# 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 purpose of this project is to develop and app for DriverPass that allows them to train people to pass the drivers exams at the DMV. They want their system to be able to take classes online, practice tests, and schedule on the road training as well.

### 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 system to be able to offer classes online, practice tests and schedule on the road training. This fixes the current problem that over 65% of applicants fail the DMV tests. The different components are security, mobile data, ability to schedule appointments (and reschedule), ability to choose between packages and the ability to disable a package if needed.

### 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 should be able to take appointments, schedule and deploy classes, maintain data and be secure about the whole thing.
* Collect requirements
* Create use diagrams
* Build activity diagrams for each use case
* Research user interface designs
* Build class diagrams
* Get customer approval
* Build interface
* Link db to interface
* Build business logic
* Test system
* Deliver system
* Sign off

## 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?*

* This system needs both web based and mobile application-based environments to run in. The system should be fast. The system should update by the minute.

**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 platforms should be windows, android, and iOS. The backend requires a database and a management system so the data can be accessed from anywhere.

#### 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?*

* We will distinguish between different users with a traditional username/password system that is case sensitive, and the system should inform the admin of a problem when the system goes down, someone tries to hack the system or when there is a problem with the database.

#### 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, the user can add/remove/modify their account without changing the code base. The system will get platform updates from the server on a daily basis. The admin needs admin access to everything on the system including the database.

#### 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 user needs a username and password to login provided by creating a user account which verifies email addresses. Secure the data exchange between client and server with and SSL layer and using https. In the event of a ‘brute force’ hacking attempt the server and client should use a firewall and the system should go down for repair if the system gets hacked. If the user forgets their password, they have to click a link that sends a reset email to their email 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 validate user credentials when logging in
* The system shall ask the user for their desired package
* The system shall take the users payment by credit card
* The system shall schedule dates for the online courses and on the road training
* The system shall take modifications to these things if needed

### 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 needs of the interface are a login page and a main page with selection of packages and payment info, next a page where you can schedule your appointments for classes and on the road training. The different users for this interface are the user/client and the administrators, developers and management. The Interaction with the interface should be web based and app based.

### 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’s not addressed in the design above is the need for dual login systems one for users and one for admins, in this I assume that the users are using windows, android or iOS systems and not Linux or others.

### 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?*

* The limitations in this system are that there is no way to build a mobile app as well with the time allotted.

### 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.*

Graphical user interface, table

Description automatically generated

A picture containing chart

Description automatically generated

Table

Description automatically generated with medium confidence