# 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?*

* This project is for our client DriverPass, a company that prepares people for a driver’s license test. The purpose of this project is to create a web platform that allows customers to purchase training, schedule lessons and take practice tests.

### 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?*

* The client has hired us to build a system that allows customers to purchase training, schedule lessons and take practice tests.
* The system will help more people be prepared for their driver’s license tests.
* The system will consist of a cloud-hosted web service.

### 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?*

* The system will provide the customer with the following functions:
  + Make a lesson reservation
  + Edit or cancel a reservation
  + Purchase a training package
  + Take a practice test
  + Reset Password
* The system will provide DriverPass with the following functions:
  + Download reports of lessons
  + Enable/disable training packages
  + Reset Password
  + Make a reservation
  + Edit or Cancel a reservation
  + Update DMV requirements

## 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 will be web based and cloud hosted.
* The system should be updated every time DMV requirements change or when DriverPass would like to introduce new training packages.
* The system should run at a comparable speed to other modern web pages.

#### 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 should run on all common desktop and mobile web browsers.
* The system will need a database for user profiles and appointments

#### 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 a username and password.
* DriverPass administrators will be able to modify appointments of other users and view reports

#### 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 should be able to register or remove users without changing code.
* The system should function independent of browser updates.
* The IT officer will need administrator access to remove or modify user accounts.

#### 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 for each user to log in.
* After five failed log-in attempts the user account should lock.
* If the user forgets their password there should be a forgot password function
* Administrators should be able to reset user passwords.

### 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 validate username and password when logging in.
* The system shall give the customer the following options: Make reservation, Edit reservation, Cancel reservation, Buy training package, Take practice test
* The system shall email a receipt for training purchases.
* The system shall send a confirmation email for scheduled or rescheduled appointments.
* The system shall generate a report showing scheduled and canceled appointments with who scheduled/canceled the appointment.

### 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 site directs to a log in screen
* Once logged in the site redirects to a user dashboard displaying test progress, user information, driver notes, driver photo and student photo.
* The dashboard should have links to the functions available to that user.
* The user will access the site through a web browser.

### 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?*

* The design assumes that the cloud host can handle more simultaneous users than DriverPass will have.
* All users have internet access.
* All users provide a valid email address.

### 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?*

* Reports can be downloaded for offline use but may become out of date without internet connectivity.
* New training packages cannot be added by an administrator.
* The system will not function if the cloud service is lost.
* The system cannot be accessed without an internet connection.

### 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.*

