# 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
* This project is to build a web based application allowing DriverPass the ability to train student drivers in a modern fashion.
* This allows DriverPass to reach a larger audience and offer higher quality training than is currently available.

### 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 application will have online classes as well as allowing for students to schedule in person training. This gives students access to improved driving training in order to help students pass their DMV driving test.
* Online accessibility with downloadable reports for offline use.
* Security – user authorization with different levels of accessibility, such as, customer, employee, and admin.
* Security – password reset/retrieval
* Driving reservations
* Packages for user to choose from.
* Notifications for any changes to user’s reservations.
* Ability for admin to disable individual packages.
* Notifications of changes made by the DMV.
* Interface- should include test progress, user information, drivers notes, special needs, driver and student photo.
* Interface- will have numerous pages for student/secretary to fill in student info, contact us page, and contact student page.
* Potential future updates should be kept in mind so system should be designed with scalability in mind.

### 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?*

* User authentication – Should include different access levels such as:
  + Student – allows access to student portal, classes, reservations, and user info.
  + Drivers – allows for drivers to confirm appointments, access students information relevant to reservation such as address and name.
  + Secretary – allows for secretary to update/fill in student information for enrollment, update/fill in/add new driver information, notifications for any changes to student and driver information and scheduling.
  + IT – allows for maintenance of system
  + Admin/owner – full access to all student and driver information (non sensitive), notifications for any changes, ability to suspend active packages, edit pricing, check driver notes.
  + Automated password reset.
* Upload current and new classes offered
* Three different packages for users to choose from.
* Reservation system – allows for student to choose a date and time (should show available time slots) this should also notify driver. Notifications to driver/student for changes to reservations.
* Needs to allows for contents to be downloaded for offline usage.
* User Interface – the app will need multiple pages to be built:
  + Student portal – this should have numerous sections for student information, active classes/test progress, Driver/instructor notes, special needs, student picture, and driver picture.
  + Driver/instructor – should include lesson date/time, start/end date, and Driver/instructor notes. Schedule for instructors to view appointments. Ability to confirm/cancel reservation.
  + Sign up – page dedicated for new student to sign up for services themselves or through secretary. Page should collect student information such as name, address, contact information, username/password creating (checks username availability), and package selection.
  + Contact us – page with DriverPass contact information with built in message feature so student can contact through app.
  + Contact student – this page should allow for DriverPass employees to message students.

## 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]