# 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 build a mobile system that will help students learn to pass the Drivers test
* The client DriverPass which is owned by Liam.
* DriverPass wants to help students to train for their driving test
* Available on mobile

### 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?*

* Help students pass the driving test
* Provide online classes
* Provide practice test
* Available online 24/7 on and offline
* Redundancy built in
* Help stop students’ failure rate at driving test
* Make driving test familiar
* Have multiple servers
* Web based
* Mobile based
* Storage
* Mobile or tablet access
* Provider reports that save to PDF or Excel

### 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?*

* Provide certificates for completion
* Provide practice test

## 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?*

* Mobile applications for different phone Operating Systems
* Java base, to allow multiple OSes to reuse same code (cost savings) (Portability)
* Speed needs to be optimal, or user will leave
* Update when ever the DMV updates its information

#### 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?*

* Mobile platforms: IOS (Apple MacIntosh), Linux (Android base), WebOS (HP Operating System), windows (Microsoft OS)
* Database is needed for storage of user information, DMV questions, User access information, web site information
* Storage to hold data, graphics, web site data and sound
* Backend is needed for controlling applications, business logic for your applications

#### 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?*

* Creating User information, which allows access with password.
* Input should be case sensitive to allow for creation of good passwords and unique usernames
* System should inform the admin of problems by what the Admin sets up, it could be daily or only when a system crashes

#### 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?*

* Admin should have God mode, to add, remove and modify when needed without interrupting the system flow
* System should take updates and perform update when the admin notices user use is low, to allow for non-interruption
* DriverPass Admin should have full system access. System should log all use and logins for problem prevention

#### 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?*

* Web site and mobile security backed by a back-end database to check login
* Use encryption for login (slows down transfer), and settings change (check if user is valid)
* If brute force or three or more logins attempts, lock user out till they contact the admin
* As stated above three or more login attempts, only admin can allow access to 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 allow for user authentication*
* *The system shall allow authorization admin levels*
* *The system shall record admin logins and historical use data*
* *The system shall allow for built in Algorithms use*
* *The system shall allow for built in Database use*
* *The system shall allow for backup and recovery*

### 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.)?*

* Allow for user interface templates (for user comfortability switching)
* Different users of the system are customer (user) or Admin (regional user)
* Customers can change design template and interact with PassGallery
* Admin will be able to change design features and edit all design aspects (once validated)

### 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?*

* Cost for having multiple design templates
* That every user will find our system design simple and easy
* Assuming they user has the latest mobile phone and operating system

### 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?*

* Limited space on screen to fit all the information
* Limited storage space on mobile device
* Limited memory, causing crashes or non-responsive applications
* Errors in database access, cause wrong information to show, or wrong graphics

### 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.*



