# CS 255 Business Requirements Document Template

## 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?*

* Training people to drive
* Make the roads safer
* Updated training and policies
* Works with the DMV for any future changes

This project's purpose is to help future drivers study for pass their driving tests. The client is Liam the owner of DriverPass and they want us to support them in creating a website that will give students an opportunity to prepare for their exams with course content for completion of drivers tests. The system also should be able to work offline.

### 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 wants the system to have the ability to take online tests
* Study material for road test
* Accessible from anywhere online
* Make reservation by phone call or online includes time and date for test
* The ability to identify the driver and the customer

### 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?*

* System needs to be user friendly
* Downloadable content for offline use
* Updates with appointments and cancelled ones
* Notify the driver and the customer
* Ability to be used on cloud
* Show progress to completion of course
* Students be able to input information

## 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?*

* The system should be on the web like a website in a cloud
* The system should run smooth with little to no problems for users
* The system should be updated anytime the client have new features or ideas

#### 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?*

* The Platform Linux should be used because the high security it provides and great for web servers

#### The back end will be on the cloud which is managing the securities

#### 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?*

* Each user will have the ability to create an account, with there on username and password
* The login will be case sensitive
* The system will inform the admin of problems if glitches, bugs, or multiple failed attempts to login to account

#### 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?*

* The system will allow the removal of users without changing the code
* The platform will integrate updates
* IT admin will have access to account information just in case users forget password or need help setting up account

#### 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?*

* A username and password will be required to access an account
* The system will lock the account and the user will have to reach out to IT admin to get new password and answer security questions
* The user will have the ability to request a new password by entering email link to account or answer security questions
* If user can’t reset from these two options will have to call and talk to a support representative

### 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.”*

* The system shall provide study material, and practice test
* The system shall let user book appointment
* The system shall run fast and smooth
* The system shall show progress of test and work completed

### 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.)?*

* The interface will be user friendly, giving them the ability to set appointments, and see course material
* The users are employees, drivers, and IT admin
* The user will be able to use the interface on mobile phone, PC, laptop, or any device with internet compatibility

### 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?*

* Something that wasn’t address were the material being used to teach drivers the rules and safety of the road.

### 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?*

* Some early problems will be not being fully functional for smartphones. Since it is being created for desktop computers. Overtime Driverpass will work with us to expand to mobile devices.

### 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.*