# CS 255 Business Requirements Document Template

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## System Components and Design

### Purpose

* The purpose of this project is the client DriverPass would like an application to help make passing the driver’s test easier. Through this application, it will provide students the ability to practice tests, study, and make appointments for on the road training.

### System Background

* DriverPass wants their system to help decrease the number of students who fail their driver’s test by providing them resources to help pass. The client would like the application to include practice tests, study materials, classes, and the ability to make appointments to receive on the road drivers training through internet access. The client would like the application to have certain security features that allow access to different users. The application should also keep track of all the users reservations, cancelations, changes, and offer the user three different packages for on the road training. The system should also include all the information about the student and an area for the driver to include notes.

### Objectives and Goals

* When the system is completed it should be able to function properly and allow users to use the resources to pass their tests, make and keep track of appointments, and allow certain employee users the ability to make changes to the system if necessary. To achieve success in the system design the software and languages used will have to be able to build a website that is accessible by the web to all web users. To plan for the build the team will need to use UML diagrams, object and process models, and communication to complete this task.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* Should be web based
* No complications or noticable wait time should be shown when loading website
* Website needs to be able to be updated when there are bugs or improvements needed.

#### Platform Constraints

* Should be able to run on linux, microsoft, and macOs devices
* Using cloud to store data

#### Accuracy and Precision

* Each user should be able to create a username and password that is case sensitive.
* System should have multi factor authentication.
* Admin should be notified of any bugs

#### Adaptability

* The system will allow admin to modify and delete users.
* The I.T. admin should be able to make changes as needed.
* Platform updates should be performed.

#### Security

* The system will require a user to login with username and password.
* The system will have multi factor authentication.
* The system should be able to lock accounts after too many failed login attempts.
* The system should be able to allow users to send password resets to a trusted device or email.

### Functional Requirements

* The system shall validate user credentials
* The system shall book user reservations
* The system shall allow user to change or cancel reservations
* The system shall provide classes and practice tests
* The system shall show user and driver profile
* The system shall offer three different driver packages to be purchased
* The system shall run fast and efficient
* The system shall allow for student, driver, and admin roles
* The system shall show grades or completions for worked turned in by student
* The system shall show drivers notes
* The system shall show taken reservations
* The system shall show driver and student photo
* The system shall show if user needs accommodations

### User Interface

* The interface should be able to allow users to make reservations for drive times, register for classes, and take practice tests.
* The interface should allow users to change or cancel reservations
* The interface should allow for management to provide maintenance as needed
* The interface should be device friendly and be accessed on mobile phone, laptop,tablet, or computer

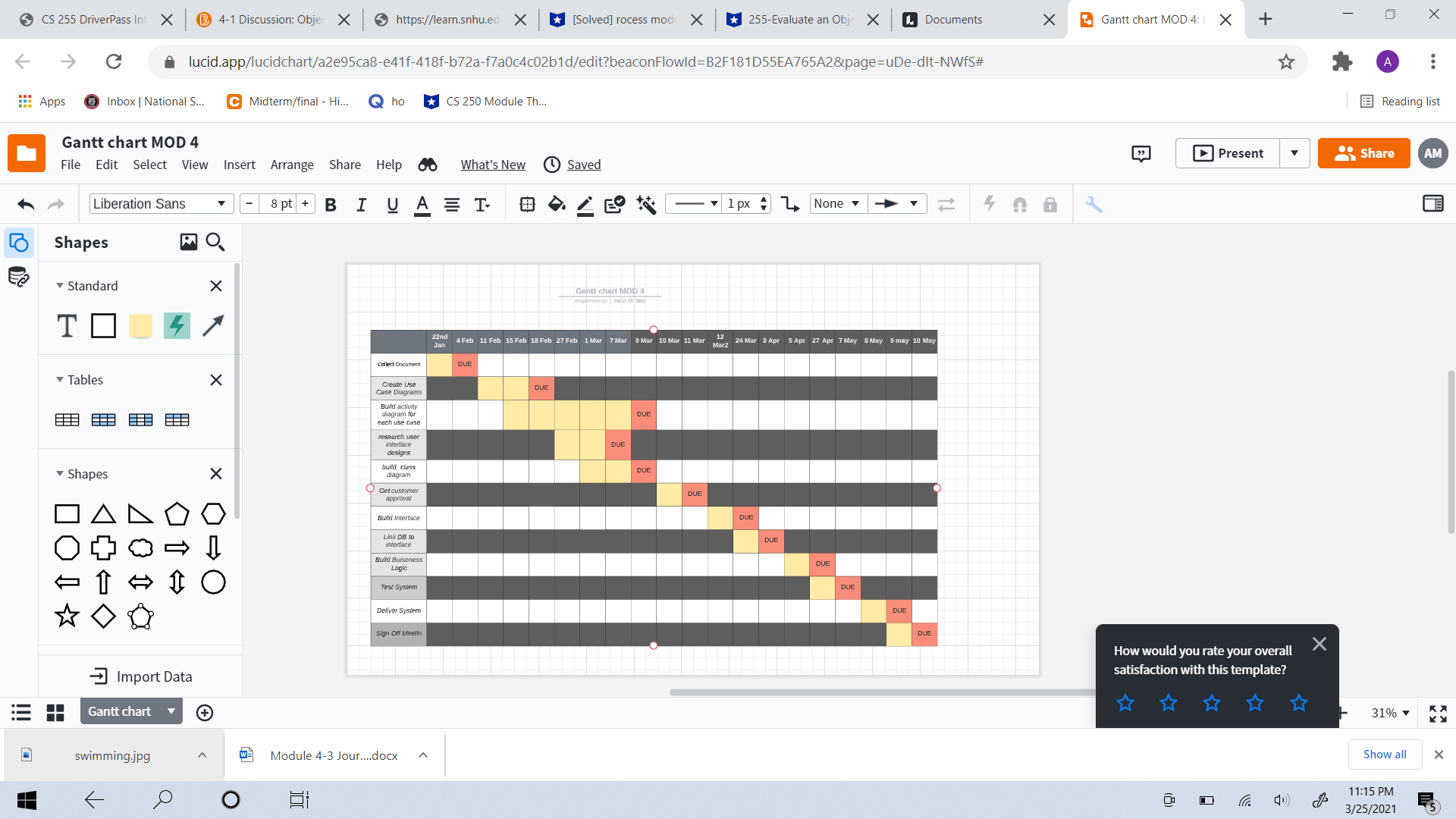
### Assumptions

* We assume users have access to technology
* We assume users can work technology

### Limitations

* There is only about five months to produce the product
* No budget was given
* The agile approach is believed to be the best approach for our team.
* Sizing on a mobile device may be off place

### Gantt Chart

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