**What does the client want the system to do?**

DriverPass would like to provide students with the ability to take online practice tests and other training for student drivers. The DriverPass application would also like to keep the progress of students’ driving lessons so for a greater learning experience. The client also wants the system to be updated on an as needed basis; The DMV gets updates every so often, so the system will need to be updated to ensure that learners and administrators are getting the correct information. The client company also wants to provide drivers in learning with hands-on, on the road experience.

**Who will be the different users of the system? What will each user need to be able to do?**

The different users of this system are as follows: the administrator(s) of the system will have full access to the system with the ability to reset user accounts when needed, or to block access to someone. Also, the administrator wants to be able to track who made a reservation as well as when the reservation was scheduled. The owner of DriverPass needs to be able to access data from the system whenever and wherever he is. Administrators need the ability to register users that call in over the phone so long as the required information is given. Users will have access to purchase a given package and begin lessons focused on driving rules and regulations as well as best practices and standards. The user should also be able to have their password reset should they forget what it was. User progress will be monitored and displayed for each individual user.

**What are the different requirements for the system?**

The requirements included for this system include better driver training, online practice tests and more. Universal data access for product owner, employee access to accounts for cancelations, updates and modification; User reservation scheduling, training packages and more.

**System Components and Design**

**Purpose**

The purpose of this design and other components is to better prepare and train people to be ready to drive on their own. The purpose is to better prepare them to pass driving tests.

**System Background**

The system background should look neat and organized; The users’ profile will consist of their unique information as well as the progress and/or needs of that user/student. User picture will also be included with the user profile along with any/all driver notes added during testing. The client would like to be able to access the systems data from anywhere online as well as offline; The client would like to access the system from any computer available as well as any mobile device. Reports and other needed information should be available to download so that the client may work from anywhere.

**Objectives and Goals**

The objective/goals in creating this design is to have better track of how well or how poor students test including special needs for different students; This design will also help students to be better prepared for driving tests. Other goals include allowing the security team full access to students accounts to reset passwords or to close out accounts for accounts that are no longer in use. Administration should be able to print information and activity reports and make appointments or schedule driving lessons. The use should have the ability to make/cancel or modify their own appointment online as they see fit. The administration team should be able to identify the driver that is scheduled to drive with a given student. Packages should be created to be customized by the customer. In other words, the customer can remove or add things to their packages based on their training needs. The system should be connected to the DMV database in order for the system to be updated with the newest rules and polies related to driving laws and regulations.

**Requirements**

**Nonfunctional Requirements**

* Performance requirements
  + - Platform constraints
    - Accuracy and precision
    - Adaptability
    - Security
  + **Functional Requirements**
  + **User Interface**
* **Assumptions**

Assumptions made about the system encompass the operating environment in which it will be run, input data characteristics, and requirements, to mention the least of the system assumptions. Many times, while developing a program or system, the team might overlook the fast changes made in technology and operating systems; This could render the currently developed system inoperable. Other assumptions that could impact the system is that each of the customers and/or users are technologically savvy. Many people are not inclined to understand technology as quickly as others. This could have an impact on the older generation of customers that need training and access to online accounts.

* **Limitations**

The limitations of this system entail how it can be run or accessed on a desktop computer, a laptop computer, a mobile device. The system should not be accessible from a gaming console or device.

Using Lucidchart, create a Gantt chart to outline a schedule based on the information provided in the transcript. Include a screenshot of your Gantt chart in the business requirements document. Your schedule must include a realistic schedule of tasks for the project, based on prioritization, dependencies, and time allocation. Be sure each area of your schedule is clearly labeled.

* **Model Application**
  + **Process Model:** Describe how you would apply a process modeling approach to the DriverPass project.

I would apply the process model approach to the DriverPass project by setting up the data sources of the system, i.e., the data coming in from customers and administrative personnel, including, appointment scheduling/rescheduling, cancelations, et cetera. Also, customer details including name, address, phone number, times of training, and more. A process for scheduling and training will encompass a customer/student driver picking one of the three available packages, and the administrative team choosing a time slot and a driver available for training during the time in which the customer specifies.

* + **Object Model:** Describe how you would apply an object modeling approach to the DriverPass project.  
    **IMPORTANT: You do *not* need to create object- or process-model diagrams for this paper.**

For an object model, the system would have the following functions: addAccount(), updateAccount(), deleteAccount(), updateName(), updateEmail(), updateAddress(), and updatePhone() will be listed as private functions to secure sensitive customer information. loginIn(), verifyLogin(), will also be listed as private functions. The placePackageOrder() will be represented as a public function. Many more functions include scheduleTraining(), cancelTraining(), modifyTrainTime(),

* **Model Comparison:** Compare the advantages and disadvantages of a process- and an object-modeling approach for addressing this scenario.

Different modelling has varying advantages and disadvantages for developing a system or program. The advantages for using a process model for developing DriverPass includes being able to see the behavior and resources of the system. Also, the development team will better share an understanding of the flow and activities of the system as well. The disadvantages of using a process model for DriverPass is the risk of team members over analyzing the system. The advantages of using an object model is that everyone will understand the system in terms of objects. Also, object models help in quicker software development lifecycles; These convenient object models are simple to maintain as errors can occur and are simple to correct while using an object model. The disadvantages of using an object model include the time and energy taken to set up the object model. Another disadvantage entails best practices of software development not being used.