**Driving School System Use Case Diagram**

Learning how to drive is an essential skill that many people aspire to acquire. To meet this need, online driving school systems have emerged as a popular option for students to learn how to drive from the comfort of their homes. Developing such a system requires careful planning and consideration of the various user interactions and functionalities. This is where use case diagrams come into play. Use case diagrams provide a graphical representation of the different interactions between actors (users) and the system. They help to identify the system's functionalities and ensure that the system meets the needs of its users. In this blog post, we will discuss the benefits of use case diagrams in the development of an online driving school system.

**About the Project**

The capstone project, “Driving School Management System” is a system that allows driving schools to automate all processes and task done for their daily transactions. The system will let driving schools electronically schedule classes and keep records of the students who avail for driving lessons. The researchers of the study proposed a Driving School Management System to automate the processes of daily transactions in driving schools. The system will let the school manage the information of the students who enrolls for driving lesson, the schedule of the students up to the payment transactions of the students.  The system will allow electronic recording and keeping of records of the students enrolled in a specific driving school. The proposed system is efficient and reliable to use by driving schools.

The Online Driving School System is a web-based application designed to assist students in obtaining a driving license. It offers numerous benefits such as convenience, flexibility, and accessibility. With this system, students can easily access training materials and take online classes from the comfort of their homes, without having to worry about the hassle of travelling to a physical location. Additionally, the system provides interactive training modules, including videos and simulations, to help students learn driving skills more effectively.

Another benefit of the Online Driving School System is its cost-effectiveness. It eliminates the need for physical classroom rentals, textbooks, and transportation costs, thus making it a more affordable option for both students and driving schools. Furthermore, the system helps students save time by providing self-paced learning modules that they can access anytime, anywhere, without disrupting their schedules.

The Online Driving School System also promotes safety and security on the road. It ensures that students undergo proper training and evaluation before obtaining a driving license, which helps to reduce road accidents and traffic violations. Additionally, the system stores student records and provides real-time updates to driving schools and licensing agencies, making it easier to track students' progress and ensure compliance with driving regulations.

**What is Use Case Diagram?**

A use case diagram is a type of visual representation in software development that depicts the interactions between an actor (user) and a system to achieve a particular goal or task. Its purpose is to capture the functionalities of a system and provide an overview of how users interact with the system.

In the development of an Online Driving School System, a use case diagram is an essential tool used to identify the actors, their roles, and the interactions that take place between them. The diagram helps to break down the system's functionalities into smaller, more manageable components, making it easier for developers to design and implement the system. It provides a visual representation of the system's use cases, actors, and their relationships, which can help developers to identify and resolve potential design flaws or issues before they become problems.

With a use case diagram, developers can identify the user's goals and tasks and ensure that the system meets the user's needs and expectations. It also ensures that all necessary features are included in the system and that it is designed to be user-friendly and intuitive to use. Overall, a use case diagram plays a crucial role in the development of an Online Driving School System, ensuring that the system is designed to meet the user's needs and expectations.

**Use Case Diagram**



Student

Dashboard

Student Info

Instructor Info

Driving Lessons

Schedule of Practice

Admin

Enrollment Module

Progress Report

Reports

Database Backup

Instructor





The diagram presented above is the Use Case of the capstone project entitled Driving School Management System. The system has three different user sides the Admin, Student and Instructor. The admin can access the entire core modules of the system while the student can access the Driving Lessons, Schedule of Practice, Progress Report and Enrollment Module while the instructor can access the Driving Lessons, Schedule of Practice, and Progress Report.

**Use Cases**

The following are the discussions that describe how a user uses a system to accomplish a particular goal.

**Use Case:** Dashboard

**Actor(s):** Admin

**Description:** This feature is used to manage the details displayed in the dashboard.

**Successful Completion:**

1. The admin can search, add, update and remove dashboard details.

**Alternative:** The admin can access all dashboard details

**Precondition:** The admin will login to access and manage the dashboard

**Post Condition:** updated dashboard details

**Use Case:** Student Info

**Actor(s):** Admin

**Description:** This feature is used to manage the personal profile of the students registered in the system.

**Successful Completion:**

1. The admin can register student profile or account using this feature, for old student, this is used to update their personal profile.
2. Admin can search, add, update and remove a student data or profile.

**Alternative:** Admin can access all of the student’s profile.

**Precondition:** New student for registration, existing students’ profile for updating

**Post Condition:** accepted student registration and updated student profile

**Use Case:** Instructor Info

**Actor(s):** Admin

**Description:** This feature is used to manage the profile of the instructors in the system.

**Successful Completion**:

1. The admin can register profile or account of the instructor using this feature, for old instructor, this is used to update their personal profile.
2. Admin can search, add, update and remove an instructor data or profile.

**Alternative:** Admin can access all of the instructor’s profile.

**Precondition:** New instructor for registration, existing instructor profile for updating

**Post Condition:** accepted instructor registration and updated instructor profile

**Use Case:** Driving Lessons

**Actor(s):** Admin, Student and Instructor

**Description:** This feature is used to view and manage driving lessons in the system.

1. Student and instructor can only view driving lessons.
2. Admin can post, update and upload lesson materials

**Alternative:** Student and instructor can only view driving lessons, while admin can post,update and upload lesson materials

**Precondition:**

1. Student and Instructor will need to login first in order to access the feature.
2. Admin will need to login also to manage the driving lessons.

**Post Condition:** updated driving lessons

**Use Case:** Schedule of Practice

**Actor(s):** Admin, Student and Instructor

**Description:** This feature is used to view and manage the schedule of the driving practice in the system.

1. The student and instructor can only view the schedules of practice.
2. Admin can add, edit or update schedule of practice.

**Alternative:** Student and instructor can only view schedule of practice, while Admin can add, edit or update schedule of practice.

**Precondition:**

1. Student and Instructor will need to login first in order to access the feature.
2. Admin will need to login also to manage the schedule of practice.

**Post Condition:** updated schedule of practice

**Use Case:** Progress Report

**Actor(s):** Admin, Student and Instructor

**Description:** This feature is used to view and manage the progress report of every student in the system.

1. The student can only view their progress report.
2. The instructor can view and update progress report of every student.
3. Admin can add, edit or update progress report of the student.

**Alternative:** Student can only view and instructor can update progress report, while Admin can add, edit or update progress report.

**Precondition:**

1. Student and Instructor will need to login first in order to access the feature.
2. Admin will need to login also to manage the progress report.

**Post Condition:** updated progress report

**Use Case:** Enrollment Module

**Actor(s):** Admin and Student

**Description:** This feature is used to set and manage student enrollment for driving lessons.

1. The student can apply or set schedule using enrolment module
2. The admin can manage and review the applications.

**Alternative:** Student can apply or set schedule using enrolment module while admin can manage and review the applications.

**Precondition:**

1. Student will need to login first in order to access the feature.
2. Admin will need to login also to manage the enrollment module.

**Post Condition:** updated enrollment module

**Use Case:** Reports

**Actor(s):** Admin

**Description:**

This feature is used to view and print the reports in the system.

**Successful Completion:**

1. Admin can view, print and export the report of the system.

**Alternative:** None

**Precondition:**

1. Admin will need to login to access the reports.

**Post Condition:** hard and soft copy of the report of the system.

**Use Case:** Database Backup

**Actor(s):** Admin

**Description:**

This feature is used to manage the backup database of the system.

**Successful Completion:**

1. The admin can add, edit, update database backup information.

**Alternative:** None

**Precondition:** Admin will create and connect the backup database.

**Post Condition:** new backup database.

**Summary**

The blog post titled "Driving School System Use Case Diagram" discusses the importance of use case diagrams in the development of an online driving school system. It describes the purpose of use case diagrams in providing a clear understanding of system functionality and user interaction, helping developers to create a more efficient system. The article explains the various components of a use case diagram, including actors, use cases, and relationships, and how they relate to each other. Additionally, it highlights the advantages of using a use case diagram in the development process, including better communication, improved user experience, and reduced development time and costs. Overall, the blog post provides valuable insights for developers and stakeholders involved in the creation of an online driving school system.