**System Components and Design**

**Purpose**

* The purpose of this project is to create a system for **DriverPass**, a company that helps people prepare for their driving tests.
* The system should let students take online practice exams and schedule on-the-road driving lessons.
* It should also let DriverPass staff manage users, lessons, and reports.
* The system must be secure, easy to use, and available online from any device.

**System Background**

* Many students fail their DMV tests because they only study old exams.
* DriverPass wants to give students better tools, such as online lessons, practice tests, and real driving practice.
* The system needs to handle lesson reservations, user accounts, payments, and progress tracking.
* It must also update automatically with new DMV rules or test changes.

**Objectives and Goals**

* Allow students to register online and choose a training package.
* Let students book, change, or cancel lessons online.
* Track drivers, cars, and lesson times.
* Record and show student test results.
* Keep data secure and easy to back up.
* Notify the owner about important updates.
* Let IT manage user accounts and reset passwords.

**Requirements**

**Nonfunctional Requirements**

**Performance**

* The system will be **web-based** and run smoothly on computers and mobile devices.
* Pages should load quickly, and data should save without delays.
* The system should be available most of the time and backed up daily.

**Platform**

* The system will run on **Windows, macOS, Android, and iOS**.
* It will use a **cloud server** and a **database** to store information.

**Accuracy**

* The system will use usernames and passwords for all users.
* It will record who makes or changes each reservation.
* It will alert admins about errors or login issues.

**Adaptability**

* Admins can add or edit users without changing code.
* The system will work with future browser updates.
* IT can manage all accounts and permissions.

**Security**

* Users must log in with a username and password.
* All data will be sent over a secure HTTPS connection.
* Accounts will lock after too many failed logins.
* Users can reset forgotten passwords through email.
* Payment data will be encrypted and protected.

**Functional Requirements**

* The system shall let users create and log in to accounts.
* The system shall let students schedule, change, or cancel lessons.
* The system shall track driver names, lesson times, and comments.
* The system shall record practice test results and progress.
* The system shall let IT reset passwords and disable accounts.
* The system shall connect to the DMV to get new test updates.
* The system shall generate reports for students and staff.

**User Interface**

* **Users:** Owner, IT admin, Secretary, Instructor, Student.
* **Interface needs:**
  + Simple menus and tables for lessons, progress, and reports.
  + Online test pages that show test names, times, scores, and status.
  + A clean dashboard that works on computers and phones.
* Users will interact through a **web browser** or **mobile app**.

**Assumptions**

* All users have internet access.
* The DMV provides digital updates.
* Payments are handled through a secure third-party service.
* Future features can be added later.

**Limitations**

* Only developers can add or remove large system modules.
* Budget and time may limit some features.
* Staff training may be needed to use the system.

