



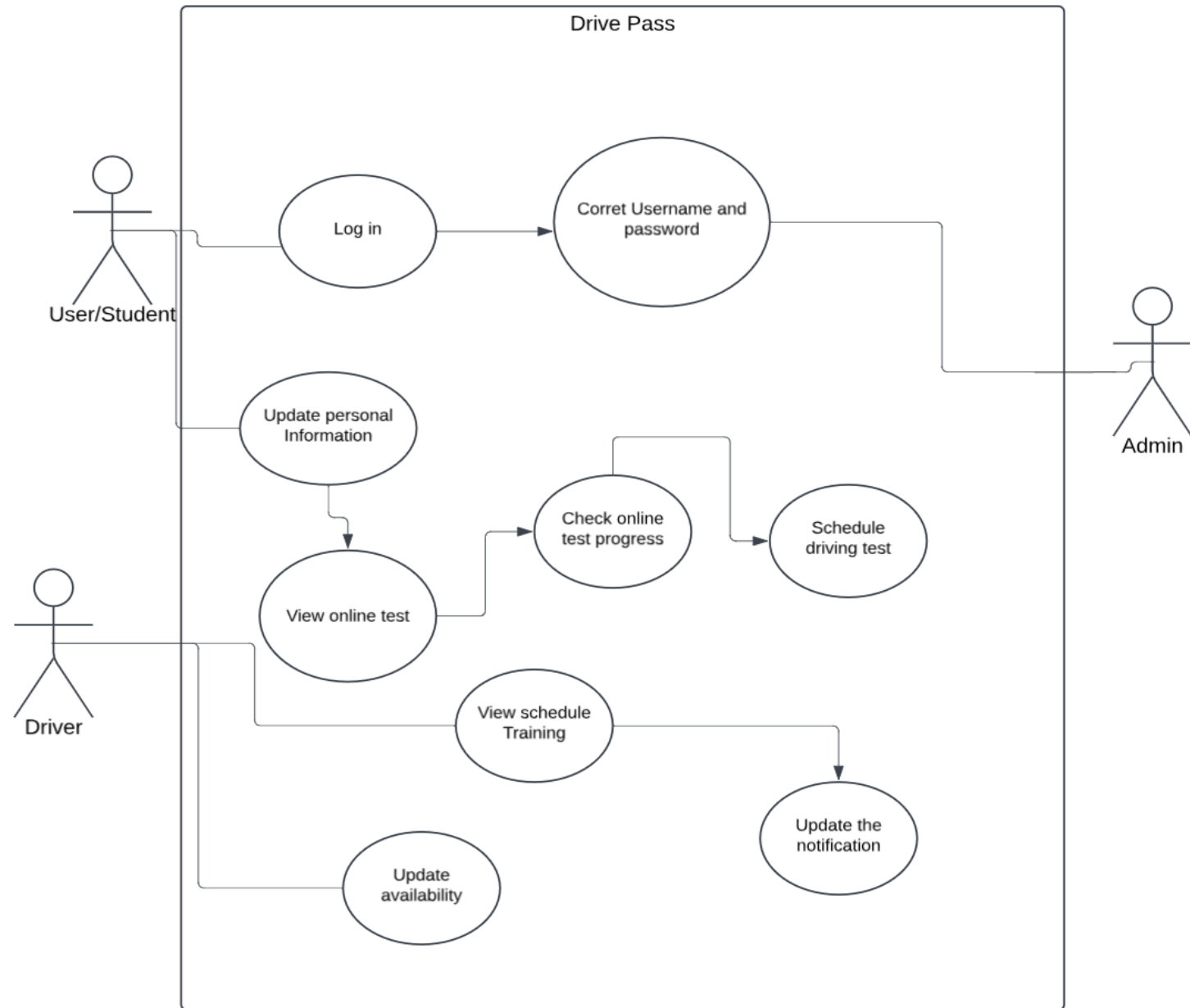
DriverPass System Analysis

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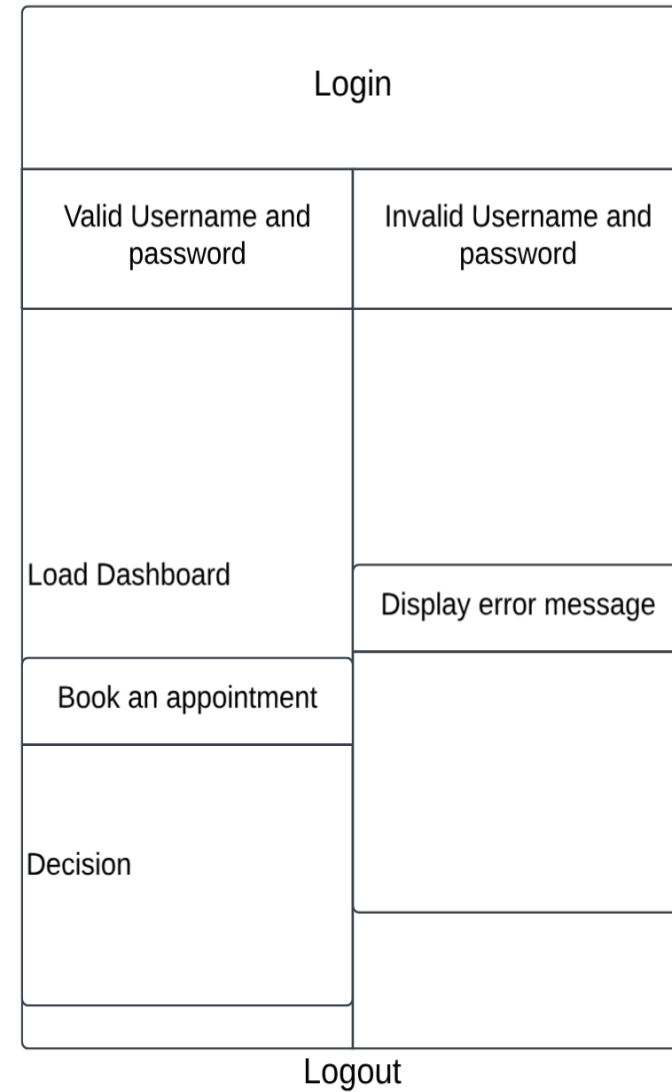
System Requirements

- The functional requirements are:
 1. Online reservation system: This feature will provide convenience, enabling customers to schedule their lesson at any time from their computers/ mobile device This functionality meets the needs for flexibility and accessibility, allowing users to manage their driving lesson without the need to call or visit the office.
 2. Role-based access control: Different users will have different levels of access. For example, the IT officer will have full access, including the ability to reset password, while the secretary can manage appointments, and customers can schedule and modify their own lessons.
- The non-functional requirement are:
 1. Data security: The system must ensure secure handling of user data, including encryption of sensitive information such as credit card details and personal information. Protecting user data is critical to maintaining trust and complying with legal standards, ensuring data security helps prevent unauthorized access and data breaches.
 2. System Availability: The system should be accessible online 24/7, with minimal downtime to ensure users can access it whenever needed. High availability is essential for customer satisfaction, as it allows users to interact with the system at any time, ensuring a smooth and reliable experience.

Use Case Diagram



Activity Diagram





Security

- Role-based access: Different levels of access ensure that only authorized personnel can perform specific actions, reducing the risk of unauthorized changes.
- Data Encryption: Sensitive information, such as customer details and payment information, will be encrypted to prevent unauthorized access.
- Audit Trails: The system will track who made changes to any records, providing a clear history of actions for accountability.

We make sure only the right people can access certain parts of the system, like how only a teacher has access to the grade book. We also lock up sensitive information in a way that only authorized users can see it, and we keep a log of all changes so we can always see who did what?



System Limitations

- Scalability: The current design might face challenges if the user base grows significantly, potentially affecting performances and response times.
- Offline Functionality: While users can view downloaded reports offline, they cannot update the system without an internet connection, which may be inconvenient for some users.

As more people use the system, it might slow down, and you need to be online to make changes or updates. You can still view reports offline, but for any changes, you need to be connected to the internet.