# 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

* The Client, DriverPass, wants to fill a gap in the market to provide driving test training to students.
* They want web-based practice exams and scheduling for in-person driving training.

### System Background

* DriverPass noticed a high rate of students failing tests at the DMV
* To counteract this, they want to provide online training and practice tests, along with the ability to schedule in-person driving sessions.
* The components needed for the system should include a way to store information online, to be easily accessible from anywhere with an internet connection
* Information should be stored in a cloud with built-in security solutions so DriverPass does not need their own

### Objectives and Goals

* When completed, the system would have a number of online classes and practice tests available to students, with records of completion/status/grades
* System would allow a choice of 3 packages with flexibility to build further packages at a later time
* System should allow for reservations, cancelations and edits of all schedules, with logging on each change by either users or staff
* End users (students) should also be able to reset their own passwords, or have a staff member reset it for them
* Staff members will have different available roles with permissions to only allow them to do what they need to be able to do
* Measurable tasks should include a timeline on each section of the proposed system
* Portions can be assigned to different team members and ranked on priority
* Status meetings can help keep everyone on-track but shouldn’t be so frequent as to interfere with work schedules

## 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

* The system should be web-based with cloud-stored databases, to be accessible from anywhere with internet access.
* The system should not lag due to user traffic and should run fast enough to not cause problems with the interface.
* The system should be updated any time there is a need from the Client, included recommended security updates and updates released by the DMV.

#### Platform Constraints

* The system should run on Windows and Apple platforms.
* The system is using Cloud support, which should provide the tools needed to run such as security and database space.

#### Accuracy and Precision

* To distinguish between different users, users should have unique login names. This can be email-based. Input for passwords should be case-sensitive.
* The system should inform admin of any problems occurring in the system, such as errors (System errors, not user errors) or slowdowns.

#### Adaptability

* Administrator users can make changes to existing users or add new users as needed.
* Platform updates should be introduced as needed for more features or to update from deprecated versions. User impact should be kept to the minimum.
* IT Admin should have full access to the database in order to modify and maintain the system, and have the ability to add or remove administrator users.

#### Security

* The user must have already had an account created by calling in for their account set-up.
* They can log in with a username and password after being initially enrolled.
* The Cloud is responsible for data security between the client and server.
* The system should temporarily lock an account after 3 failed login attempts for a set period of time, to avoid “brute-force” hacking attempts.
* If the user forgets their password, they should be able to request a password reset immediately. Using a registration email for a password reset link is recommended.
* The user could also call in to have their password reset link sent.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall allow users to select which package they want to purchase.
* The system shall allow administrator users to disable any given package.
* The system shall allow users to book driving reservations.
* The system shall allow users to take mock tests and attend online classes.
* The system shall include up-to-date DMV rules and regulations.
* The system shall display a calendar of events for that user.
* The system shall display records of past grades and future tests to the user.
* The system shall include feedback from drivers for improvement.
* The system shall show what driver is paired with the user for a given reservation.
* The system shall allow a user to reschedule or cancel reservations.
* The system shall allow for different levels of access for different types of users.

### User Interface

* The interface shall provide the user the ability to make, edit or cancel reservations for driving practice.
* The interface shall allow the user to take mock tests and online classes.
* The interface shall display historical grades on past tests and upcoming tasks for the user.
* The interface shall allow for employees to make, edit or cancel reservations on a user’s behalf.
* The interface shall show the driver paired with the user for a given driving session, along with pick up/drop off addresses.
* The interface must be functional on any device with an internet access, be it PC, Mac, laptop or smartphone.

### Assumptions

* A budget was not discussed in the interview.
* Resource limits were not discussed in the interview.
* Users must have either a phone to call in to the office to make changes or must have internet access to make changes themselves.
* Users must have internet access to take mock tests and online classes.
* Users must be able to afford the given packages, assuming market research was done on these costs.

### Limitations

* We have very strict deliverable dates, if any bugs need to be fixed during Testing then the delivery date will need to be pushed back. Just over a week of testing for a full system may not be sufficient.
* Package pieces could be made modular, to allow administrator users to piece together new packages on the fly. Issues would arrive for new offers, as a developer would need to add a new module piece.

### Gantt Chart

A screenshot of a computer

Description automatically generated