# CS 255 Business Requirements Document Template

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?*

* Join a mostly void market
* Training people to drive
* Make the roads safer
* Ensure everyone has the most updated training and policies
* Work with the DMV for any future compliance changes

### 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 wants the system to take online tests
* On the road tests
* Be accessible from anywhere online
* Make reservation by phone call or online and include time and day
* To identify the driver and the customer
* This will make more trained drivers, making the roads safer
* The website needs to show:
  + Driver notes
  + Online Test Progress
  + General information of the student
  + Specials needs if any
  + Driver photo
  + Student photo

### 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?*

* System needs to be flexible
* Be downloaded for offline use
* Updates with the reservations and cancelled ones
* Notify the driver and the customer
* Run on the cloud
* Show test progress
  + Times taken
  + Score
  + Status
  + Passed/Fail/In Progress
* Input where the student/secretary fill in their general information
  + First name
  + Last name
  + Address
  + Payment
  + Etc.

## 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?*

* The system needs to run on many every main platform so the information can be accessed from anywhere
  + Android
  + IOS
  + Web Browser
* The system needs to be fast enough where if information is updated on the web browser, it should be able to be seen on the applications too.
* The system should be updated regularly if
  + New Security Update
  + Reports of Crashing
  + General Updates to the Layout
  + Update When New Laws and/or Regulations Come Out

#### 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?*

* There are only a few platform constraints that we would need to worry about
  + Web Browser, mainly HTTPS/JAVA
  + Android
  + IOS
* The back end can be set up where all the information is on the web browser, making the applications from android and IOS pull the information from the web browser and port it into the app itself.

#### 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?*

* Each user will have to log in with a username and password before have access to any information
* The input will be case-sensitive because it makes the passwords or secure
* After the third attempt of signing in the system will
  + Inform the Admins
  + Request a password Reset
  + Request Answer to Security Questions

#### 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?*

* The ability to make changes will involve
  + Adding Code
  + Removing Code
  + Modifying Code (Unless Built in Something Like Square Space)
* The platform updates will be handled by
  + Rolling Out IOS Updates
  + Rolling Out Android Updates
  + Temporary Bringing Down the Web Browser During a Noncrucial Time
* The IT admin needs
  + Access to the Source Code
  + To Modify Code
  + The New Regulations and Laws Passed For the DMV

#### 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?*

* The log in will be secure because
  + User Will Need Username and Password
  + Advise the User When Network is Not Secure
  + Notify the User and Admin If an Account is Being Hacked or Attacked
    - Here the brute force hack will be reported to the admin and the user will be logged out. If the attack it bad enough the servers will go down to prevent any long-term damage.
* If the user forgets their password or username, they can
  + Answer Security Questions That Have Preset Answers
  + Reset Their Passwords
  + Contact Support via Phone Number

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall update any documents and information between platforms.
* The system shall allow a reset of a password.
* The system shall allow information to be modify on any platform.
* The system shall tell the progress of the class and hours logged.
* The system shall be updated with any new regulation or laws.
* The system shall show online test progress.
* The system shall display user information.
* The system shall if needed.

### User Interface

* The user interfaces will depend on what platform is being used.
  + On Mac, Linux, and Windows, the user interface will consist of the mouse and keyboard.
  + On Android and IOS the user interface will the finger touching the phone.
  + The interface will display:
    - Online Test Progress
    - Driver Notes
    - Student Information
    - Special Needs (if any)
    - Driver Photo
    - Student Photo

### Assumptions

* Some of the things not addressed in the User Interface section that are assumed are
  + I assume these because for 99% of the target audience, this should come natural like breathing
    - Knowing how to work an android
    - Knowing how to work an iPhone
    - Knowing how to work a keyboard and mouse

### 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?*

* Some of the limitations include
  + Screen size when comparing to web browser and applications for phone
  + Phones do not have as much power compared to computers
    - Will have to be optimize
* The limitations about time don’t account for any programming errors in the event the team reaches a nasty bug
* The budget should be good, unless a serious security flaw or bug pops up. Then it will be coming straight out of the profit margins.
* The technology limitations don’t exist, however a web browser on a computer usually has more processing power compared to a smart phone. This means to ensure the Android app and IOS app are well optimize.

### Gantt Chart

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