# CS 255 Business Requirements Document Template

## 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?*

* DiverPass wants the system to provide in person driver testing and online classes to help with the study of a driver’s license.
* Wants to provide updated materials to review form the DMV
* Wants to schedule in person driver tests with an instructor

### 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 focus on helping people pass their driver license test.
* Drive Pass wants to provide three different packages for the customer to book driving time and take online classes.
* They want one website with multiple pages for the user that provides scheduling for lessons, there account info, there driving instructor’s notes, special needs, an instructor photo and student photo, and online test progress.

### 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?*

* Boss of the company needs to access data from any device mobile or computer.
* Boss needs to access data also online or offline so that he can work from home and for example use Excel.
* Ian needs access to all accounts, so he is able to reset passwords, block access, and track the reservations.
* Users should be able to book reservations online to take in person driving classes. Each reservation should have a form of identification for the instructor and the student. Also, each lesson should have a set pickup and drop-off location for the student.
* There should be 3 package offerings listed for the users. (Also, Liam would like to turn certain packages off if needed.)
* Wants the system be web based and run off of cloud preferably.
* Provided a certain layout there looking for the website.
* Needs to update with the DMV’s current rules and regulations.

## 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 needs to be able to be used offline for the admin.
* Would prefer to have access from mobile device or computer
* System needs to be constantly updated to make sure Liam is receiving the new client’s info when coming in. And so, they can update DMV laws and regulations.
* I would recommend making this a web-based application so it can run on a computer and a mobile device very clearly.
* Needs to run off of cloud.
* The speed of the website is important but not as important as the requirements listed above.

#### 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 should run on Windows it will be easier to develop their needs this way.
* Back end needs a large database to store clients frequently update info.
* Needs to be able to delete and reset user accounts.
* Reports from accounts needs to be downloadable.
* Ian needs to be able to track reservations and cancellations.
* Website needs to be able to change packages frequently.

#### 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?*

* Different users will be distinguished by their personal info and a user picture.
* All of the user’s info will constantly be updated on the site to show their progress.
* The system needs to update the admin immediately, the functions on this website are time sensitive.

#### 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?*

* Ian can make changes to the accounts without changing the code
* Ian will also have full access to everything in the program.
* Platform updates will need code changed; they will need to hire a developer back on to make changes.

#### 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 log in requires password and username
* We will use HTTP content that is unreadable by encrypting the traffic we will apply SSL to the system to ensure safety for the user’s data.
* If the user forgets their password Ian will need to manually reset, it.
* To help protect against “brute force attacks” we will make our user’s creating advanced passwords and usernames, with special characters and numbers.
* Also, to help against attacks Ian will need to immediately delete old accounts.

### 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.”*

* Validate user credentials.
* Remind user’s to frequently update their information(especially pick-up locations).
* System needs to update user’s progress.
* Ian needs to make adjustments to accounts.
* Certification requirements for the user to complete for the program.
* Authorization levels built in for the user and for the Admin.
* Authentication

### 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 needs to be able to setup an account.
* Choose a package from the options on the site.
* Pay for the package
* Add a profile picture
* See who their instructor will be and setup a pickup location.
* View their progress through their personal account
* Take online testing and view course materials.
* And schedule their practice 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?*

* Things that weren’t specifically addressed is the admins have an exact look and layout already for the website.
* We assume that the user’s will be aware that their account credentials will be viewed by the Admin.
* The technology we assume will be a web-based application.

### 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?*

* For all of the client’s needs especially being functional offline and downloading information the budget will need to be larger.
* For making updates to the packages, they will need to hire back on a developer, this cannot just be updated like the accounts.
* There wasn’t a time limit so therefore it is not a concern.

### 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.*

