# 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 named Liam and he’s the owner of DriverPass. Liam needs DriverPass to be modernized to be a fully digitized. This includes the need for scheduling, tracking, payments, test prep, etc.
* From the reading: I would be building a single platform that handles the entire pipeline from signing up -> pay -> schedule -> train -> test -> pass.
* This would allow for a more automated modern system, which would increase the customers business/exposure/ and allow more ease of use for Liams customers. (I’m assuming he already is doing this but I’m unsure it says he wants a “new system” but it also talks about “My company will” so its a little unclear.
* This would allow the company to be modern, aligns with his vision to to provide better driver training, and would remove the human bottleneck of needing to call his secretary for customer appointments.
* This would also allow Liam to check on his business data while at home.

### 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?*

* **Problem to fix:** DriverPass has a vision. It was stated that the owner wants a system built that will take advantage of a void in the market. Additionally he wants to provide better driver training because a lot people fail their driving tests at the DMV. So he’s starting the company to provide this type of training the customers to take online classes and practice tests..

**Different components:**

* A system to help the owner access to his data from anywhere, online as well offline.
* Owner needs to access his data online from any computer or mobile device, and to be able to download the reports and information so he can work at home, using Excel. Etc.

**Security:**

* They have have different employees at the company with different rights and roles. So I need to have a competent for the owner to reset passwords if someone forgets their password, or if they let go of someone and they need to be able to block their access.

**Tracking:**

* Need to track reservations, cancelations, and who modified things last. Owner put emphasis on how this all must be “clear in case something goes wrong”.

**Activity Reports**

* Ability to print an activity report and figure out who is responsible if things go wrong.

**Reservation Logic**:

* Each package is a defined number of hours (6, 8, 12).
* Each session is 2 hours.
* Customer can only book what their package allows.
* Package 3 allows access to their online class and practice test.
* Customer can book online, over the phone, or in person.
* The system needs to prevent overbooking a car or driver.
* Secretary needs a way to override/move bookings.
* Students should pick a time -> see available cars/drivers, -> confirm.

**Driver Identification:**

* Need to identify the driver, the customer is scheduled to go with, allow tracking of “many drivers”, and to track which user is matched up with what driver, time, and car.

**Users:**

* Boss Liam, IT officer Ian, Secretary, customers, and drivers.
* The company also said they don’t wanna focus on security, with focus on the business.

**DMV Integration & Updates:**

* The owner of the company doesn’t want old test material.
* Backend interface for him (admin only) incase passwords get lost etc.
* DMV integrating and updates need to include a way to add in newer DMV questions, or to update other content.
* Would be a good idea to include: Get a ping through API, if the DMV pushes updates, (though email or a dashboard alert)
* Interface: System needs to run off the web, over the cloud preferred.
* Company stated: They do not want to deal with backup and security and want it to be taken care of, “there focus is running the business with minimal technical problems."

### UI:

### It should show what’s in progress what the customer completed.

### Example: something like test name, time taken, score, and status.

### Status should say something like: Status could be not taken, in progress, failed, or passed. Etc

### Driver notes, with comments the driver left as well as the times for the lessons.

* Input form where the student or secretary fills in the student information.
* Example: first name, last name, address etc.
* A page for contacting the company, and a way to contact the student.

### 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?*

***#*Since I already went into a lot of this above, i’ll re-state it with the goals task time.**

1. **Student Registration with Package Selection**

* Allows customers register by form we are designing or phone call.
* Needs to get the customer name, address, state, phone, pickup/drop-off, and credit card info etc.
* Allow selection of one of 3 packages (6h, 8h, 12h), with 2-hour sessions at a time.
* Goal: Registration form and logic built by March 24.

**2. Online Appointment Scheduling**

* Customers can schedule sessions through their account.
* Sessions tracked with logs driver name, start/end time, and notes.
* Admin dashboard that allows tracking of which car, which student, which day.
* Goal: This falls under Link DB to Interface 3-Apr.

**3.Online Test and Progress Tracking**

* Display a list of all available practice tests along with the test name, time spent, score, and current status (Not Started, In Progress, Passed, Failed).
* Must have a visual progress indicator to visualize how much of the course the student has completed.
* Goal: Complete implementation of the progress tracking system, including all display and status features, by April 3.

**4. DMV Integration Panel**

* Admin will receive a notification when the DMV updates to newer test questions, or updates other information like policies.
* Securely edit and manage this content through an internal panel.
* Goal: DMV update system built, integrated in, and functional by April 27.

**5. Password Reset + Security Roles**

* Users need a password reset feature in case they forget their login.
* System must enforce role-based access control: Where there is a Admin, Secretary, Driver, and Customers. Each get scoped permissions, with the owner with full control.
* Goal: Authentication and role management fully implemented by April 27.

**6. Contact and Admin Interface**

* Contact form so customers can reach out.
* Admin dashboard that includes access to activity logs, modification history, with the ability to enable/disable certain packages they sell.
* All of this must be based around Liam’s UI layout sketch.
* Goal: Interface finalized and fully connected to backend by March 24.

**7. System Logs and Activity Reporting**

* Track and log all key actions to Liams business, like cancellations, reschedules, and users info.
* Have printable/downloadable activity reports for auditing.
* Goal: Full logging and reporting system functional by April 27.

**8. Hosting and Uptime Requirements**

System must be cloud-hosted with no burden on the client so they can focus on business.

It needs to support HTTPS, automatic backups, and reliable uptime, (from my development perspective.)

Goal: Final deployment and uptime testing completed by the goal of May 7.

### # I was told to stop here by directions that kind of confused me I hope this is correct.

## 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]