# CS 255 Business Requirements Document Template

Complete this template by replacing the bracketed text with the relevant information.

This template lays out all the different sections that you need to complete for Project One. Each section has guiding questions to prompt your thinking. These questions are meant to guide your initial responses to each area. You are encouraged to go beyond these questions using what you have learned in your readings. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead, the goal is to complete each section based on your client’s needs.

**Tip:** You should respond in a bulleted list for each section. This will make your thoughts easier to reference when you move into the design phase for Project Two. One starter bullet has been provided for you in each section, but you will need to add more.

## 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 DriverPass.
* They would like to provide the driving students with an online platform with multiple forms of education
  + Practice tests
  + Online driving lessons
  + Schedule on-the-road driving sessions.

### 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?*

Currently driver pass does not have an online system to schedule and provide content to the students.

* Need to develop an online platform.
* Needs to provide the students with a portal to schedule their driving lessons
* Needs to provide the students with a portal for educational content
* Needs to provide students with up-to-date practice test
* Needs different portals for Liam, the IT officer, and the secretary
* System must be manageable and updateable

### 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?*

* Allow user to make account
* Allow users to schedule driving tests
* Allow users to take online practice tests
* Allow users to track their online progress
* Allow users view online informational content
* Allow specific user roles different abilities through different portals

## 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?*

* Needs to be web based.
* The system should be sufficiently fast to enough to make instant updates to schedules.
* The system should be updated every time there are changes to the business requirements or when security needs call for it.

#### 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 system will require a database
* The system will need to run on most common web browsers (Chrome, Safari, Firefox).

#### 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?*

* Using different usernames or emails as usernames we can distinguish between the users.
* The usernames and passwords will be case sensitive.
* The system should inform the admin any time there is a problem, immediately.

#### 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?*

* There will be 4 different portals,
  + one for Liam, that allows him access to any of the other portals, and additional access to a page to terminate and or add other people in the other roles, and he will be able to reset accounts incase someone forgets their password.
  + The IT administrator will have his own portal that allows him to edit customers information such as package plan and remove students.
  + The Secretary will have access to update schedule times and update information for the students.
  + The students will have their own portal that allows them to Schedule driving sessions and view educational content and take practice tests.

#### 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?*

* The system will need to have an encrypted connection and follow the different federal regulations about user data.

### 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 have a role based access control system with a username and password system to determine who the user is.
* The System shall provide each user with their own portal dependent on their access.
* The student role shall have access to student materials such as scheduling driving sessions and educational content.
* Liam will have his own portal that also allows him to revoke and approve access to other associates.
* The IT administrator will need his own portal to be able to manually update user data such as scheduling.
* The secretary will have their own portal to allow for scheduling.

### 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.)?*

* There are 4 different roles
  + Student
  + Secretary
  + IT admin
  + Liam
* Each role will have their own interface allowing them different abilities.
* Each user will login via web app portal.

### 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?*

* All users will have access to the internet in order to access the platform.

### 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?*

* Inaccessibility due to power and maintenance.
* Data size will be capped by physical storage.

### 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.*

