# CS 255 System Design Project Two

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## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Chart, box and whisker chart

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The technical requirements needed in terms of hardware would be dependent on the role of everyone. The Administrators, Students, and Teachers would most likely just need a laptop with direct internet access to conduct their specified role whereas the IT individuals would benefit more utilizing a desktop and set location as well as probably adding multiple screens for them to have more real estate to work off. The entire platform should operate off a cloud-based environment for the enhanced security and the ability to scale at any moment’s notice depending on the traffic of users on it. Utilizing cloud allows DrivePass to pay for only what they need and not have to make huge upgrades in terms of purchasing physical server stacks. Azure would be my primary recommendation due to them being the most popular and effective choice in negating offensive cyber actors trying to infiltrate a system to cause harm. Software needed would be an online platform maybe using WordPress or some web hosting service to develop the front-end aspect of DriverPass. The tools necessary to use would include Microsoft Office for everyone involved. The IT department could utilize Visual Studio as it contains tools SQL among a multitude of other things to properly update and manage the server side of things for DriverPass. All of this as I said before should be stored in the Azure infrastructure, doing this negates the need to have cyber support as it is included in the purchase of Azure.