# 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?*

* Make an online driver training system for DriverPass
* Let customers take online classes, practice tests, and book on-road training
* Give better driver training to help more people pass DMV driving tests

### 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 a system to handle online and in-person driver training

Issue: Many people fail DMV driving tests because they're not well-prepared

Components needed:

• Online class and practice test platform

• Booking system for appointments

• User account management

• Reports and data access

• Link with DMV for updates

### 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?*

* Let customers make accounts and buy training packages
* Give online classes and practice tests
* Allow booking of on-road training appointments
* Keep track of customer progress and test scores
* Make reports on bookings, user activity, etc.
* Keep content up-to-date with DMV requirements
* Have different user types (admin, IT, secretary, customer) with the right access

## 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?*

* Web-based system you can use on computers and phones
* Cloud-based to avoid tech problems
* Let people see some reports/data offline
* Update regularly to stay in line with DMV rules

#### 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?*

* Web-based application
* Hosted in the cloud
* Database to store user info, bookings, etc.
* Work with Excel for some reports

#### 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?*

* Separate user accounts to tell users apart
* Keep track of all booking changes (who, what, when)
* Tell admins when there are system problems

#### 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?*

* Turn training packages on/off without changing code
* Make room for changing training packages later
* Keep up with DMV rule/policy 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?*

* Access based on user type (admins)
* Keep user data safe, including credit card info
* Let users reset their passwords
* Stop hackers from guessing passwords

### 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 let users make accounts with their personal info
* The system shall let users buy training packages
* The system shall give access to online classes and practice tests
* The system shall keep track of user progress and test scores
* The system shall let users book on-road training appointments
* The system shall let users change or cancel appointments
* The system shall make activity reports
* The system shall let admin users reset passwords and manage accounts
* The system shall get and use DMV updates
* The system shall let users download reports in Excel

### 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.)?*

* Web-based interface you can use in a browser
* Easy to use on phones
* Different screens for:

• Customers (account stuff, classes, booking)

• Secretary (managing appointments, entering customer info)

• IT admin (full system access, managing users)

• Owner (reports, data access)

* Show progress on online tests
* Show driver notes and lesson times

### 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?*

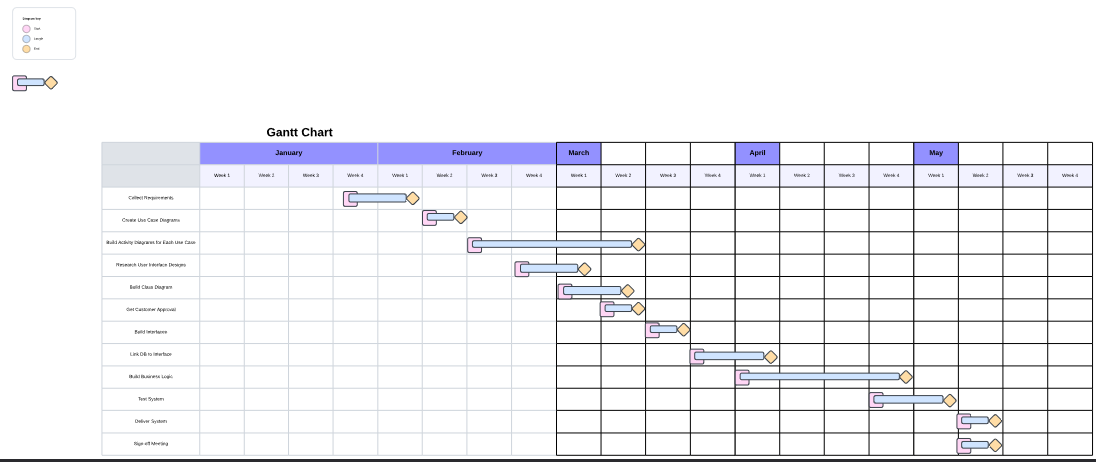
* Users have internet and know how to use computers
* DMV will give updates on rule changes quickly
* Customers have ways to pay online

### 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?*

* Can't change data offline to avoid mix-ups
* Need a developer to add/remove modules
* Starting with only 10 cars/drivers
* Depend on cloud service for some security and backup

### Gantt Chart

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