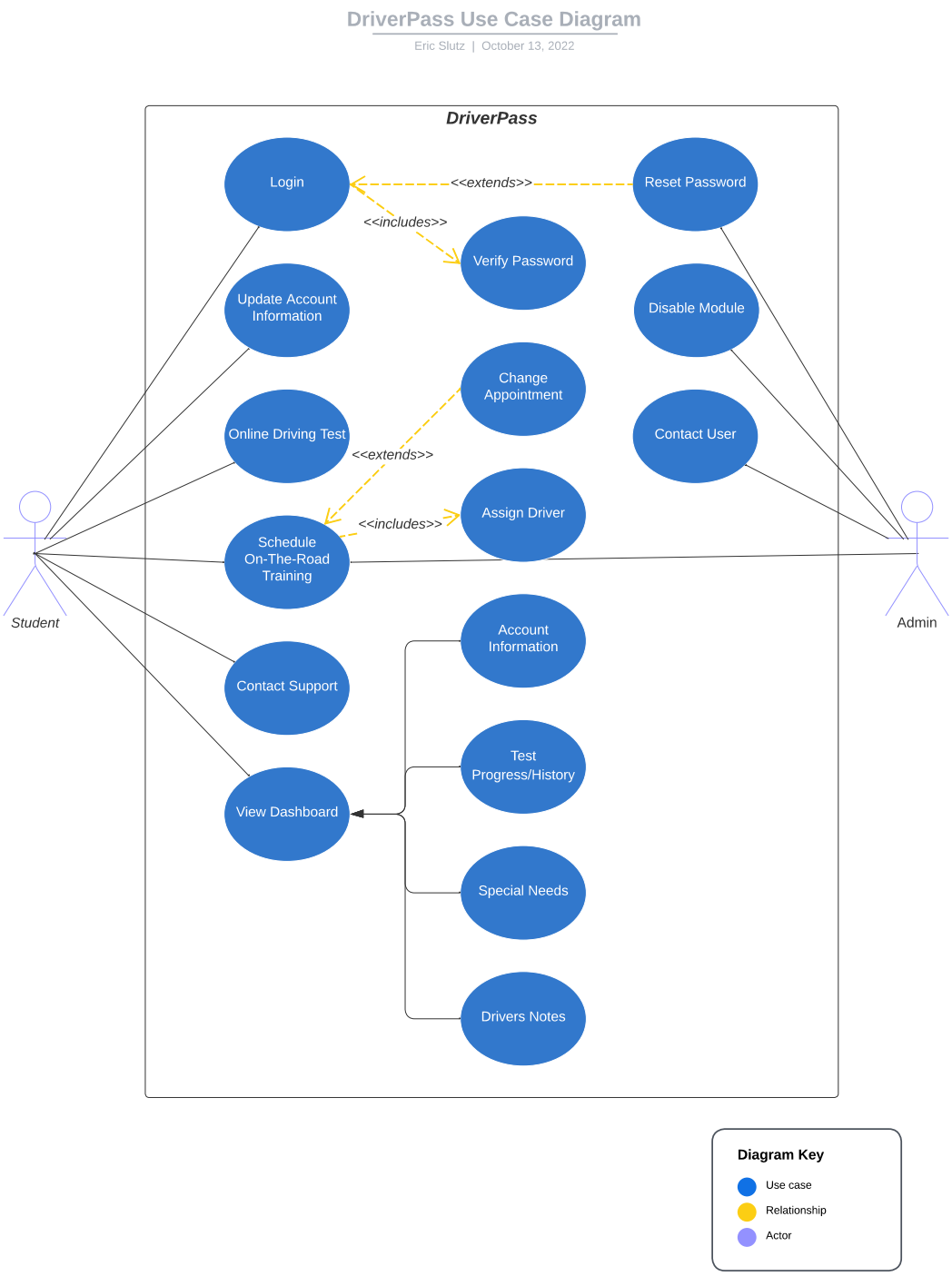
Southern New Hampshire University

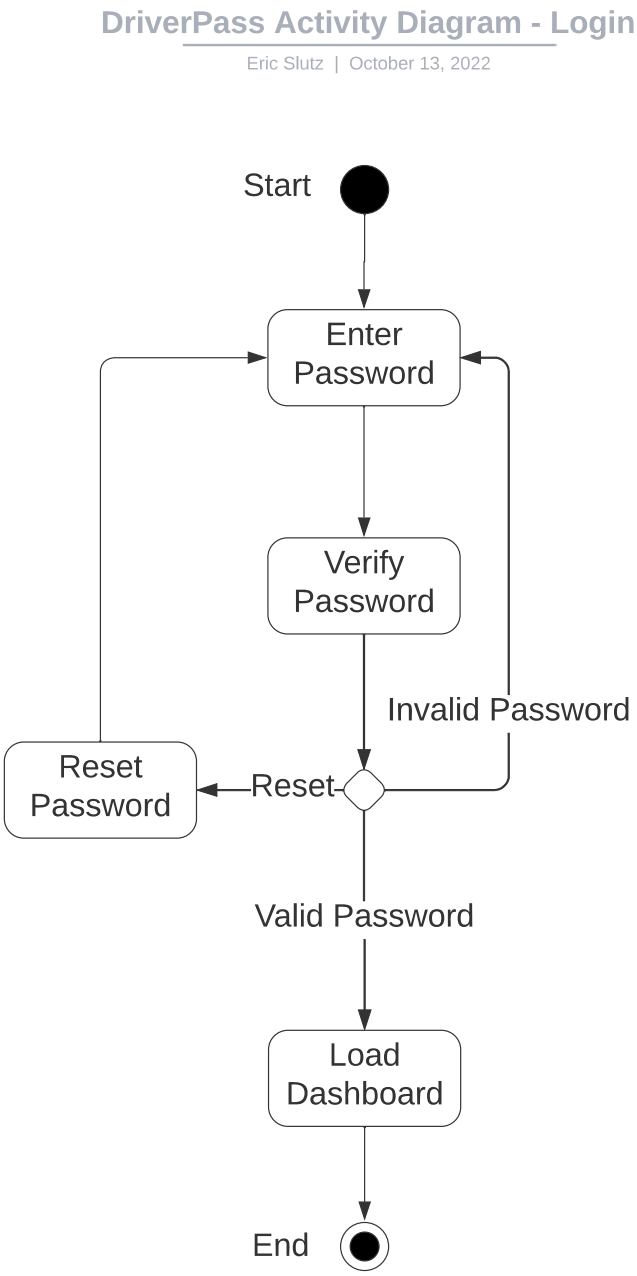
CS 255 System Design Document Template

UML Diagrams

UML Use Case Diagram



UML Activity Diagrams



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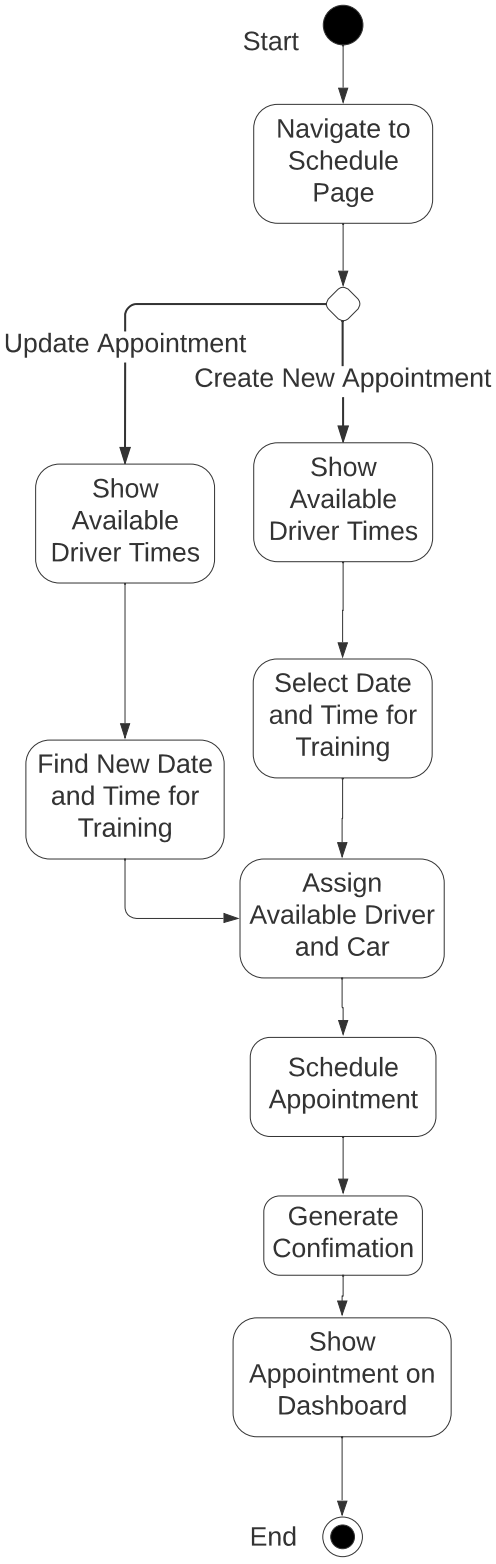
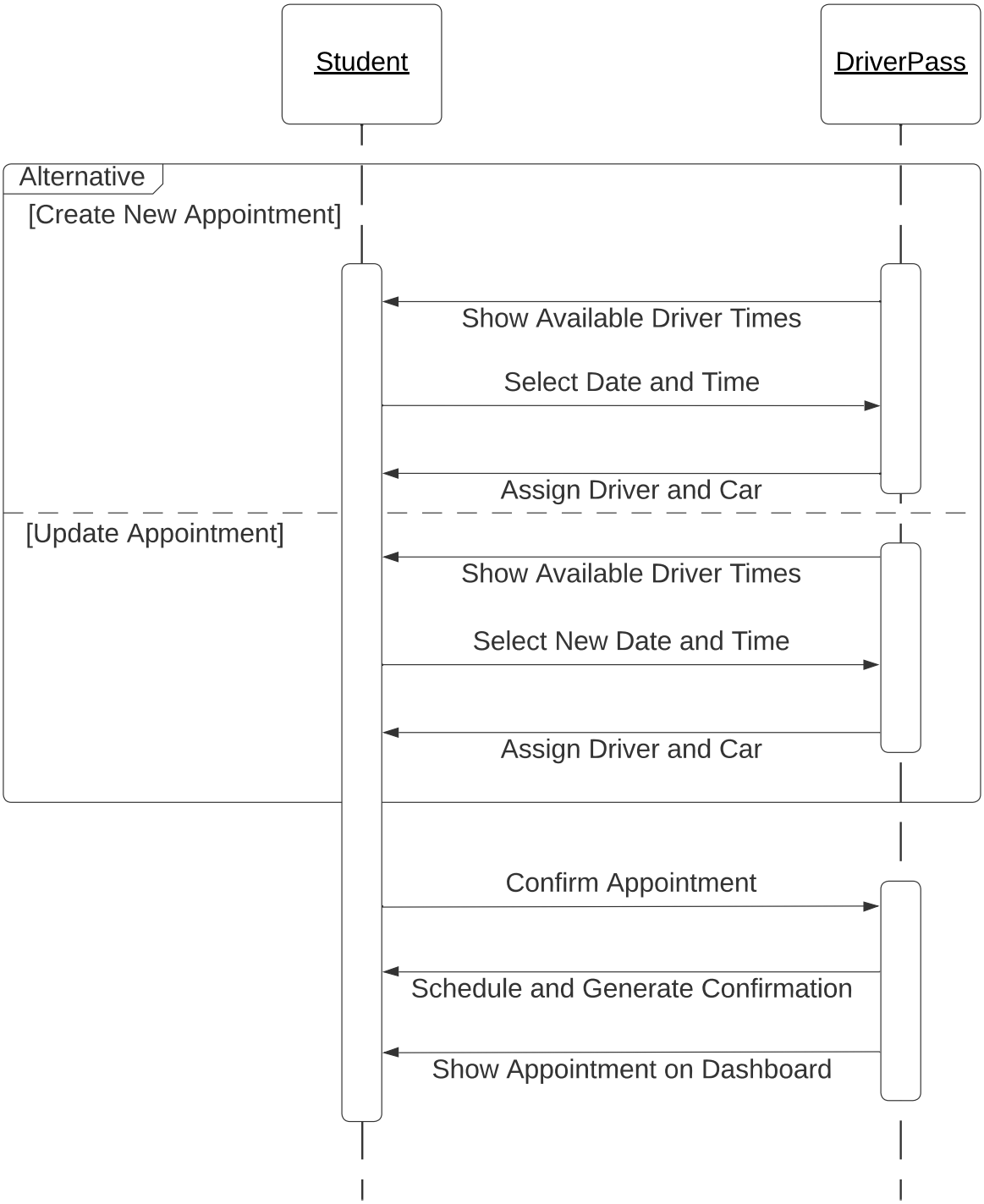
DriverPass Activity Diagram - Schedule On-The-Road Training

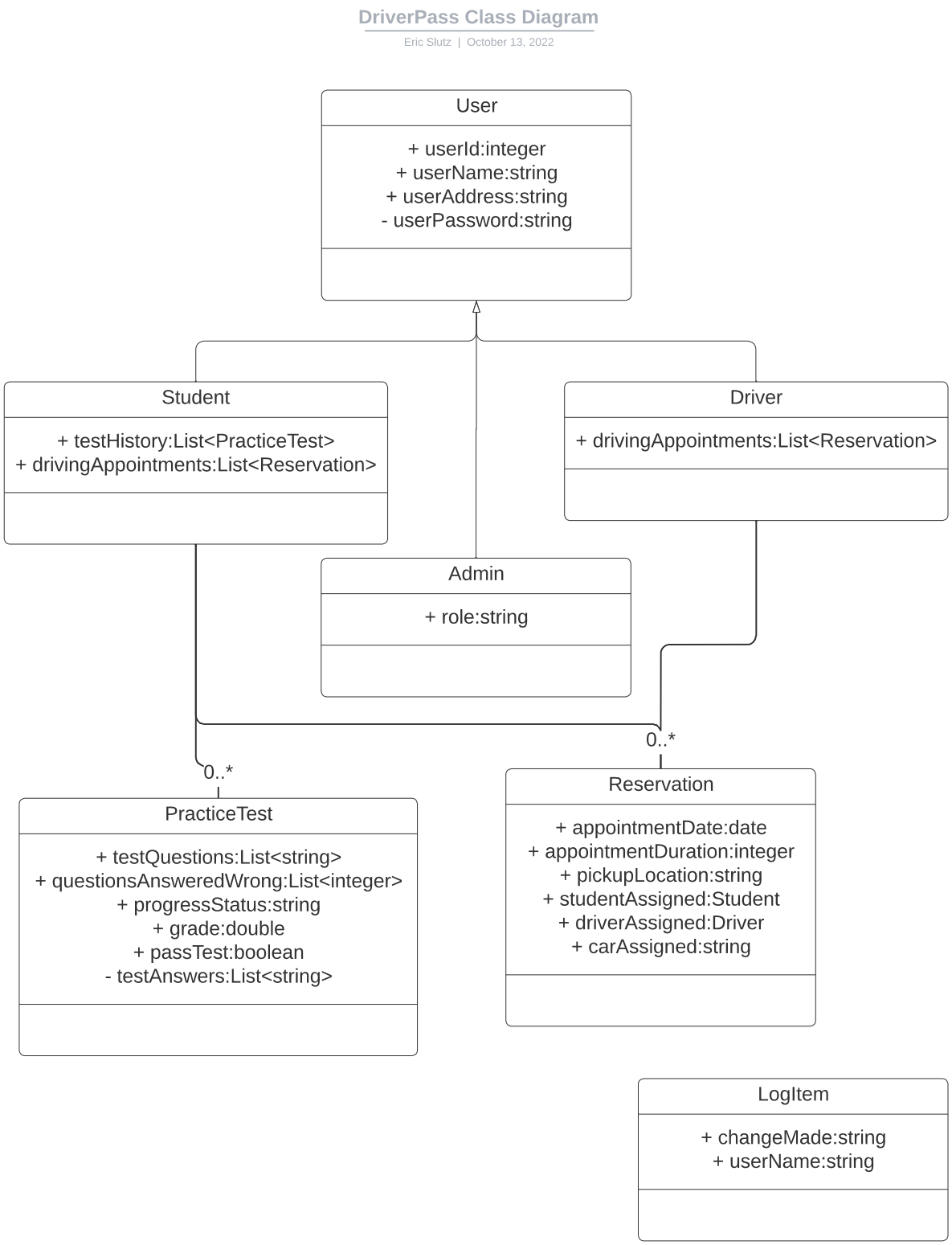
Eric Slutz | October 15, 2022



UML Sequence Diagram



UML Class Diagram



Technical Requirements

The DriverPass system will be cloud based, utilizing the infrastructure provided by one of the cloud providers. The infrastructure should be in multiple availability zones within the US region the ensure the system is always available. The system will require web servers with the latest Linux operating systems. Databases, storage, and the associated software will also be needed to hold user account information as well as practice test information. Load balancers can be utilized to route traffic to the system and help maintain optimum performance of the system. Logging software should be used to track any changes within the system. Scheduling software should be used in the system for handling on-the-road training appointments. Security hardware, such as firewalls, security software, such as an anti-virus program, and security policies should be in place to keep the system secure and information safe. Software updates should be installed regularly in all parts of the system. Tools, such as development software, will be needed to create and maintain the system.