# 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?*

### DriverPass wants a system to help people pass their driving tests. They need something that lets students take online practice exams and also schedule in person driving lessons. It should be simple to use and work for both students and instructors without being complicated.

### 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?

Right now, a lot of students are failing their driving tests because all they do is memorize old questions. DriverPass wants to fix that by offering real prep and actual behind the wheel practice. The system should help students learn and feel more confident before they take their test.

### 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 should let students take practice tests and see how they did. They should also be able to book, cancel, or reschedule lessons easily. Instructors need to be able to manage their schedules and see how their students are doing. Admins should be able to handle accounts, payments, and anything else related to the system.

## 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?*

The system should work on both phones and computers. It shouldn’t be slow, and pages need to load quickly. It should be available 24/7, or at least most of the time.

#### 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 work on Windows, Mac, Android, and iPhones. It needs a database to save user info, lesson bookings, and test results.

#### 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?*

Each person should have their own login, probably using an email. Passwords should be case-sensitive. If someone keeps trying and failing to log in, the admin should be notified.

#### 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?*

Admins should be able to change users and fix things without needing to code anything. The system should still work if browsers or phones get updated. IT staff should have full access to fix bugs or do maintenance.

#### 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?*

Users will need a password to log in. All info needs to be protected, probably using encryption. If someone keeps trying to break into an account, it should get locked. There also needs to be a password reset option.

### 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 should let students create accounts, log in, take practice exams, book or cancel lessons, and track their progress. Instructors should be able to update their availability and check student progress. Admins need to manage accounts, track payments, and keep everything working. It should also allow safe online payments.

### 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.)?*

Students need to be able to sign up, log in, book lessons, take practice tests, and view their results. Instructors should be able to manage their schedules and see info about students. Admins need access to all the system settings, users, and payment tools. The interface should work on browsers and phones, and it should be easy to use without a lot of extra steps.

### 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?*

I’m assuming that everyone using the system has internet and a phone or computer. Most students should know how to log in and use a basic website. Instructors and admins are either already trained or will be shown how it works.

### 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?*

There’s probably a limited budget, so not everything can be included right away. Some students might not have the best wifi or latest phones. Things might not run perfectly at first. Also, the company might not have someone available to give tech support 24/7.

### 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.*

