# 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?*

* The client is a company called DriverPass. They provide training to student drivers to help them pass driving tests.
* DriverPass wants to create a system that provides resources to student drivers to help them pass their driving tests.
* Customers can choose one of several training packages that provide different resources to help them learn.

### 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 fill a void in the market for student drivers when it comes to training them for the driving test at their local DMV.
* They want to provide a system that their students can use to study and practice for the exams from anywhere and on different types of devices.
* The students will be able to create profiles on the system with their information, register for various training packages, and be able to monitor their progress.
* Customers can use system to create reservations for driving lessons, with preference of time of day. They should be able to do this directly within the system or over the phone or in person at the office. They can also modify or cancel appoints online.

### 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?*

* System must be able to be accessed from anywhere, online and offline.
* Must be accessible on both computers and mobile devices.
* System must have reporting functionality that’s downloadable.
* Must have role-based access controls.
* Must have logging capabilities to understand who did what within the system and at what time.
* Must have tracking capabilities for driver and customer scheduling. Must be able to filter by driver, customer, time, and car.
* Must allow for admin to disable packages for registration as needed.
* For registering for a package, the system will capture the following information from the client: first name, last name, address, phone number, state, and their credit card number, expiration date, security code, and pick up/drop-off location.
* Must provide the ability for password resets.
* Must have integration with DMV to allow for updates to driving requirements, rules, and policies. New updates should trigger notifications to the admin.
* System must be cloud based.
* User dashboard should display online test progress, user information, driver notes, special needs, driver photo, and student photo.
* Driver notes should include lesson time, start and end times, and comments.
* Must have an input form for adding student information.
* Must have a contact us page.

## 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 will update data modified while offline once it comes back online to prevent redundancy
* System will be cloud hosted and be accessible from anywhere and at any time, online and offline
* System will be a web application to allow for multiple types of devices to use it

#### 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?*

* System will be accessible from both computers and mobile devices through any browser
* System will store data in cloud environments to reduce maintenance costs

#### 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?*

* System will have role-based access control and will distinguish the role of a user based on their login information
* System will have roles for administrators, secretaries, and users.
* System will provide automated notifications to administrators when updates and issues occur

#### 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?*

* System will be able to connect to local DMV for updates to new rules, policies, or sample test questions
* System will notify administrators when updates from DMV are made
* Administrator roles should be able to maintain the system and modify it as needed

#### 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 provide the ability for automated password resets
* System will provide logs for tracking any changes made to it
* System will use role-based access control to determine what a user can and cannot do within it

### 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.”*

* This system shall determine the role of users based on their credentials
* The system shall provide the user with three choices of learning packages
* The system shall require student’s first name, last name, address, phone number, state, billing information, and pickup/drop-off locations for registration to packages
* The system shall gather registration information through the use of an input form which will register the student upon submission
* The system shall provide administrators with a button for disabling packages for registration

### 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.)?*

* The web application is displayed through a browser and can be accessed through both computers and mobile devices
* The interface will display the “DriverPass” logo at the top of the screen
* The interface will show online test progress, student information, driver notes, special needs notes, driver photo, and student photo
* The online test progress section will show test names, times tests were taken, scores, and status of tests
* The driver notes will include lesson times, start times, end times, and comments
* There will be a section in the interface providing the user company contact information
* The user will be able to use the interface to make appointments, modify appointments, and cancel appointments

### 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?*

* The interface will have different language options and not be limited to English
* The system can be used on all major browsers
* The system will store data locally when not connected to the internet

### 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?*

* System will not be up to date when not online for extended periods of time
* Course packages can only have a limited number of people registered to them because of scheduling constraints
* New rules, policies, and sample test question updates are dependent on DMV connections. If this connection is broken then updates cannot be made.

### 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.*

