# CS 255 Business Requirements Document

**Matthew Biletnikoff**

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 design a system for **DriverPass**, a company that aims to improve driver training and preparation for DMV tests.
* DriverPass wants a system that allows students to access online practice exams, take online classes, and schedule on-the-road driving lessons.
* The system should enable DriverPass staff to manage appointments, track activity, handle user accounts, and generate reports.
* The system must be accessible from any device through a web-based interface and support both customers and staff roles securely.

### 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?*

 DriverPass wants to address the problem of high failure rates in DMV driving tests by offering better preparation through online resources and on-the-road lessons.

 The solution they want to provide includes:

* Online practice exams and instructional material.
* Driving lesson scheduling with tracking of drivers, cars, and lesson times.
* Flexible packages that include various combinations of driving hours, in-person lessons, and online coursework.
* Integration with DMV updates to stay current on policies and sample questions.
* Cloud-based hosting to minimize technical management and ensure security and backups.

### 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 shall allow students to create accounts, log in, and manage their own appointments.
* The system shall allow staff (secretary) to enter student information and book lessons by phone or in-person requests.
* The system shall let customers schedule, modify, or cancel appointments online.
* The system shall enable tracking of reservations, including who made, modified, or canceled them.
* The system shall produce activity reports showing user actions for accountability.
* The system shall manage user roles and permissions for staff and IT administration.
* The system shall support downloading reports and data for offline work (e.g., in Excel).
* The system shall integrate with DMV systems to receive updates on rules and test materials.
* The system shall run securely over the cloud with minimal need for in-house technical support.
* The system shall allow the business to enable or disable training packages as needed.

## 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

### 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]