# 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
* to help train students with driving
* Help make the roads safer
* Update rules, policies or sample questions
* Access offline and online

### 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?*

* Have on the road tests
* Access the system anywhere online or offline
* Track reservations, cancellations or modifications
* Print activity reports

### 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?*

* Be able to have a downloaded version of the information
* Have a website containing practice tests, notes, information, accommodations etc.
* Show progress of classes
* Adjust 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?*

* Any browser
* iOS devices
* Android devices
* The system should be updated daily
* The system should be fast so the updates aren’t delayed

#### 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 be able to run on any platform
* The backend requires a database to hold:
  + Driver information
  + Teacher information
  + Class information
  + Reservations

#### 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?*

* Have login credentials and a unique ID
* Passwords are case sensitive
* Inform admin after 3 failed login attempts

#### 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?*

* Have add/update/remove methods for admin
* Run tests before updates to make sure that there aren’t any errors
* Backup program once weekly
* Admin should have access to everything, database and source code

#### 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?*

* UserID, email, password
* The information will be encrypted so any information would have to be hashed
* If there is brute force attack, the admin will be notified and have access to block all login attempts

### 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 verify login information
* The system shall update information when changed
* The system shall download latest DMV policies
* The system shall allow user to change password or email
* The system shall list classes and tests
* The system shall show class and test progress

### 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 should have:
  + Logo
  + Online test progress
  + Information (name, address, phone number, email)
  + Notes
  + Special needs
  + Photo of drivers license and student photo
* For web-based users, will use input from the mouse and keyboard
* For android and iOS users, will use input from touch
* Both web-based and mobile users will have application fit to screen and adjusted if needed

### 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?*

* How many users will be on the app
* How many admins will there be
* Will this need to be expandable
* Assume that user is experienced with technology

### 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?*

* Limitations for mobile users:
  + Viewing the course content
  + Saving files or uploading files
  + Viewing videos and taking tests
* For computer users
  + Have enough ram
  + Stable 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.*

[Insert chart]