# 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?*

* [DriverPass needs a system that supports online courseware and supports an online storefront to sell driver’s education to consumers.]

### 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’s system needs to provide a storefront for DriverPass, consumer content moderation capabilities, user authentication, and secure transaction capabilities.]

### 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?*

* [The system should have user login and user authentication. The system should provide users with varying levels of control over the system depending on user authorization level. User registration will be done by administrators. The system should Display deals and purchasable packages on the storefront and those deals should be modifiable by users with administrative privileges. Users that are of customer level privileges will be able to schedule appointments. Appointments should be viewable and modifiable by administrators. Changes to appointment dates and times by customer users should send an appointment update notification to administrators. Users of all levels will have a notifications tab. A appointment reminder notification should automatically be sent 24 and 48 hours prior to customer users. Upon selection of a package users will be prompted to add package to cart or cancel addition. After user Package has been added to cart the user may select the cart icon to be transferred to the cart page. From the cart users will be able to remove or increase the quantity of selected items or select the checkout button to be redirected to the checkout page. During the checkout process user will be prompted to confirm payment information from the registration process. Payment information entered should be checked for validity prior to confirmation of purchase.]

## 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 system will be web-based, preferably over the cloud. The system should be updated when features need added or updated, when problems are reported with system functionality, and when new policies are put into place.]

#### 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 system should be compatible with windows, Linux, and MAC OS as a baseline. There should be a online database so that information may be accessed from multiple devices at multiple locations.]

#### 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?*

* [Each user will have their own designated case-sensitive username and password. If greater than 5 failed sign in attempts are attempted, the user will need to confirm sign-in with their email or with customer support.]

#### 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?*

* [all customer level users will be stored in a database and modifiable at will. Higher privilege access users will need code modified. Platform updates will roll out at low-traffic times to avoid minimal interruption of traffic given downtime.]

#### 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?*

* [Each user will need to remember their individual case-sensitive log-in information. If a brute-force attack is attempted the 5 failed sign-in attempt limitation will prevent access. If a user forgets their password, they can use their email or contact customer support to reset it.]

### 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 permit login if correct login information is entered
* The system shall allow users to reset passwords
* The system shall block repeated failed sign-in attempts
* The system shall be accessible from multiple platforms
* The system shall allow customer users to purchase services
* The system shall allow administrator users to manage system content
* The system shall allow it-admin to access and modify code
* The system shall update with information from the dmv
* The system shall verify User payment method before purchase
* The system shall display customer education progress]

### 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 interface will need to be different for mobile devices as compared to mac, Linux, or windows. On mobile, the total screen area is smaller so content should be broken up into more pages for ease of navigation.
* Minimal requirements for interface display include:

Drivers Notes

Student info

Student photo

Education progress

Special needs

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### 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?*

* [I am making the assumption that general users of the system will understand system navigation given the navigation tabs/boxes are labeled appropriately.]

### Limitations

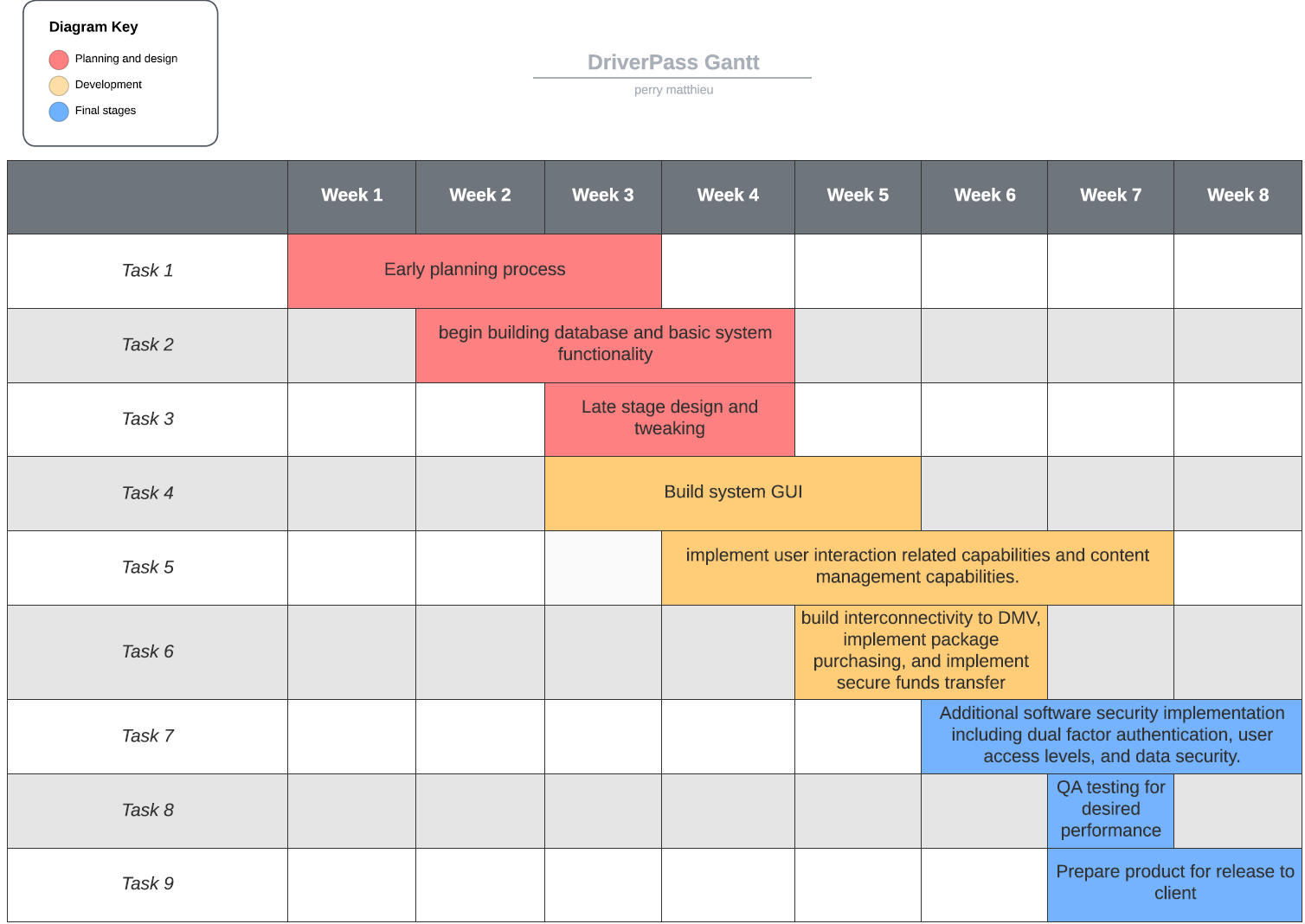
*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* [Creating a different interface for mobile devices.
* User accounts may take up excess space as time passes

A system of this complexity should not experience many limitations unless the budget is small.]

### 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.*

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