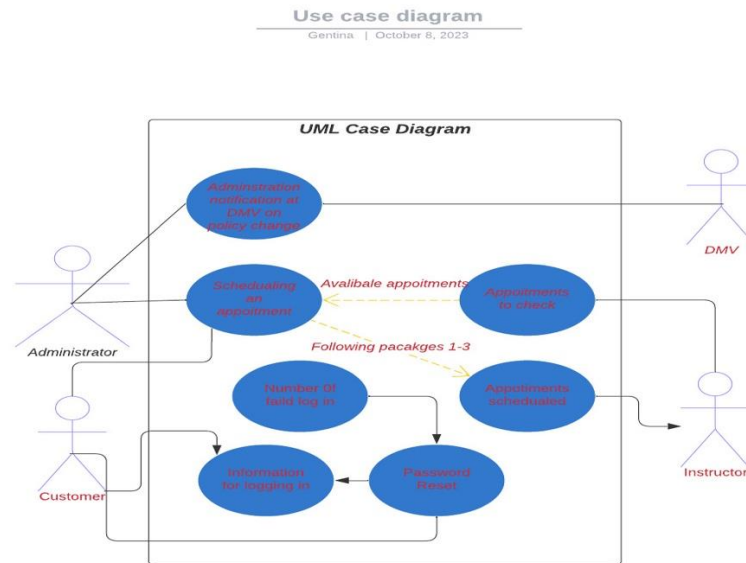


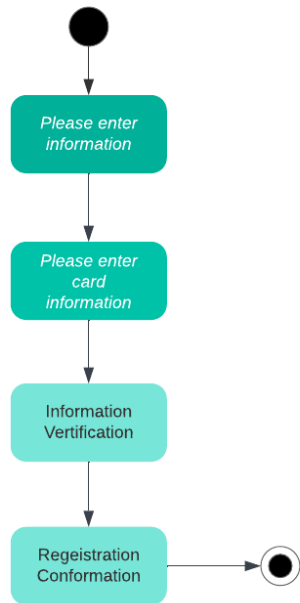
UML Diagrams

UML Use Case Diagram

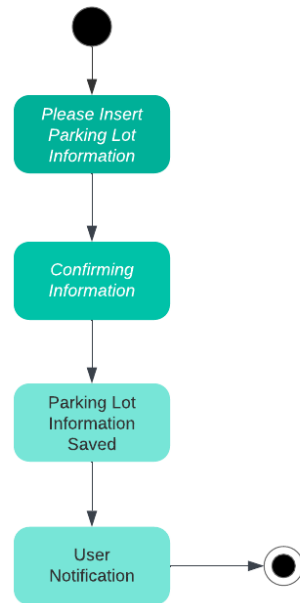


UML Activity Diagrams

Activity Diagram
Gentina | October 22, 2023



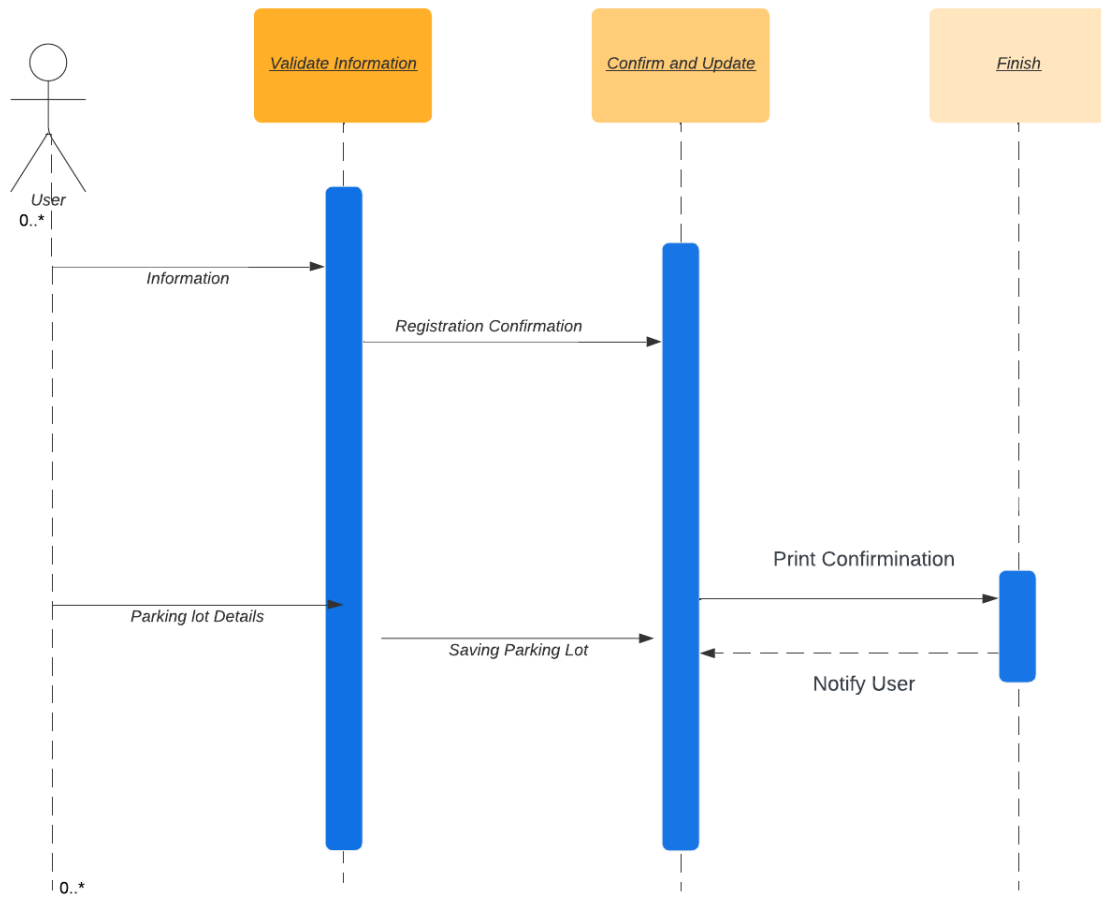
Activity Diagram
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UML Sequence Diagram

Sequence Diagram

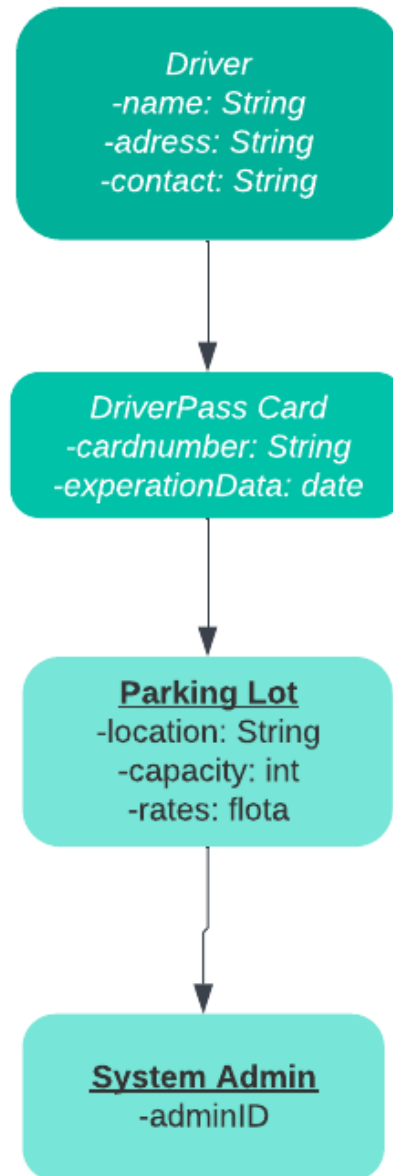
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Class Diagram

Class Diagram

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Technical Requirements

Functional Requirement	Rationale for Requirement
User Authentication	Required for maintaining data security and privacy
Course Management	Required so creators and instructors create, organize and update course content
Assessment and Grading	Required for creating and designing assignments and exams. Helping automate grading and tracking of progression
Analytics and Reporting	Required to gather data of student performance, and course effectiveness
Communication Tools	Required for proper communication through messaging systems and discussion boards.
Integration with External Systems	Required for best user experience, integrated with other systems to enhance accessibility and efficiency

Nonfunctional Requirement	Rationale for Requirement
Scalability	Required to handle a high number of users and content without destroying the user experience or performance
Usability and Accessibility	Required to be accessible to people with special needs and user friendly
Security and Data Privacy	Required to have encryption and authentication policies to keep information private while applying with regulations
Reliability and Availability	Required to accommodate different schedules from different groups
Performance	Required for a great system performance to have the best learning experience.
Interoperability	Required to be able in being used across different platforms and browsers.