# 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?*

* Provide online training for customers learning to drive
* Give more overall convenience and flexibility to customers
* Allow for students to track their progress and other info in one place via a user account

### 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?*

* Access their data from anywhere online and offline (downloadable)
* Updates/alerts them when DMV changes rules or policies
* User registration via phone call only
* Runs on the web using the cloud
* Use provided sketch for user interface design
* Ability to print activity reports about the system
* Role based access to student’s accounts for assistance purposes

### 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?*

* Ability to take online classes and practice tests
* Ability to make driver lesson reservations online (date/time specific, 2-hour windows, id the driver with the customer, and pickup location)
* Ability to choose one of three packages (with ability to disable discontinued packages)
* Ability to reset password automatically

## 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?*

* Online web-based environment
* Light weight and mobile friendly performance
* Updates should happen with DMV rule/policy changes

#### 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?*

* Ability to run on all platforms Desktop and Mobile
* Backend should use cloud-based solution

#### 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?*

* Users will have their own accounts
* Input for login credentials will be case sensitive
* Admin should be alerted in the case of an outage or changes in records

#### 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?*

* Role based access to user accounts (non-code)
* System should maintain usability with platform updates
* IT admin needs full access for user support

#### 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?*

* User needs username and password to log in
* Web based secure HTTPS connection for client and server
* Account locked after several failed attempts
* Automated password reset ability through email

### 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 administer online tests and classes
* The system shall validate user credentials while logging in
* The system shall alert the admin of DMV rule or policy changes
* The system shall allow only the admin to create new accounts

### 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.)?*

* User friendly and simple interface
* Cross platform consistent design
* Touch and mouse browser friendly controls
* Language localization

### 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?*

* Out of date or low performance devices in use
* Should work with most web browsers
* Current system assumes no mobile app yet

### 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?*

* Requires internet connection
* Potential problems with reliance on third party backend/cloud services

### 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.*

