
| 8 |  | Take practical exam |  |
| 9 |  | Rent vehicle |  |
|  | View Questions, Answers | Study |  |

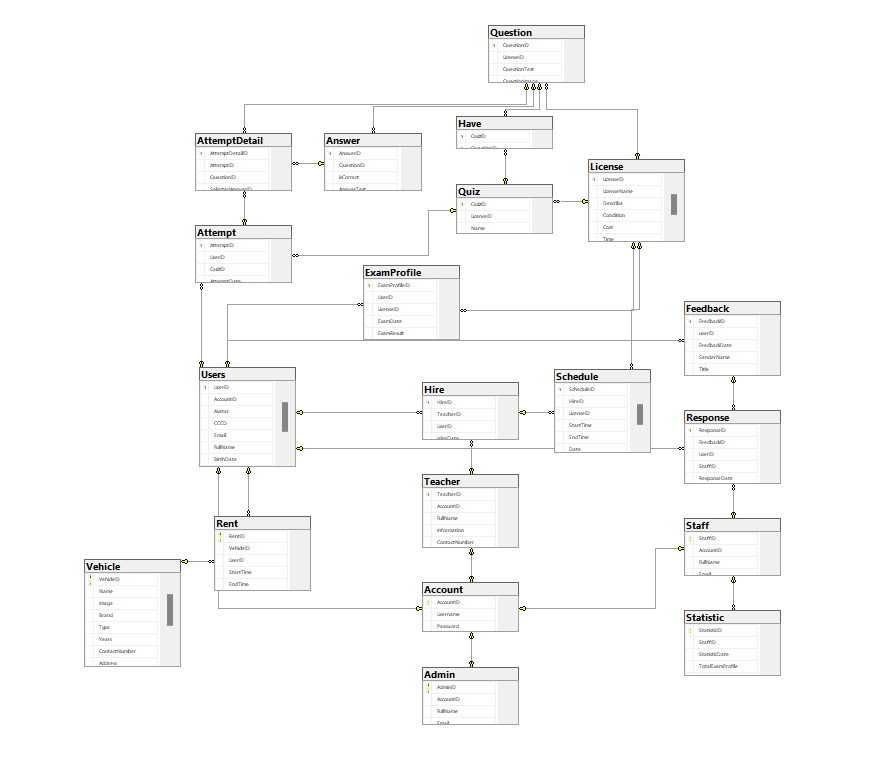
### 2.3 Screen Authorization

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | **Guest** | **User** | **Lecturer** | **Staff** | **Admin** |
| Home Page | X | X | X | X | X |
| Introduction | X | X | X | X | X |
| Update Profile |  | X | X | X | X |
| Licenses Information | X | X | X | X | X |
| Manage Page |  |  |  | X | X |
| Query All Data |  |  |  | X |  |
| Query Own Data |  | X | X | X | X |
| Query Managed Data |  |  | X |  |  |
| Add New Data |  |  | X | X |  |
| Update All Data |  |  |  | X |  |
| Update Own Data |  |  |  | X |  |
| Update Managed Data |  |  |  | X |  |
| Delete Data |  |  |  | X |  |
| … |  |  |  |  |  |

## 3. System High Level Design

### 3.1 Database Design

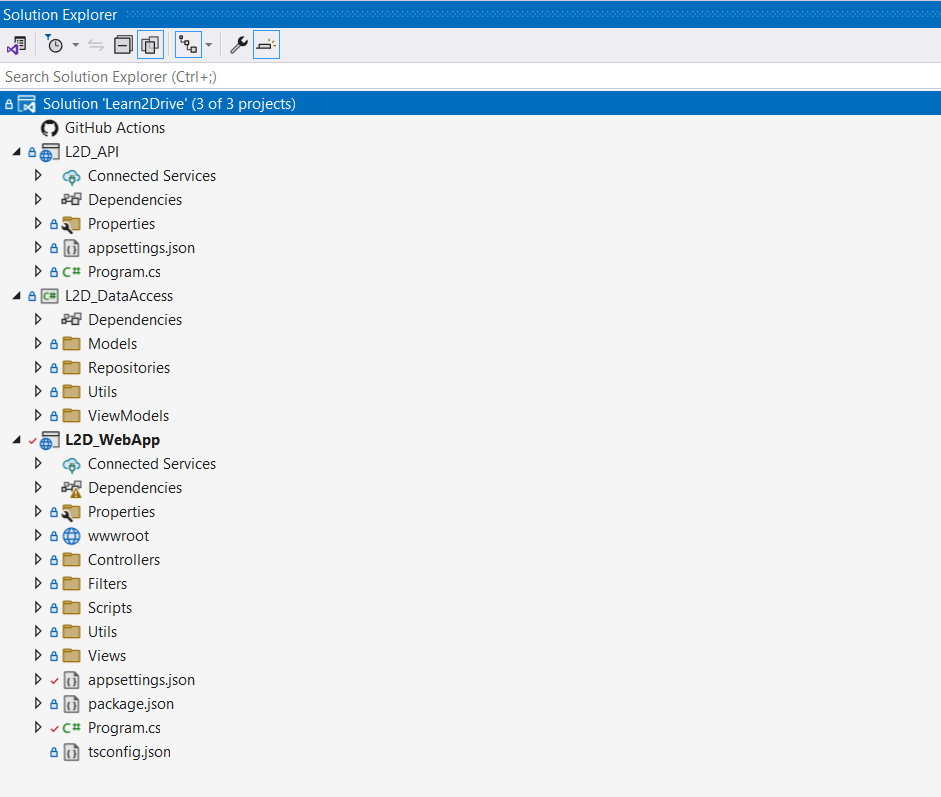
#### a. Database Schema



#### b. Table Descriptions

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| 01 | Account | This table stores the system accounts information   * Primary key: AccountID * Foreign key: none |
| 02 | Users | Contains the data of users   * Primary key: UserID * Foreign key: * AccountID references Account table (AccountID column) |
| 03 | Vehicle | This table contains the data of vehicles for users to rent   * Primary key: VehicleID |
| 04 | License | This table contains the data of License   * Primary key: LicenseID * Foreign key: none |
| 05 | Rent | This table contains the rent orders of users. When users rent vehicles, a rent request will be called to insert data to this table.   * Primary key: RentID * Foreign key: * VehicleID references Vehicle table (VehicleID column) |
| 06 | ExamProfile | This table stores the data of users’ driving license exam profile, the insert to this table is called when the users submit their exam profile forms.   * Primary key: ExamProfileID * Foreign keys: * UserID references Users table (UserID column) * LicenseID references License table (LicenseID column) |
| 07 | Quiz | This table stores the data of quizzes   * Primary key: QuizID * Foreign key: * LicenseID references License table (LicenseID column) |
| 08 | Question | This table stores the data of questions   * Primary key: QuestionID * Foreign key: none |
| 09 | Have | This table represent the many to many relationship between Quiz table and Question table   * Primary key: (QuizID, QuestionID) |
| 10 | Answer | This table contains the answer data of questions in the Question table   * Primary key: AnswerID * Foreign key: QuestionID references Question table (QuestionID column) |
| 11 | Attempt | This table stores the data of quiz attempts by users.   * Primary key: AttemptID * Foreign key: UserID references Users table (UserID column) |
| 12 | AttemptDetail | This table stores the detailed data of users’ quiz attempts, which contains correct, incorrect questions and this table can also be used to calculate the result of each quiz attempt.   * Primary key: AttemptDetailID * Foreign key: * AttemptID references Attempt table (AttemptID column) * SelectedAnswerID references Answer table (AnswerID column) |
| 13 | Teacher | This table stores the information of teachers   * Primary key: TeacherID * Foreign key: AccountID references Account table (AccountID column) |
| 14 | Schedule | This table stores the data (date, time) of schedules when User Hire a Teacher   * Primary key: ScheduleID * Foreign key: * UserID references User table (UserID column) * TeacherID references Teacher table(TeacherID column) * HireID references Hire table (HireID column) |
| 15 | Hire | This table stores Hire request of User with a Teacher   * Primary key: HireID * Foreign key: * UserID references User table (UserID column) * TeacherID references Teacher table (TeacherID column) |
| 16 | FeedBack | This table stores information about Feedback of User while using the website   * Primary key: FeedBackID * Foreign key: * UserID references User table (UserID column) |
| 17 | Response | This table stores information about Response of Staff when Staff receive Feedback of User   * Primary key: ResponseID * Foreign key: * FeedBackID references FeedBack table (FeedBackID column) |
| 18 | Staff | This table stores the information of staffs   * Primary key: StaffID * Foreign key: * AccountID references Account table (AccountID column) |
| 19 | Statistic | This table stores data (revenue, registered user number) of Statistic   * Primary key: StatisticID * Foreign key: * StaffID references Staff table (StaffID column) |
| 20 | Admin | This table stores the information of administrator   * Primary key: AdminID * Foreign key: * AccountID references Account table (AccountID column) |

### 3.2 Code Packages



# II. Requirement Specifications

## 1. Guest

### 1.1 UC-01-Register

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-01-Register** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Guest | Secondary Actors: | None |
| Trigger: | Actor decides to register on the website | | |
| Description: | The process of a actor registering on the website | | |
| Preconditions: | * The actor has access to the website * The actor has a valid email address | | |
| Postconditions: | * Actor register the system successfully * The system tracked successful register into the Activity Log | | |
| Normal Flow: | 1. The user navigates to the registration page. 2. The system presents a registration form. 3. The user enters their details, including username, password, email address, and other required information. 4. The system validates the entered information. 5. The system validates the entered information. 6. If validation is successful, the system creates a user account and notifies the user of successful registration. 7. The user can now log in using their registered credentials. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the entered username already exists, the system prompts the user to choose a different one. * If the entered email address is not valid, the system prompts the user to enter a valid email address. * If there are any server errors during registration, the system displays an error message and prompts the user to try again. | | |
| Priority: | Must have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * A user must have a unique username within the system. * Passwords must meet minimum security requirements. * Email addresses must be valid and unique within the system. | | |
| Other Information: | None | | |

### 1.2 UC-02-Register

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-02-Read News** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Guest | Secondary Actors: | None |
| Trigger: | Actor want to access and read new notifications on the website | | |
| Description: | This use case describes the process of an actor reading news articles available on the website. | | |
| Preconditions: | News articles are available in the system. | | |
| Postconditions: | The user has successfully read the selected news article. | | |
| Normal Flow: | 1. The actor navigates to the news section on the nav-bar of the website. 2. The system displays a list of available news articles. 3. The actor selects a specific news article to read. 4. The system presents the selected news article with its content. 5. The actor reads the news article. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are no news articles available, the system notifies the user that there is no content to display. * If there is an error fetching the news article, the system displays an error message and prompts the user to try again. * If the user is not logged in, the system prompts the user to log in before accessing the news articles. | | |
| Priority: | Could have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * News articles should be regularly updated and maintained by the system administrator. * Access to news articles is restricted to registered users. | | |
| Other Information: | None | | |

### 1.3 UC-03-View Contact

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-03-View Contact** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Guest | Secondary Actors: | None |
| Trigger: | Actor wants to view contact information on the website. | | |
| Description: | This use case describes the process of an actor accessing and viewing contact information available on the website. | | |
| Preconditions: | Contact information is available in the system. | | |
| Postconditions: | The actor has successfully viewed the contact information. | | |
| Normal Flow: | 1. The actor navigates to the "Contact" section on the nav-bar of the website. 2. The system displays the contact information, which may include an address, phone number, and email. 3. The actor views the contact information. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is no contact information available, the system notifies the actor that there is no content to display. * If there is an error fetching the contact information, the system displays an error message and prompts the actor to try again. * If the actor is not logged in, the system prompts the actor to log in before accessing the contact information. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Contact information should be regularly updated and maintained by the system administrator. * Access to contact information is available to all actors, whether they are registered or not. | | |
| Other Information: | None | | |

## 2. Registered User

### 2.1 UC-04-Login

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-04-Login** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | User clicks Login button from the page header, or  User accesses an authenticated feature (from a link or type the page URL directly into the address bar) | | |
| Description: | As a actor, 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: | Actor account has been created & authorized | | |
| Postconditions: | * Actor logs in the system successfully * The system tracked successful login into the Activity Log | | |
| 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 clicks the Login button  4. System validates the login details  5. System allows user to access  6. System tracks user’s success login to the Activity Log  7. System accesses the Home Page (or the previous calling page if any) | | |
| Alternative Flows: | ***2.1 Google Login***  1. User chooses to login system using Google account  2. System redirects the user to the Google’s Login screen  3. User types in the Google account details and chooses to login  4. Google validates user’s login information successfully and redirect him/her back to the system  5. Return to step 5 of normal flow. | | |
| Exceptions: | * If the entered username or password is incorrect, the system notifies the actor and prompts them to enter valid credentials. * If the actor's account is locked, the system informs the actor and provides instructions for unlocking the account. * If there are any server errors during the login process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Must Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Actors must have a registered account to log in. * Passwords must meet minimum security requirements. * After a certain number of unsuccessful login attempts, the account may be temporarily locked for security purposes. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 

## 2.2 UC-05-Logout

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-05-Logout** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor decides to log out of the website. | | |
| Description: | This use case describes the process of an actor logging out of the website. | | |
| Preconditions: | The actor is currently logged into the system. | | |
| Postconditions: | The actor is successfully logged out, and access to personalized content is revoked. | | |
| Normal Flow | 1. The actor navigates to the logout option or button within the website. 2. The system acknowledges the request to log out. 3. The system terminates the actor's session and revokes access to personalized content. 4. The system displays a confirmation message indicating successful logout. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor is already logged out (session expired), the system may display a message indicating that no action is taken. * If there are any server errors during the logout process, the system displays an error message and suggests the actor try again. | | |
| Priority: | Must Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Access to personalized content is granted only when the actor is logged in. * After logging out, the actor must reauthenticate to access personalized content. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 2.3 UC-06-View Profile

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-06-View Profile** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to view their profile information on the website. | | |
| Description: | This use case describes the process of an actor accessing and viewing their profile information on the website. | | |
| Preconditions: | The actor is logged into the system. | | |
| Postconditions: | The actor has successfully viewed their profile information. | | |
| Normal Flow | 1. The actor navigates to the "Profile" section of the website. 2. The system displays the actor's profile information, including details such as username, email, and other relevant information. 3. The actor reviews their profile information. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error fetching the profile information, the system displays an error message and prompts the actor to try again. * If the actor is not logged in, the system prompts the actor to log in before accessing the profile information. | | |
| Priority: | Must Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Profile information should be regularly updated and maintained by the actor. * Access to profile information is available only to the actor associated with the profile. * Certain profile fields may be marked as read-only and can only be modified through specific actions. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 2.4 UC-07-Edit Profile

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-07-Edit Profile** | | |
| Created By: | PhucLNH | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to edit their profile information on the website. | | |
| Description: | This use case describes the process of an actor modifying their profile information on the website. | | |
| Preconditions: | * The actor is logged into the system. * The actor has navigated to the "Edit Profile" section | | |
| Postconditions: | The actor has successfully edited their profile information, and the changes are saved in the system. | | |
| Normal Flow | 1. The actor navigates to the "Edit Profile" section of the website. 2. The system displays a form with the actor's current profile information. 3. The actor modifies the desired fields, such as username, email, or other relevant details. 4. The system validates the entered information. 5. If validation is successful, the system updates the actor's profile with the new information and notifies the actor of successful changes. 6. The actor's profile information is now updated with the edited details. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If the actor is not logged in, the system prompts the actor to log in before accessing the profile editing feature. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Must Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 

## 3. User

### 3.1 UC-08-Exam Register

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-08\_Exam Register** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to register for an exam on the website. | | |
| Description: | This use case describes the process of an actor registering to attempt an exam on the website. | | |
| Preconditions: | * The actor is logged into the system. * The actor has navigated to the "Register Exam" section | | |
| Postconditions: | The actor has successfully registered for an exam | | |
| Normal Flow | 1. The actor navigates to the "Edit Profile" section of the website. 2. The system displays a form with the actor's current profile information. 3. The user entered information then click submit | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If the actor is not logged in, the system prompts the actor to log in before accessing the profile editing feature. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.2 UC-09-Attempt Practice Quiz

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-09-Attempt Practice Quiz** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to Attempt Practice Quiz on the website. | | |
| Description: | This use case describes the process of an actor registering to attempt an exam on the website. | | |
| Preconditions: | * The actor is logged into the system. * The actor has navigated to the "Attempt Practice Quiz" section | | |
| Postconditions: | The actor has successfully attempt practice quiz | | |
| Normal Flow | 1. The actor navigates to the "Attempt Practice Quiz" section of the website. 2. The system display a screen with many quiz to test 3. To do the test the user need to login to record the score | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If the actor is not logged in, the system prompts the actor to log in before accessing the profile editing feature. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.3 UC-10-View Document

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-10-View Document** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | Admin |
| Trigger: | Actor wants to View Document on the website. | | |
| Description: | This use case describes the process of an actor view document on the website. | | |
| Preconditions: | The actor has navigated to the "View Document" section | | |
| Postconditions: | The actor has successfully view document | | |
| Normal Flow | 1. The actor navigates to the "View Document" section of the website. 2. The system display a screen with information from website | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If the actor is not logged in, the system prompts the actor to log in before accessing the profile editing feature. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.4 UC-11-View Vehicle List

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-11-View Vehicle List** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | Admin |
| Trigger: | Actor wants to View Vehicle Liston the website. | | |
| Description: | This use case describes the process of an actor View Vehicle List on the website. | | |
| Preconditions: | The actor has navigated to the "View Vehicle List" section | | |
| Postconditions: | The actor has successfully View Vehicle List | | |
| Normal Flow | 1. The actor navigates to the "Vehicle List" section of the website. 2. The system display a screen with information of many vehicles | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.5 UC-12-View Vehicle Detail

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-12-View Vehicle Detail** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | Admin |
| Trigger: | Actor wants to View Vehicle Detail on the website. | | |
| Description: | This use case describes the process of an actor View Vehicle Detail on the website. | | |
| Preconditions: | The actor has navigated to the "View Vehicle Detail" section | | |
| Postconditions: | The actor has successfully View Vehicle Detail | | |
| Normal Flow | 1. The actor navigates to the "Vehicle List" section of the website. 2. The system display a screen with information of many vehicles 3. The actor choose one of vehicle click in it 4. The system navigation to the View Vehicle Detail page | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.6 UC-13-Hire Lecture

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-13-Hire Lecture** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to Hire Lecture. | | |
| Description: | This use case describes the process of an actor Hire Lecture on the website. | | |
| Preconditions: | The actor has navigated to the "Hire Lecture" section | | |
| Postconditions: | The actor has successfully Hire Lecture | | |
| Normal Flow | 1. The actor navigates to the "Hire Lecture" section of the website. 2. The system display a screen with information of lecturers 3. The actor choose one lecturer | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If actor is user is not logged in, the website was requiring log in * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.7 UC-14-View Schedule

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-14-View Schedule** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to View Schedule. | | |
| Description: | This use case describes the process of an actor View Schedule on the website. | | |
| Preconditions: | The actor has navigated to the "View Schedule" section | | |
| Postconditions: | The actor has successfully View Schedule | | |
| Normal Flow | 1. The actor navigates to the "View User Detail" section of the website. 2. Click in the “View Schedule” section 3. The system display schedule information which user has registered with their lecturer | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If actor is user is not logged in, the website was requiring log in * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.8 UC-15-View Rent List

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-14-View Rent List** | | |
| Created By: | TungTS | Date Created: | 11/11/2023 |
| Primary Actor: | Registered User | Secondary Actors: | None |
| Trigger: | Actor wants to View Rent List. | | |
| Description: | This use case describes the process of an actor View Rent List.on the website. | | |
| Preconditions: | The actor has navigated to the "View Rent List" section | | |
| Postconditions: | The actor has successfully View Rent List. | | |
| Normal Flow | 1. The actor navigates to the "View User Detail" section of the website. 2. Click in the “View Rent List” section 3. The system display vehicle information which user was rented | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the actor to correct the information. * If actor is user is not logged in, the website was requiring log in * If there are any server errors during the profile editing process, the system displays an error message and prompts the actor to try again. | | |
| Priority: | Must Have | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.9 UC-16-View Rent Detail

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-16-View Rent Detail** | | |
| Created By: | MinhTT | Date Created: | 11/11/2023 |
| Primary Actor: | User | Secondary Actors: | None |
| Trigger: | Actor wants to Rent Vehicles. | | |
| Description: | This use case describes the process of user’s renting process | | |
| Preconditions: | The actor has navigated to the “View Rent Vehicles” section | | |
| Postconditions: | The actor has successfully rented a vehicle | | |
| Normal Flow | 1. The actor navigates to the “View Rent Vehicles” section of the website. 2. The system displays a list of vehicles with filter section for user to find the vehicles that they want to rent 3. The actor choose one vehicle and click “Thuê ngay” to rent 4. Actor selects start and end date to rent, the corresponding calculated price based on the input dates is displayed | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor selects an invalid date (when the rent start date is after the rent end date or any of 2 date inputs is empty), an alert from the website is displayed. * If the actor account is not a user, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The date input must be in the locale timezone * The calculated price must be formatted in VND | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.10 UC-17-Refund

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-17-Refund** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor wants a refund. | | |
| Description: | This use case describes the refund process | | |
| Preconditions: | The actor has already rent at least one vehicle and navigated to the “Rent History” section on the profile page to refund | | |
| Postconditions: | The actor can receive the refund money by submitting their credit card information | | |
| Normal Flow | 1. The actor must rent at least one vehicle. 2. The actor goes to profile page and click on “Lịch sử thuê xe” section 3. The actor chooses the rent order that he/she wants to refund and clicks refund 4. The actor enter his or her credit card information and submit 5. The system staff will be notified by the refund request and will transfer the refund money to the user | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor submits the form without enough information to refund, an error message will be displayed * If the actor account is not a user, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The credit card must be correctly formatted * The refund money displayed must be formatted in VND | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 3.11 UC-18-Cancel Rent

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-18-Cancel Rent** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor wants to cancel a rent order. | | |
| Description: | This use case describes the canceling rent order process | | |
| Preconditions: | The actor has already rent at least one vehicle and navigated to the “Rent History” section on the profile page to cancel the rent order | | |
| Postconditions: | The rent order is canceled. | | |
| Normal Flow | 1. The actor must rent at least one vehicle. 2. The actor goes to profile page and click on “Lịch sử thuê xe” section 3. The actor chooses the rent order that he/she wants to cancel and clicks cancel button 4. If user has paid for the order before, a form will be displayed and the user will enter his or her credit card information to refund 5. The system staff will be notified by the refund request and will transfer the refund money to the user and also the rent order is canceled | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor submits the form without enough information to refund, an error message will be displayed * If the actor account is not a user, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The credit card must be correctly formatted * The refund money displayed must be formatted in VND | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 4. Teacher

### 4.1 UC-19-View Hire Request

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-19-View Hire Request** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor (teacher) wants to view the hire request from the users. | | |
| Description: | This use case describes the process of viewing hire request | | |
| Preconditions: | The actor (teacher) has already logged in | | |
| Postconditions: | The actor (teacher) can view the hire request history | | |
| Normal Flow | 1. The actor (teacher) goes to his or her profile page 2. The actor (teacher) clicks on the “Lịch sử đăng kí học” section on the sidebar 3. The actor (teacher) can view the hire request of users | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor account is not a teacher or not logged in, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: |  | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 4.2 UC-20-Add Schedule

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-20-Add Schedule** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor (teacher) wants to add new schedule | | |
| Description: | This use case describes the process adding new schedule | | |
| Preconditions: | The actor (teacher) has already logged in | | |
| Postconditions: | The actor (teacher) can add new schedule | | |
| Normal Flow | 1. The actor (teacher) goes to his or her profile page 2. The actor (teacher) clicks on the “Tạo sự kiện mới” section on the sidebar 3. The actor (teacher) enter all information and press Submit 4. A new schedule is added | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor account is not a teacher or not logged in, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * All fields in form are required * Validations: if a new schedule has the same date will any existing schedule slot, the system displays an error. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 4.3 UC-21-Update Schedule

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-21-Update Schedule** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor (teacher) wants to update his or her schedule | | |
| Description: | This use case describes the process of actor(teacher) updating his or her teacher | | |
| Preconditions: | The actor (teacher) has already logged in | | |
| Postconditions: | The actor (teacher) can update his or her schedule | | |
| Normal Flow | 1. The actor (teacher) goes to his or her profile page 2. The actor (teacher) clicks on any schedule slot that they want to update 3. The actor (teacher) change the schedule information and press Submit 4. The schedule is updated | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor account is not a teacher or not logged in, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * All fields in form are required * Validations: if a new schedule has the same date as any existing schedule slot, the system displays an error. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 4.4 UC-22-Delete Schedule

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-22-Delete Schedule** | | |
| Created By: | MinhTT |  |  |
| Primary Actor: | User |  |  |
| Trigger: | Actor (teacher) wants to delete his or her schedule | | |
| Description: | This use case describes the process of deleting schedule | | |
| Preconditions: | The actor (teacher) has already logged in | | |
| Postconditions: | The actor (teacher) can delete his or her schedule | | |
| Normal Flow | 1. The actor (teacher) goes to his or her profile page 2. The actor (teacher) clicks on any schedule slot that they want to delete 3. The actor (teacher) clicks on the delete button and confirm the delete operation 4. The schedule is deleted | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor account is not a teacher or not logged in, the system redirects the actor to the login page. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: |  | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 5. Staff

### 5.1 UC-23-Disable User

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-23-Disable User** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to Disable User. | | |
| Description: | This use case describes the process of staff’s banning who violated terms | | |
| Preconditions: | The actor has navigated to the “User List” section | | |
| Postconditions: | The actor has successfully ban a user | | |
| Normal Flow | 1. The actor navigates to the “View User List” section of the website. 2. The system displays a list of users with filter section to find the user that they want to ban. 3. The actor choose one user account and click “Cấm Tài Khoản” to popup an input text box to write the reason ban. 4. After input, actor click “Đồng ý” to ban with the reason entered. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor doesn’t input any text for the reason of the banning, the reason will be auto generate when actor execute that ban. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.2 UC-24-Generate Quiz

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-24-Generate Quiz** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to Create a new Quiz. | | |
| Description: | This use case describes the process of staff’s creating process | | |
| Preconditions: | The actor has navigated to the “View Quizzes” section | | |
| Postconditions: | The actor has successfully created a quiz | | |
| Normal Flow | 1. The actor navigates to the “View Quizzes” section of the website. 2. The system displays a list of Quiz with filter section for staff to find and check the Quiz name that if it existed or not 3. The actor click “Tạo bộ đề” to generate a quiz 4. The system displays a form to input quiz detail. 5. The actor enter name, description,select license type, select question from question bank or randomly questions and click "Tạo" to create. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor doesn't input quiz name, the system will display a message quiz name is required. * If the actor doesn't select any question and allow the randomly questions and keep click "Tạo" , the system will display an error "Create quiz failed!" and a message "Select question is required". | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The quiz must select or add at least 25 questions | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.3 UC-25-View Quiz List

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-25-View Quiz List** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | User |
| Trigger: | Actor wants to View list of quiz. | | |
| Description: | This use case describes the process of actor’s viewing quiz list process | | |
| Preconditions: | The actor has navigated to the “Quizzes” section | | |
| Postconditions: | The actor has successfully view all quizzes in the system | | |
| Normal Flow | 1. The actor navigates to the “Quizzes” section of the website. 2. The system displays a list of quizzes with filter section for actor to find the quiz that they want to edit or attempt. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor doesn't use the filter section or clear the previous filter, the system will display the default quiz list (all quiz in the system). | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.4 UC-26-View Quiz Detail

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-26-View Quiz Detail** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | User |
| Trigger: | Actor wants to view detail of a Quiz. | | |
| Description: | This use case describes the process of actor’s viewing process | | |
| Preconditions: | The actor has navigated to the “View Quiz List” section | | |
| Postconditions: | The actor has successfully view detail of a quiz | | |
| Normal Flow | 1. The actor navigates to the “View Quiz List” section of the website. 2. The system displays a list of quizzes with filter section for actor to find the quiz that they want to view detail 3. The actor choose one Quiz and click “Chi Tiết” to see that quiz information. 4. The system displays a page with quiz information and its questions | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.5 UC-27-Modify Quiz

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-27-Modify Quiz** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to modify a Quiz. | | |
| Description: | This use case describes the process of staff’s modifying process . | | |
| Preconditions: | The actor has navigated to the “View Quiz List” section. | | |
| Postconditions: | The actor has successfully modify a quiz. | | |
| Normal Flow | 1. The actor navigates to the “View Quiz List” section of the website. 2. The system displays a list of quizzes with filter section for staff to find the quiz that they want to modify. 3. The actor choose one quiz and click “Xóa” to delete the quiz or click “Chỉnh Sửa” to update the quiz 4. If actor click “Xoá”, the system display a warning to confirm deleting the chose quiz. Actor click “Đồng ý” to confirm that Agree to delete. 5. If actor click “Chỉnh Sửa”, the system display the view quiz detail page with buttons: delete, save, cancel, add question, delete question. When actor click save, the detail and questions of that quiz will be update with the new modified quiz. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If the actor doesn’t delete old quiz detail and does not modify something new, the system will not save the detail of that quiz and reload the old detail quiz | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The quiz name input must not be null * The quiz’s questions must have at least 25 questions | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.6 UC-28-Add Vehicle

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-28-Add Vehicle** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to Add Vehicles to rent vehicles list. | | |
| Description: | This use case describes the process of staff’s adding process | | |
| Preconditions: | The actor has navigated to the “View Rent Vehicles” section | | |
| Postconditions: | The actor has successfully add a vehicle | | |
| Normal Flow | 1. The actor navigates to the “View Rent Vehicles” section of the website. 2. The system displays a list of vehicles with filter section for staff to check the vehicles that if they existed or not 3. The actor click “Thêm xe” to add a new vehicle to rent list 4. The system displays a page for staff to input vehicle detail. 5. After input necessary information of vehicle, staff click “Lưu” to save that vehicle with inputed information to system. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The rent price must be formatted in VND | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.7 UC-29-Edit Vehicle Detail

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-29-Edit Vehicle Detail** | | |
| Created By: | HoangPH | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to Edit Vehicle Detail. | | |
| Description: | This use case describes the process of staff’s editing process | | |
| Preconditions: | The actor has navigated to the “View Rent Vehicles” section | | |
| Postconditions: | The actor has successfully updated a vehicle detail | | |
| Normal Flow | 1. The actor navigates to the “View Rent Vehicles” section of the website. 2. The system displays a list of vehicles with filter section for user to find the vehicle that they want to modify its detail 3. The actor choose one vehicle and click “Chỉnh Sửa” to edit that vehicle detail 4. When finish inputting detail for the vehicle, the actor click “Lưu thay đổi” to save the edited detail to system. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * The rent price must be formatted in VND | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.8 UC-30-Add Rent

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-30- Add Rent** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Actor wants to Add Rent | | |
| Description: | Staff need to manually rent a vehicle for a customer who does not want to rent online | | |
| Preconditions: | 1. The staff member has navigated to the “View Vehicles” section | | |
| Postconditions: | 1. The staff member has successfully rented a vehicle on behalf of the customer | | |
| Normal Flow | 1. The staff member navigates to the “Rent Vehicle” section 2. The system displays a screen with information about available vehicles 3. The staff member selects a vehicle based on the customer’s preference 4. The staff member completes the rental process and assign the vehicle to the customer | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the staff member to correct the information. * If there are any server errors during the rental process, the system displays an error message and prompts the staff member to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.9 UC-31-Update Rent

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-31 - Update Rent** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Staff member wants to update the rent details | | |
| Description: | This use case describes the process of a staff member updating the rental details for a vehicle. | | |
| Preconditions: | The staff member has navigated to “Rent Details” section | | |
| Postconditions: | The staff member successfully updated the rental details | | |
| Normal Flow | 1. The staff member navigates to the “Update Rent Details” section 2. Display a screen with the current rental details 3. The staff member modify the necessary fields 4. Complete the update process | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there is an error validating the entered information, the system displays an error message and prompts the staff member to correct the information. * If there are any server errors during the update process, the system displays an error message and prompts the staff member to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 5.10 UC-32-Delete Rent

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-32 - Delete Rent** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Staff | Secondary Actors: | None |
| Trigger: | Staff member wants to delete a rent record | | |
| Description: | This use case describes the process of a staff member deleting a rental record from the system. | | |
| Preconditions: | The staff member has navigated to “Rent Details” section | | |
| Postconditions: | The staff member successfully deleted the exact rent record | | |
| Normal Flow | 1. The staff member navigates to the “ Rent Details” section 2. Click Delete function 3. Staff Member Confirm the delete 4. Complete the delete process | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are any server errors during the deletion process, the system displays an error message and prompts the staff member to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

## 6.Admin

### 6.1 UC-33-Change Role

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-33 - Change Role** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Trigger: | Admin wants to change the role of a user. | | |
| Description: | This use case describes the process of an admin changing the role of a user in the system. | | |
| Preconditions: | The admin has navigated to the “User Management” section. | | |
| Postconditions: | The admin has successfully changed the role of a user. | | |
| Normal Flow | 1. The admin navigates to the “User Management” Section 2. Display a list of users 3. Select a user and navigates to “User Detail” 4. Change the role and save changes. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are any server errors during the updating process, the system displays an error message and prompts the admin to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 6.2 UC-34-Disable Account

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-34 - Disable Account** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Trigger: | Admin wants to disable an account. | | |
| Description: | This use case describes the process of an admin disabling an account in the system. | | |
| Preconditions: | The admin has navigated to the “User Management” section. | | |
| Postconditions: | The admin has successfully disabled a user account. | | |
| Normal Flow | 1. The admin navigates to the “User Management” Section 2. Display a list of users 3. Select a user and navigates to “User Detail” 4. Disable that account and save changes. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are any server errors during the disabling process, the system displays an error message and prompts the admin to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 6.3 UC-35-Delete Account

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-35 - Delete Account** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Trigger: | Admin wants to delete a user account | | |
| Description: | This use case describes the process of an admin deleting a user account in the system. | | |
| Preconditions: | The admin has navigated to the “User Management” section. | | |
| Postconditions: | The admin has successfully deleted a user account in the system. | | |
| Normal Flow | 1. The admin navigates to the “User Management” Section 2. Display a list of users 3. Select a user and delete that user 4. Save changes. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are any server errors during the deleting process, the system displays an error message and prompts the admin to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

### 6.4 UC-36-System Configuration

## 

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-36 - System Configuration** | | |
| Created By: | Thanhnc | Date Created: | 11/11/2023 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Trigger: | Admin wants to configure system settings. | | |
| Description: | This use case describes the process of an admin configuring system settings. | | |
| Preconditions: | The admin has navigated to the “System Configuration” section. | | |
| Postconditions: | The admin has successfully configured system settings. | | |
| Normal Flow | 1. The admin navigates to the “System Configuration” section. 2. The system displays a screen with the current system settings. 3. The admin modifies the necessary settings. 4. The system saves the changes. | | |
| Alternative Flows: | None | | |
| Exceptions: | * If there are any server errors during the configuration process, the system displays an error message and prompts the admin to try again. | | |
| Priority: | Medium | | |
| Frequency of Use: | Undeveloped | | |
| Business Rules: | * Certain profile fields may have specific format or content requirements. * Access to profile editing is available only to the actor associated with the profile. * Changes made to the profile are saved immediately upon successful validation. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 

# III. Appendix

## 1. Assumptions & Dependencies

AS-1: The target audience for the driver license exam learning website consists primarily of individuals preparing for various types of driver's license exams.

AS-2: Users have access to standard internet connectivity and modern web browsers.

AS-3: Users are expected to have basic computer literacy skills, enabling them to navigate and interact with the website seamlessly.

DE-1: The website relies on web development technologies such as HTML, CSS, and JavaScript for its frontend.

DE-2: The accuracy of the learning materials is crucial, and content creation is dependent on collaboration with subject matter experts well-versed in the regulations and requirements of driver's license exams.

DE-3: Regular updates to the content are necessary to reflect any changes in exam patterns, rules, or regulations.

## 2. Limitations & Exclusions

2.1 Technical Limitations:

2.1.1 Offline Access:

The website is designed to operate primarily in an online environment. Offline access to learning materials is not a planned feature, and users will need a stable internet connection to access content.

2.1.2 Browser Compatibility:

While efforts will be made to ensure compatibility with major web browsers, full compatibility with all browsers and versions may not be feasible. The focus will be on widely used browsers like Chrome, Firefox, Safari, and Edge.

2.1.3 Device Responsiveness:

The website aims to be responsive, but due to the diverse nature of devices and screen sizes, complete optimization for all possible configurations cannot be guaranteed.

2.2 Content Limitations:

2.2.1 Language Support:

Initially, the website will primarily provide content in [specified languages]. While efforts will be made to expand language support, it may not cover all languages comprehensively.

2.2.2 Exam Coverage:

The website will focus on common driver's license exams. Specialized or regional exams may not be included in the initial release.

2.3 User Interaction Limitations:

2.3.1 Live Support:

Real-time assistance or live support features are not planned in the initial release. Users will rely on static content, FAQs, and community forums for support.

2.3.2 Social Features:

While the platform may integrate with social media for authentication, the initial release may not heavily emphasize social features such as direct messaging or user-to-user interactions.

2.4 Administrative Limitations:

2.4.1 User Data Management:

Detailed user analytics and data reporting features may have limitations. The initial release will focus on essential user data for functionality and basic analytics.

2.4.2 Content Moderation:

Advanced content moderation features, such as real-time monitoring of user-generated content, may not be part of the initial release.

2.5 Legal and Compliance Exclusions:

2.5.1 Legal Advice:

The website will not provide legal advice on specific traffic laws or regulations. Users are encouraged to consult official sources or legal professionals for precise information.

2.5.2 Third-party Endorsements:

The website will not claim endorsement by any specific licensing authorities unless explicitly stated. Users are advised to verify information with their respective local licensing authorities.

## 3. Business Rules

|  |  |  |
| --- | --- | --- |
| ID | Category | Rule Definition |
| BR-01 | Constraints | Users must be at least 18 years old to access and use the website. |
| BR-02 | Constraints | User accounts are non-transferable. Each account is intended for individual use only. |
| BR-03 | Conduct | Users are required to comply with the website's terms of use and privacy policy. |
| BR-04 | Content | The website will regularly update learning materials to reflect changes in driver's license exam patterns, rules, or regulations. |
| BR-05 | Reporting | Users are encouraged to report any technical issues or content discrepancies for prompt resolution. |
| BR-06 | Fraud Prevention | Users found engaging in fraudulent activities, including attempting to manipulate the learning progress tracker, may face account suspension or termination. |
| BR-07 | Content | The website will not be liable for the accuracy or completeness of user-generated content but will moderate and remove inappropriate or misleading content. |
| BR-08 | Privacy | The website will respect user privacy and adhere to all applicable data protection laws and regulations. |

## 