# CS 255 Business Requirements Document

## System Components and Design

### Purpose

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

The purpose of this project is to design and implement a comprehensive system for DriverPass, a company aiming to address the need for better driver training. The client, Liam, envisions a system that allows users to access online classes, practice tests, and on-the-road training for better preparation for driving tests at local DMVs.

### System Background

*What does DriverPass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

DriverPass aims to address the inadequacy in driver training, specifically the high failure rates in driving tests at local DMVs. The existing system for preparing students for these tests is perceived as insufficient. DriverPass aims to fill the void in the market by becoming a go-to platform for effective driver training. The vision includes creating a user-friendly system that not only improves the success rates of driving tests but also enhances the overall quality of driver education. The company's vision extends beyond just passing driving tests; it includes fostering safe and skilled drivers. By combining online learning, practice sessions, and on-the-road training, DriverPass seeks to revolutionize the way individuals prepare for and approach driving tests at DMVs. DriverPass envisions a comprehensive solution that involves:

* Providing online classes and practice tests to enhance theoretical knowledge.
* Offering on-the-road training sessions for practical driving skills.
* Building a system that allows easy access to data from anywhere, online as well as offline.

### Objectives and Goals

*What should this system be able to do when it is completed? What measurable tasks need to be included in the system design to achieve this?*

Develop a user-friendly interface for online classes, practice tests, and scheduling.

* Implement a secure authentication system with role-based access control.
* Track and log user activities for auditing purposes.
* Integrate with DMV to stay updated on rules, policies, and sample questions.
* Provide a comprehensive dashboard for users to view test progress, driving session details, and driver notes.
* Design a flexible system architecture to accommodate future feature additions.
* Ensure data integrity and prevent data redundancy.

## Requirements

### Nonfunctional Requirements

*In this section, you will detail the different nonfunctional requirements for the DriverPass system. You will need to think about the different things that the system needs to function properly.*

#### Performance Requirements

*What environments (web-based, application, etc.) does this system need to run in? How fast should the system run? How often should the system be updated?*

* [Insert text]

#### Platform Constraints

*What platforms (Windows, Unix, etc.) should the system run on? Does the back end require any tools, such as a database, to support this application?*

* [Insert text]

#### Accuracy and Precision

*How will you distinguish between different users?* *Is the input case-sensitive? When should the system inform the admin of a problem?*

* [Insert text]

#### Adaptability

*Can you make changes to the user (add/remove/modify) without changing code? How will the system adapt to platform updates? What type of access does the IT admin need?*

* [Insert text]

#### Security

*What is required for the user to log in? How can you secure the connection or the data exchange between the client and the server? What should happen to the account if there is a “brute force” hacking attempt? What happens if the user forgets their password?*

* [Insert text]

### Functional Requirements

*Using the information from the scenario, think about the different functions the system needs to provide. Each of your bullets should start with “The system shall . . .” For example, one functional requirement might be, “The system shall validate user credentials when logging in.”*

* [Insert text]

### User Interface

*What are the needs of the interface? Who are the different users for this interface? What will each user need to be able to do through the interface? How will the user interact with the interface (mobile, browser, etc.)?*

* [Insert text]

### Assumptions

*What things were not specifically addressed in your design above? What assumptions are you making in your design about the users or the technology they have?*

* [Insert text]

### Limitations

*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* [Insert text]

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucidchart. Be sure to check that it meets the plan described by the characters in the interview.*

[Insert chart]