

Southern New Hampshire University
CS 255 Business Requirements Document Template
Corey Arnold

System Components and Design

Purpose

- The client is DriverPass, and they want their system to be able to provide better driving training and to lower the amount of people failing driving tests at the DMV. This system will provide online classes and practice tests as well as providing optional on the road training.

System Background

- DriverPass is looking for an easy to use system that allows for users to access online courses and trainings for driving tests, and also information needs to be downloadable for offline work and the system needs to allow for reservations to be made for on the road practice.

Objectives and Goals

- The end goal is to create a system that can track reservations made through the system, provide online courses and lessons, all in a printable format that can function on any computer or mobile device.

Requirements

Nonfunctional Requirements

Performance Requirements

- Based on the requests of the client this system needs to be able to run in both web-based and application environments to be accessible via computer or smart device easily.
- The system does not have any features that are reliant on speed, but should still be made to run as quickly as possible for the convince of the user, especially in the section covering the online quizzes.
- The system should only need to be updated when the driving tests are updated to feature the new information, or as the client company grows to account for more driving instructors.

Platform Constraints

- When picking a platform to run our system, I would go with Windows mainly for its ease of use, popularity, and widespread features and tools to make the process as easy as possible. Windows also can be easily adapted to fit other platforms to make it more widely available as quickly as possible to people on other platforms.

Accuracy and Precision

- In my opinion it is best to start with a system that will last the entire lifespan of the project so in regards to distinguishing different users I would from the very beginning utilize a system that assigns each user with a user code. For example John Doe creating his account on February 5th, 2023 would be assigned DOE0205231. User input would not be case sensitive, and the system should inform the admin of a problem as soon as the problem arises.

Adaptability

- You cannot make changes to the user without changing the code. The system will need to be restarted to apply platform updates, but would function as normal until the code is altered to take advantage of new platform features, and the IT admin needs access to the code itself but not to the personal information of the users.

Security

- The user will be required to provide an email and password for login, but will also be required to use a dual factor authenticator in order to access their information for safety purposes. Brute force hacking attempts would be repelled by the dual factor authenticator. If a user were to forget their password, they would have the option to send a link to their email to reset the password.

Functional Requirements

- The system shall validate user credentials when logging in
- The system shall show options of online tests, online courses, and scheduling driving practice options.
- The system shall track project on online courses, and track online test grades.
- The system shall hold reservations for driving practice sessions.
- The system shall allow students to make, change, and delete driving practice appoints and alert the instructor to any changes.

User Interface

- The different users for the interface are the customers, the instructors, and the IT admin. The customers will need to be able to view and download content from courses, and make appointments for driving practice. Instructors need to be able to edit content in courses, upload quizzes, and provide feedback to various customers, and be able to see reservations for driving practices. The users will have the option of using either mobile or browser.

Assumptions

- The technical requirement were not specifically addressed such as storage space, processing speed ie. For this document I am assuming that users will be accessing the system through at the very least sub optimal devices to ensure an enjoyable learning experience.

Limitations

- The requirements of this system are not ground breaking so as far as technology, and resources I do not believe there will be an issue. I have not seen any mention of a budget so I am unsure of what that has been listed as, and in regards to time this would be an easy task with the appropriate team of programmers set to the task.

Gantt Chart

