# CS 255 Business Requirements Document

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## 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 client is a person named Liam who is the owner of DriverPass.
* Liam is hoping to take advantage of a void in the market when it comes to training students for their driving test.
* Many students are failing their driving tests at the DMV, so Liam wants to provide training that will help them pass the test.
* There should be online classes and practice tests available.
* On-the-road training should also be available as an extra option.
* A system should be built that can handle all these desires.
* The final proposed solution is a web program that has 3 different training packages that can be chosen by the student. This web program should be accessible from anywhere. There are training videos and courses available, and statistics to be viewed.

### 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?*

* They want the service to be able to offer different packages that have different amounts of time students can learn and different perks.
* The problem that needs to be fixed is the high rate of student failures during their driving tests.
* Some components to make this solution work are hardware and software requirements like:
  + A web host to host their product, or an on-site host.
  + Security measures to protect data and a varying permission access system.
  + Computers will be needed on site that can access and maintain the website.
  + More specifically, depending on the needs of the application certain calibers of hardware may be required.
    - Memory
    - CPU
    - Storage, etc.

### 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?*

* Once completed the product should be able to track various statistics.
* It should be able to run differently depending on the package the student chooses.
* A drawing provided by the owner gave an idea as to what it should look like. The drawing included a few things like:
  + Online test progress.
  + Information (first name, last name, address, city, state, etc).
  + Special needs.
  + Driver notes.
  + Drive & Student Photo.
* The online test progress needs to show the tests the customer took and how they did. It should have a few categories like test name, time taken, score, and status (in progress or complete).

## 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]