**CS-255 System Analysis And Design**

**Module 1 Assignment**

**Business Requirement Document**

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**Business Requirements Document**

# **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?*

* The purpose of this project is to design and implement a system for **DriverPass**, a company that helps students prepare for their DMV driving tests.
* DriverPass wants to provide students with **online practice exams**, **online courses**, and **on-the-road driving lessons**.
* The system should allow **customers** to access practice materials online, make reservations for driving lessons, and track their progress.
* The system should also allow **staff and administrators** (IT officer, secretary, trainers, and management) to manage user accounts, reset passwords, track appointments, and generate reports.

**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 identified a **problem in society**: many people fail their DMV driving tests due to a lack of proper training and preparation.
* Their solution is to create a **comprehensive training system** that combines:
* Online learning (classes and practice exams).
* Driving lesson reservations with professional trainers.
* Flexible training packages (6, 8, or 12 hours in-car training, with options for in-person DMV rules sessions and online content).
* The system must:
* Track **student progress** on practice exams (status: not taken, in progress, failed, or passed).
* Allow **customers** to schedule, modify, or cancel driving lesson reservations online or through the secretary.
* Support **role-based access** for different types of users (boss, IT officer, secretary, trainers, customers).
* Provide **tracking and reporting features** to monitor who made, changed, or canceled reservations.

**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?*

* Provide customers with access to **online courses, practice exams, and training packages**.
* Allow customers to **make, modify, and cancel reservations** for driving lessons online.
* Ensure students can **track their exam results and progress** (status: not taken, in progress, failed, passed).
* Enable staff (secretary) to **enter customer information** and schedule appointments by phone or in person.
* Allow the IT officer to **reset passwords, manage accounts, and block access** when necessary.
* Provide management with **activity logs and reports** showing who made, changed, or canceled reservations.
* Maintain compliance with **DMV rules and updates**, including receiving notifications of policy/test changes.
* Deliver a **secure, cloud-based, web-accessible system** that minimizes downtime and technical problems.

# **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?*

* [Insert text]

### **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?*

* [Insert text]

### **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?*

* [Insert text]

### **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?*

* [Insert text]

### **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?*

* [Insert text]

## **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.”*

* [Insert text]

### **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.)?*

* [Insert text]

### **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?*

* [Insert text]

### **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?*

* [Insert text]

### **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]