Southern New Hampshire University

# CS 255 Business Requirements Document – Ava Lindgren

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?*

- The client, DriverPass, wants to create a way for drivers-in-training to have a system that will assist them in in-person driving practice lessons, the scheduling of these in-car lessons, and options to take practice tests for their licenses online. This project will offer online services, including training, for new drivers to access and use with ease.

### 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?*

- The purpose of DriverPass is for the system to provide proper training for every customer both on the road and online.
- DriverPass wants to fix the issue of high failure rates at DMVs local to the customer(s), and they propose that a system that addresses specific challenges drivers may face when preparing to get their license and taking the tests so that they are fully prepared.
- Online classes and practice tests are essential to achieving the goal of lowering the high failure rates at DMVs. A scheduling system, user roles and permissions, a cloud-based system, as well as data security are all components necessary that will allow DriverPass's service to follow the DMV and scalability in the future. Additionally, this should be accessible both online and offline with the option of in-person training instead of just online.

### 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?*

- When the project is completed, the system should be able to meet and exceed multiple objectives and goals that will assist users with scheduling lessons as well as accessibility for these lessons per DriverPass's requested website/tool.

- Measurable tasks needed include: A user-friendly user interface (UI) that strictly follows what the client needs; the development of interactive online modules with the inclusion of videos, quizzes, as well as simulations the users can follow, access, and finish; the implementation of an online booking software system with packages available for purchase by customers which include the specific time and date selections for driving lessons; functionalities for account management with password management and reset should be included alongside activity logging in order to track tasks, lessons, and quizzes that are completed; RBAC (role-based access control) should be implemented for permissions for Liam, the DriverPass owner, Ian, the IT officer, as well as secretary and customers.

## 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]