## System Components and DesignCS 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.

### 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 DriverPass. They have noticed that there are very few tools to help all the drivers pass their driving test. They have decided they would like me to help them create a sturdy system in the form of a website that also helps provide students with exams and book online road training.

### 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 for their system to help aid and fix the problem of people failing the driving test. To do this by allowing online practice exams, classes, etc. Some different components needed for this system are things like reservations, cancelations, and modifications to choose from for on-the-road training.

### 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?*

* Once the system is completed it should allow all the customers to book and modify as well as cancel on-the-road driver training. Meaning that customers should be able to take practice tests and classes online. Some measurable tasks need to be included in the system design to achieve this things like process models object models, and UML diagrams in order to help visualize the system.

## 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?*

* To successfully run this system we need web-based in a way over the cloud. At the exact moment, the client would want to add new features everything should run-up in due time.

#### 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?*

* I would suggest that the system should run on Linux. The system requires I would say the cloud to help maintain the security side of things. Which in the end helps take care of all the databases for the back end.

#### 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?*

* To distinguish between different users I will require everyone to have their own login. By that i mean username and password for accessing the website. Of course, the system should inform the admin ASAP when any issues big or small occur.

#### 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?*

* modifications to users should allow the choice to remove the users without changing the entire code. As far as the system adapting to platforms updates should be slow. Any admin should have full unlimited access to the system. This will allow changes etc.

#### 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?*

* For the user to log in they need a login as well as mulitifation authentication. The cloud can be capable of data exchange between the client and server. The system should be able to disable the account after four incorrect attempts at the login to help produce prevention from brute force attacks.

### 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 provide practice tests, and classes.
* The system shall show the driver the customer is paired with.
* The system shall offer three different driving packages.
* The system shall run fast and efficiently.

### 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.)?*

* The need for the interface is it must provide the customer a choice to make reservations for the driving test appointment online. Driverpass should have employees update as they wish. Any device the system should be able to be accessed.

### 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?*

* No budget was given for the system. So I have to run off the mind that anything done follows such budget. I would also figure that all the available technology there is easy access for me.

### 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?*

* I see limitations to this system design like having a short amount of time for the project and not enough workers. It helps to not be limited with money as a budget wasn’t mentioned.

### 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.*

