**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?*

* Open a market segment for student drivers that is accessible to the students offline and online.
* Material focused on training student drivers to pass the driving exam.
* Reservation system for driving classes.

**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?*

* Make reservations
* Have roles for different users with identity and access management
* Cloud deployed system
* Redundant data system

**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?*

* Interface of driver information with status of their test
* Reservation system that can book different packages.
* Keep up to date with compliance
* Input customer data for payment and logistics for day of course.

**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 Application that can be accessed while offline

**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?*

* Desktop PC, Mac, iOS, or Android

**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?*

* Data will be redundant, multiple uploads of same data due to offline need.
* Inform admin of reservation changes.

**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?*

* Add users through phone call and administrating changes by secretary

**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?*

* System needs role based security
* Automatic reset of password if user forgets

**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.”*

* Register new customers through the phone
* Customer shall be able to add packages
* Customer shall be able to schedule driver training
* Customer shall be able to access up to date training information
* Admin shall be able to register customers
* Admin shall be able to make reports.
* Admin shall be able to publish a driver trainer schedule

**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.)?*

* Interface needs customer information
* Interface needs Online test progress
* Interface needs to be able to store notes for customers
* Interface needs photo images for driver and customer

**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?*

* Assume that all users have eye sight
* Assume that all users are of driving age (15.5 in California)
* Assume that all users have some sort of internet connection for a limited amount of time

**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?*

* This system cannot be instantiated out of thin air
* This system needs the internet to update
* This system cannot guarantee a pass in the online or physical driving test
* This system cannot be scaled beyond the tens of thousands

**Gantt Chart**

Timeline

Description automatically generated