# System Components and Design

## Purpose

- DriverPass is a startup company focused on improving driver education and DMV test pass rates.  
- The purpose of this project is to design and develop a cloud-based web system to support DriverPass’s services, including online classes, practice tests, appointment scheduling, and in-person driving sessions.  
- The client wants the system to support online and mobile access, role-based user permissions, activity tracking, and appointment scheduling.  
- The system should also allow exporting data for offline access and enable admin control over training package availability.

## System Background

- DriverPass seeks to address the high failure rate of DMV driving tests due to lack of comprehensive training options.  
- Their goal is to provide flexible, quality driver education through a combination of:  
 - Online driver education and practice tests  
 - In-person lessons explaining DMV policies  
 - On-the-road driving instruction in scheduled time blocks  
- The system must include:  
 - Role-based user access (Admin, IT Officer, Secretary, Student)  
 - Package management (three training packages with future expandability)  
 - Reservation/scheduling system for lessons  
 - Online course tracking and test results  
 - Integration with DMV updates  
 - Secure account creation, login, and password reset functionality

## Objectives and Goals

- The system should allow students to:  
 - Register, log in, and reset passwords online  
 - Schedule, cancel, or modify driving lessons  
 - View lesson history, driver comments, and training progress  
 - Access and complete online practice tests and lessons  
- The system should enable administrators and staff to:  
 - Manage user accounts and permissions  
 - Track lesson reservations and driver assignments  
 - Export reports (e.g., student progress, appointments)  
 - Modify which training packages are active or inactive  
 - Monitor system activity logs (who made, changed, or canceled bookings)  
- The system should:  
 - Notify staff when DMV policies or content are updated  
 - Securely handle personal and payment data  
 - Run on cloud infrastructure with minimal local IT burden