# 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?*

* Purpose of the project is to help DriverPass create a functioning system through a website for students to take online exams for practicing purpose, and to schedule any in person on the road training/practice. They decided to garner help creating this system after they realized there was a need with very few current tools and training availabilities for current drivers who are ready to practice and take their driving test.

### 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 would like the system to help instill confidence and knowledge on current drivers who are struggling to pass their driving test.
* Main functions they are looking for is engaging with online practice exams, classes, and being able to schedule actual on the road driving time.
* They want this system to be able to be accessible on any platform that has available wifi connectivity.
* Since the website will have personal information, it will need basic security features and functions for logging in, keeping information safe, keeping record of all practice exam scores, all scheduling commitments for road practice, including showing previous sessions, modified sessions and cancelled sessions.
* DriverPass had also brought up having different packages to purchase for training information and practical exams.

### 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?*

* This should be a fully functional website with a log in, saved information, ability to schedule on road training, modify scheduling, add scheduling to phone calendar, and cancel scheduled sessions. Customer should also be ablet o take practice test and join classes
* The main system should be able to be accessed by employees to make changes but security features in place so you can assign which employees are allotted to make changes and which ones will need to request making changes.

## 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?*

* They want the system to be a website based that can connect on any device with wifi which means it will need to run over cloud to store information and talk back to the main system.
* The system will also have to be able to push out updates or feature edits that the main system in this case DriverPass’s system that they deem fit for the system.

#### 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?*

* Linux is the preferred system to run
* Since we are thinking cloud based that will be where security is managed and databases required on the back end.

#### 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?*

* Since there will be hundreds of users there will be individual usernames and passwords for every profile. If wanted to website can also have multiple security features to ensure each user is who they say they are.
* The system will have an automatice back end function that will immediately notify the main system when there are any force exits, force shutdowns, errors in billing, customer complaints sent in via email or chat, or glitches and any malicious activity.

#### 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?*

* Yes you will be able to make changes as an admin without changing the code.
* The system will notify the admins of updates to the system and new features but this will be up to DriverPass on when they want to implement and send out updates.
* DriverPass will be able to implement and assign certain users who will be able to remove other admins who are no longer employees.

#### 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?*

* Log in will require a unique username and password to gain access and two factor authentification if DriverPass prefers it.
* Since it will be cloud based the cloud will talk back and forth to ensure security.
* DriverPass can assign a failed attempt of logins that will require a reset of password sent to the usernames email on file. Or the account can be locked and they will have to verify identity in another fashion to unlock the account.

### 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 schedule and modify road training made by either user or admin
* The system shall validate credentials when user logs into the portal
* The system shall have practice tests and classes available for users
* The system shall send a confirmation of scheduling road training along with a bio and picture of who they will be working with
* The system shall offer the three packages preferred by DriverPass
* The system shall have a backend login for admins that can make changes and implement upgrades and feature additions to the system.

### 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 need to have the ability to schedule road practice, classes, and practice exams and assorted packages.
* The interface will need to be able to allow admins to go in and make changes, delete employees, implement upgrades and features.
* The interface will need to be able to be accessed from any device that has wifi capability

### 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?*

* DriverPass did not give a budget of any sort so we have to assume by their needs that all of this falls into their budget plan including the cloud, linux, security features etc.
* We also assume they will have all of this technology on hand so we can work on building this sytem for them

### 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?*

* DriverPass gave us a time frame of 5 months to complete this system build.
* We have an unknown budget so are unsure how many times we will need to rebuild to fit the budget once we gather that intel
* We don’t have a large build team, we will need to maximize our numbers in order to have this system built in the 5 month timeframe we were given as the main constraint.

### 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]

