# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* Create a web-based application for DriverPass.
* The website should allow users to select services that the website offers.
* The website should allow users to schedule their driving session.
* The website will allow the client to manage and track users scheduled driving sessions.

### System Background

* DriverPass wants the system to be able to allow their customers to book practice exams, take online classes and schedule on-the-road training.
* DriverPass wanted to access the system anywhere as long there is an internet connection they can view content offline but they cannot change data until they get the internet connection.
* DriverPass wants every user to have specific access to the systems, limited access is provided to each type of user.
* DriverPass wants to keep documentation of the activity of its users. They want to be able to document reservations, cancelations, and modifications as well as the packages that were selected.
* The problem that our client wants to fix is to increase the number of people passing the driving permit and test.
* The components needed for this system are the user interface and database.

### Objectives and Goals

* Secretary and Student can make reservations, cancelations, and modifications to driving practices.
* The system will display the feedback from the driver.
* The system will allow the admin to track the system and student progress.
* Students can select 3 different packages.
* All user information will be kept in the database.
* The IT department will be able to have access to the user's account where they change the password and username, track, and maintain and update the system.
* The Admin should be able to can remove and add privileges to users.
* The Admin will be able to disable and enable the 3 packages.
* The system runs online as long there are internet connections, the user will be able to print out reports.
* The tasks need to make this system are collecting requirements from clients, dividing tasks for the team, creating use case diagrams, building activity diagrams for each use case, working on user interface designs, building class diagrams, checking with the customers on the progress, build the interface, link the database to interface, build the business logic, test the system and delivery the system.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system should be webbased and it should be capable of running on multiple modern devices.
* The system should able to be capable of handling multiple users.
* The system should be able to respond quickly to users' requests.
* The system should be updated when new information or features arise.
* The system should be able to store information in the database.

#### Platform Constraints

* DriverPass should be able to run on all the platforms like Windows OS, Linux OS, Mac OS and etc.
* The back end required a database to store user information, business information, finances, and many more.

#### Accuracy and Precision

* Each user should have a unique identifier key with their account.
* The users would be able to create usernames and passwords that are case-sensitive.
* The website could offer users multi-authentication to make their accounts more secure.
* The system should inform the admins when there are strange movements, bugs, and glitches in the network.

#### Adaptability

* The user should be able to add, remove, and modify their account without the changing code.
* When there is a platform update the system will be modified to be compatible with the update and itself will continue to be updated as the next update is scheduled, and if needs the update can be expedited.
* The IT admin should have full access to the system where they do perform maintenance, update information, assist users with issues, and more.

#### Security

* The login will require the user to enter their usernames and password that they created previously.
* The system should exchange encrypted information within the network using HTTPS.
* To prevent “brute force” hacking the system should only allow certain attempts after that the account will be locked until the user contacts the IT team or log-in using their personal information, or the ability to reset their password if they created their account using their email.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall allow the users to book one or more training sessions.
* The system shall allow the users to fill out their personal information.
* The system shall provide practice problems, tests, and classes.
* The system shall show the progress of their learning to the users.
* The system shall display three different training packages for users to select.
* The system shall pair the users with the driving instructor.
* The system shall show details of booking history to the users.
* The system shall be able to provide service based on their privileges.
* The system shall allow users to print their documents on the site.
* The system shall connect to DMV policies and rules changes and send notifications to the admin when there are new rules, policies, or sample questions.

### User Interface

* The interface needs to provide information on different packages that the users can select, the option to take classes, tests, and book driving practice. It will display “Online Test Progress”, “Student Information”, “Driver Notes”, “Special Needs”, “Driver Photo” and “Student Photo”.
* Different users of this interface are Drivers, Students, and Admins.
* Drivers should have the option to change their personal information, see their driving practices booking, and the student that they would be paired with.
* Student users should be able to select one of the three packages that DriverPass has to offer, they can sign up for an online class, do practice tests, and review their progress. Students should be able to reserve a driving practice and select a date and time that is available. Students should be able to see the details of their booking as well as driver feedback. Students will have the option to edit their profiles and pay for the services.
* Admin users should be able to manage driver profiles, review driver documents, access students through the interface, print out reports, change classes and test content, and disable and enable packages.
* Users will be able to get access to the system through the web browser using mobile devices, laptops, computers, and internet connection.

### Assumptions

* Assumed that we have a budget to make this project run on all types of web browsers, operating systems, and reliable hardware components.
* Assumed that all users will have an adequate internet connection.
* Assumed IT Admins have a good understanding to modified and maintaining the system.
* Assumed that the users have a basic understanding of how the website works and they can navigate within the interface.

### Limitations

* Users might have connection issues due to their low latency.
* Limited budget for the developments and advancement.
* Limited to create new features to make a customizable package for users.
* The current system can only hold a fixed amount of users.
* Limited time to work on the project.

### Gantt Chart

