# 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

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

There are many students are failing the driving tests. The purpose of this project is to improve the new features and create a new system, training for the students to pass the driving test. The purpose is upgrading the driver registration process and the driver application process, driver examination for the students. The project want to ensure the conditions and all the preparation for the driver test are met and completed.

The client is the DriverPass company, the company wants to provide a better access for the students to the virtual classes and virtual examinations, and they want their system to provide the virtual examination for the driving test with different espects. The DriverPass company wants to get training courses, lessons, packages and tutorials. The DriverPass wants to upgrage and track the interview, process and want to build an effective training for the students’ drivers. The company wants to track and monitor the learning, practice and driving process to ensure the progress is effective.

### 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?*

The DriverPass want the students to access to the virtual test and classes to ensure that all of them can pass the driving test, and they can prepare for the driving interview. The DriverPass want to system to provide the different practice tests with different options for the students to ensure all the students pass the test before driving. They want the students to have a different package, courses, educations for the driving tests. The DriverPass want to provide and improve a better interactions and communications between the students’ drivers with the examiners.

The problem is there are not enough practice test and preparation for the examinations for the students. And the system wants to improve the preparation and examinations for the driving tests. And they want to fully provide all educations, courses, tutorial videos for the students. The system want the students to have access to the new effective courses, lessons in order to achieve and complete their driving test.

The different various components are the: First component is the educational courses. The education course is where the students can get a lot of virtual lectures, courses, lessons, resoures, eduations by the system, many study materials for the exams help the students easily participate and practice for the driving tests.

The second compenent is the real training courses for the students. The real training will help the system to have the schedules for the students to practice the driving process. The student can practice to drive on the street. The students can have more flexible practice time with the examinators. It is allowed the students to have practice training session with the instructors. The students also can track their trainning 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?*

When it completed, the system can provide the student with the full traning courses, educational courses, after completing, the driverPass can help the students to access to the virtual courses and help them to prepare for the drive examinations. It allows the examinators to track the progress of the learning courses. It upgrades the inforamtion, tutorial videos for the students to learn. The system can be able to improve the communication and interaction between the instructors and the students.

## 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?*

The web-based will be used as the environment, and the cloud will be used to support the web-based. The speed of the system for running will be fast and the users will access and navigate into the website without any corruptions. When the client wants to update the new features such as the designs and the new services to the system, the updates will start immediately as soon as possible.

#### 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?*

The Linux, Windows and Mac Operating System can be used and run on the system. the system can be able to support any kinds of the operating system because now a day many users use multiple operating system, and the operating system are various. The cloud mananagement storage can be used to store the database and the security. The cloud can be used to manage for the back end. Cloud is a way to manage data in the cloud, instead of just storing the data on the company's computer machine or the system's machines. Cloud storage can help for storing, organizing, managing, sharing, and backing up the data that on the an external hard drive storage system or by the third parties. The cloud storage can allow the customers or users to access all their files remotely.

#### 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?*

The system will distinguish the different users by having the users to login with different user credentials such as they will create their password and their username with different characters, unique identities. The users can have multiple authentications for the users in order to avoid the hackers and it is also distinguishing the different users. The input will be the case sensitive. The system will inform the administrations about the problem such as bugs automatically when the problem occurs. And the developers and the technicians can be able to get it fixed on time.

#### 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?*

The system can make changes and the user can make modifications without changing the code.The sytem can automatically adapt and access to the update in the platform and the technicians can be on time for the new update and check for the new update. When the Driver Pass company wants to create the new updates such as the new features, design, services to the website, the updates for the design and the update for the new features will start. The IT administration can have the full access to the system such as checking the user's data, user's behaviors, front end, and back end. And they can remove the users, employees if they are no longer be active.

#### 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?*

The user should be required to log in using a unique username and password. The connection between the client and the server should be secured using a Secure Socket Layer. Secure Socket Layer is a standard of security technology, it is the security between a web server and a browser. If there is a brute force, and the attackers try to guess the user's username and password, they tried to use all possible combinations to find out the computer or the network server, or the user's password. If there are too many attempts to login from the attackers, they will fail to login and they have to wait for a certain time to login in again. The account should be locked after a certain number of failed login attempts. The user should be able to reset their password using a secure and automated process.

### 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 functional requirements will include:

### • The system shall manage the profiles and applications from the drivers such as the system can mange the drivers' data and their information such as name, id, address, phone numbers, and insurance.

### • The system shall create an application for the drivers. The driver information such as contact details, stress address, lisence, insurance, insurance policy number, date of birth.

### • The system shall create the board which shows the data, informaions, performance, engagement of the users in the interface. It is the analytics dashboard which track all the enagements, activities of the users, it will show the retention metrics such as the users' growth rate the user's return rate and the customer satisfaction score.

### •The system shall validate the users' credentials such as it will check for the username, password, characters to verify the user's identity in order to check in.

### 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.)?*

It is neccessary that the interface will be easy to navigate, it needs to have the comforatble, simple interface and it creates a good impression for users. The applications, profile can be managed, accessed easily by the users and the administration can control, check the profile, applications of the drivers in the interface. The users can access to the interface from different website and web browser such as Firefox, Safari, Google Chrome, Opera, Internet Explorer. The interface can be accessed from the mobile phone. The users, the technicians, administrators of the website, the drivers, the users who will analize the website such as see how many people will visit the website, what are the activities from the visitors who are visiting the website. The analytics users can check the behaviors of the visitors, the activities of the visitors and check the data in the interface.

### 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?*

It is assumed that the users will have the stable internet connection. Good and stable internet connection will help the users access the website without the corruption and they can navigate the website fast. It is assumed that the users must know how to use the computer, and it is assumed that the administrators and the technology team will know how to repair, fix and maintance the system. If there are the updates for the new features and new services, the administrators and the technicians need to fix and repair the system. The system will go down in a certain day for maintanance. And the technician will have the abilities to finished the maintanance on time for the users to get back on the website.

### 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?*

There are limitations such as it is limited in the spending, cost for the maintanace and dedoyed the system. It will cost about six hundred thousand for the mantaince per year. The cost will include the purchasing the new features such as hardwares, drives, cloud storage, or the cost the the developed team for the new design. It will require a cost to design the new theme. The timeframe and the schedule to deploy the system will be long. On average, the fastest time to design a website is 3 to 4 months, the longer time can be about 1 to 2 years. And it is depending on the complexity and how many functions, features of the website. If the website has many functions and if the website has to be edited in many times, the time that are required to finish and complete a website will be a longer time than the expectation. English will be the main language for the system.

### 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.*

[Insert chart]

This is the Gantt chart, but the text is blur and it is difficult to read, I have attached the link for the image, and also the seperate pdf file within the submission.

<https://learn.snhu.edu/d2l/le/1346952/discussions/posts/92395463/ViewAttachment?fileId=101634100>

[Gantt chart.pdf](file:///C:\Users\trant\Downloads\Gantt%20chart.pdf)

Ảnh có chứa văn bản, ảnh chụp màn hình, số, màn hình

Mô tả được tạo tự động

Ảnh có chứa văn bản, ảnh chụp màn hình, Phông chữ, số

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Ảnh có chứa văn bản, ảnh chụp màn hình, số, hàng

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