# 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?*

* Client: DriverPass
* The client wants to create an online learning management system to allow users to train for their drivers’ test. This system should allow users to create their own learning plan. This should also allow users to receive feedback or updates if plans were to change.

### 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 system is to allow an easier way to learn how to pass the drivers test. The system will allow physical or virtual training so they can pass the drivers test. The system will connect directly to the DMV and generating market intelligence while also being available online or offline.

### 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 goal is to help users to become proficient enough to pass the test at the DMV. The system will also allow DriverPass to better understand their business by generating marketing intelligence.
* To achieve these goals they will need this:
* Driverpass Breakdown:
* Entitlement service which is used to administrate user role.
* Report manager which is used to deliver offline and online analysis.
* Asset management so they can assign users to instructors and instructors to cars
* Subscription management which is used for any policy changes
* Lesson management used for administrating packages or canceling
* Driver feedback to communicate to user
* Proxy service to enroll some users to a proxy
* Admin portal used for administration task
* Dashboard used to view any key performance indicators
* User breakdown:
* Account management
* Training reservation
* Testing service
* Lesson delivery
* Dashboard used to view 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?*

* System should be web based with chrome
* PWA should be implemented
* Underlying system should scale with user base
* Key performance indicators should be generated no later than 24 hours
* Scheduling sub-system should be close to real time so there is less likely to have double booking

#### 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 compatible with chrome as main platform
* Mobile friendly android and apple as secondary
* System based on linux backend
* System will employ REST for microservices

#### 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?*

* The system will enforce case sensitivity on passwords only
* The system will have a monitor to inform the admin if the system goes offline

#### 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 will based on extensible platform
* The system will allow user and their roles to be created on the platform
* The system will call for periodic updates with minimal downtime

#### 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?*

* System will employ account control via roles
* User will be required to register an email as username

### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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?*

* [Insert text]

### 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]