# CS 255 System Design Document – Devin Perry

## UML Diagrams

### UML Use Case Diagram

A diagram of a company

Description automatically generated

### UML Activity Diagrams

Activity Diagram – User Logging In

A diagram of a computer program

Description automatically generated with medium confidence

Activity Diagram – Buying a Package

A diagram of a flowchart

Description automatically generated

### UML Sequence Diagram

A diagram of a login

Description automatically generated

### UML Class Diagram

A diagram of a computer program

Description automatically generated with medium confidence

## Technical Requirements

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| --- | --- |
| **Hardware** | **Host**   * Basic computer setups that include a monitor, tower, keyboard, and mouse. * Capable power supplies that can support the machines. * A physical server instead of a hosted server. * Stable internet connection.   **Client**   * A computer of some kind, for example a laptop, desktop, or mobile phone. * Wireless internet or wired internet. * Capable power supplies to support their devices. * Internet connection. |
| **Software** | **Host**   * DriverPass software * Security measures to protect the software from attackers. * Web browser such as Chrome, Microsoft Edge, etc. * Windows operating system.   **Client**   * Web browser such as Chrome, Microsoft Edge, etc. * Operating system such as Windows, Mac, Linux, etc. * Security measures to protect their information. |
| **Tools** | * Development applications such as Visual Studie, Eclipse, etc. * High speed internet for fast uploads and downloads. * Security monitoring to keep an eye out for suspicious activity. |
| **Infrastructure** | * Safe and adequate cars for teaching students * Insurance to cover the cars. * Diverse card payment method acceptance, like PayPal. * A strong server and large cloud storage. * High power supply. * Fast internet. |