# 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?*

* Creating new system for DriverPass
* Develop a better driver training
* Students are able to take online classes and practice tests to prepare
* Potential for offering an on-the-road training as well
* Create online database to view, edit, work on reports
* A tracking system to know when a user makes changes

### 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?*

* Help students with online classes and practice tests
* Optional on-the-road courses
* Fixing the problem of too many young people failing drivers tests because they are not prepared
* Different components include: online courses and tests, a tracking system, a reservation system, access data from anywhere, system security

### 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?*

* Students are able to sign up for accounts
* Able to study online content for coursework
* Ability to schedule in person driving lessons

## 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?*

* This system needs to run web-based, both on computer, tablet, and smartphone
* System should be updated on a weekly basis
* System should run quickly and smoothly

#### 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?*

* Windows is the preferred platform because of its compatibility with other user platforms such as phones and tablets

#### 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?*

* Only one account name can be used, does not have to be case sensitive
* Repeated user account names will require the user to choose a different account name
* System shall inform the admin of a problem when users cannot make accounts

#### 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?*

* At first, the ability of adding or removing modules will be a future release
* IT admin needs high level access to make changes and delete items

#### 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?*

* A simple user login name and password created by the user
* Since it will run off the cloud, connection and data exchange is taken off of our hands
* Account should be locked or frozen after a certain amount of failed login attempts with an account
* Forgot password will always be an option on the user login screen, by simply providing the email associated with the account

### 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.”*

* The system shall require user credentials to login
* The system shall be a cloud based web application
* The system shall be able to provide students with course material work and practice tests
* The system shall keep information secure
* The system shall keep track of where users leave off in material

### 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.)?*

* A simple user interface
* There will be not many user interfaces, only end uer(student), IT admin, and owner
* The user will interact by picking their desired coursework or material they want to study

### 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?*

* Being able to create an account or register through the website and not having to call the company itself
* This is assuming that every student has a computer, phone and access 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?*

* Limitations will include user load(how many users can access the system at the same time)
* Time limitation as we want this done asap

### 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.*

Chart, timeline

Description automatically generated