### ****Introduction****

The **Rwanda Driving License Management System** is an online platform that helps to apply and manage for driving licenses in Rwanda. It makes the whole process easier by allowing candidates to get their licenses without the need for a lot of paperwork.It aims to make the process faster, safer, and more transparent, providing a better experience for both citizens and government officials. It also helps ensure that everything is organized and works smoothly.

### ****Problem Statement****

In Rwanda, the process of applying for, obtaining, and renewing a driving license involves multiple manual steps, including paperwork, test scheduling, and document verification. This often leads to delays, inefficiencies, and a lack of transparency, which can frustrate candidates and overload administrative staff. Additionally, the current system relies heavily on physical visits to government offices, resulting in time-consuming procedures for both citizens and officials.

There is a need for a **digital solution** that can streamline the entire process, allowing candidates to apply, schedule tests, and manage their licenses online. By doing so, the system can reduce manual effort, improve accuracy, and provide quicker, more transparent services. Furthermore, it would ease the administrative workload for government officials, making it easier for them to track applications, test results, and issue licenses efficiently.

### ****Objectives****

* To **digitize** the driving license application and management process in Rwanda.
* To enable **online scheduling** of theory and practical driving tests.
* To **record and manage** candidates grades in a secure and organized way.
* To **speed up** the approval and issuance of driving licenses.
* To **reduce paperwork** and physical visits to government offices.
* To improve **transparency and communication** between candidates and administrators.
* To provide administrators with an **easy-to-use system** for reviewing applications, managing tests, and issuing licenses.
* To ensure the **security and privacy** of user data throughout the system.

### Objective

Build a comprehensive digital solution for the Rwandan driving license system, enabling citizens to apply for licenses, check their application status, and access issued licenses online, while providing authorities with administrative tools for reviewing, approving, and maintaining license records.

### Features

1. **Create**: User accounts, license applications, driving license records
2. **Read**: Application status, license records, user data
3. **Update**: Application info, license status, user profile
4. **Delete**: Cancel application, remove expired/invalid records

### Entities and Attributes

**Candidate**

* NationalId (PK)
* Full\_Name
* Gender
* Date\_of\_birth
* Email
* PhoneNumber

**Application**

* Application\_Id (PK)
* NationalId (FK)
* Application\_Date
* License\_Type (e.g., A, B, C)
* Status (Pending, Approved, Rejected)

**License**

* License\_Id (PK)
* NationalId (FK)
* License\_Number
* License\_Type (e.g., A, B, C)
* Issue\_Date
* Expiry\_Date
* Status (Active, Suspended, Expired)

**Admin**

* Admin\_Id (PK)
* Username
* Email
* Password

**Grade**

* Application\_Id (FK)
* Test\_type (Theory, Practical)
* Score
* Decision
* Test\_Date