# CS 255 Business Requirements Document Template

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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?*

* DriverPass is the client and they want to take advantage of an opening they see in the market concerning driver’s tests and student training. Finally, Liam(Head of DriverPass) wants to access his data from other devices remotely, download reports and other items that he can then work on at home in MS Excel. A general security solution, including a user account and password structure. Administrator functions to manage user and employee accounts, Track changes to important information and who made them, these are enumerated in a list that can be printed out. Reservations for taking driving lessons. A driver roster to track who and what car are assigned to which client. IT back doors, for troubleshooting and framework for accessing test packages.

### 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?*

* This system is meant to provide users with access to tests and resources for connecting with drivers and getting the road tests done as well as the written test. Also, special access for IT and an administrator to perform their responsibilities.
* DriverPass believe that there is a hole in the support for people preparing to take the written and driving tests when applying for a driver’s license.
* A device with a screen capable of connecting to the internet for the end-user, for DriverPass, a server network capable of supporting a moderate amount of information; user accounts, test packages, and the overhead of DriverPass staff information.

### 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?*

* People can sign up, create user accounts, take various tests, arrange transportation to the Driver’s license office. This system should be able to be maintained by DriverPass’s internal IT staff, the entire system can be overseen by a DriverPass administrator.
* IT access and administration’s high-level access to all functions that they need.

## 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?*

* Netflix has a PC application, I imagine most end up using a web page though, even so, since the mobile version is an app, why not have that be a port of the PC application.
* This will be a lightweight program for any modern computer, being mostly text and still images. It’s mobile version will be a streaming app, but it’s content is equivalent to the desktop version.
* Other than content updates at DriverPass’s discretion, it’s more essential features, like resolution options, will be ‘built in’.

#### 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?*

* Windows with a Mac version to follow on desktops, and Google and Apple stores for mobile.
* There would be a small one, but yes, all the user information, employee information and the test packages could be stored internally that way.

#### 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?*

* User names(and passwords), for added security, yes the passwords can be case-sensitive, the opposite is true for user names.
* When someone reports an error, or additionally, when the internal log flags an issue the system would then report an error to an administrator.

#### 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?*

* Since user names and passwords are stored as string variables, yes, they are not hard coded in obviously.
* Updating should be a largely seamless process handled internally by their IT dept once the system is built, as it was designed to be adaptable on top of it’s core framework.
* The administrator’s access provides clearance to access and/or create employee profiles, adjust reservations, manage available test packages and the ability to view system logs.

#### 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 user name and password
* Encryption through an external service like Windows Azure
* If an account is believed to be attempting an attack it is deleted and reported to the police where possible.
* A user is given 3 attempts to login before being considered a failure, at which point they will be informed to change their password.

### 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 upon attempting a login
* The system shall present the user with a curated User desktop or UI displaying relevant account information.
* The system shall Direct the user to their chosen DriverPass destination from there.
* The system shall upon encountering an error, the system will flag that report and contact the administrator.
* The system shall be capable of taking reservations for users looking to schedule a written or road test.
* The system shall assign an available driver to the reservation.

### 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 UI needs to inform the user of their current status within DriverPass and what would be next in their current program, if applicable.
* End-users, IT and an administrator for troubleshooting
* Run the program as an average user should be able to expect to
* An end user can expect to access DriverPass from an app on their phone, a browser or an app on PC.

### 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?*

* Ideal file size, system requirements
* We assume that no users will be attempting to use this software or application with lower than the required negligible system specs.

### 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?*

* A human is needed to address any errors that are reported, there is currently no way to make purchases from within the program, so that will have to be implemented if they ever plan to expand their customer base to other regions.
* The DriverPass app will be simple to develop and implement

### 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]