**Vehicle Inspection Certification Smart Contract**

A blockchain-based system for managing the issuance and revocation of vehicle inspection certificates. It is designed for use by a central authority, such as the Rwanda National Police (RNP), to ensure transparency, traceability, and integrity of vehicle inspection records.

**Table of Contents**

1. Features
2. Requirements
3. Prerequisites
4. Smart Contract
5. Installation and Setup
6. Functions Overview
7. Access Control
8. Example Certificate Data
9. Future Improvements
10. License
11. Contact

**Features**

1. Issue vehicle inspection certificates
2. Revoke certificates
3. View certificate details by vehicle plate
4. Track total number of issued certificates
5. Access control to restrict sensitive actions

**Requirements**

**Prerequisites**

1. Node.js (v16+)
2. Hardhat or Truffle for smart contract deployment
3. Ethers.js v6 or Web3.js for interaction
4. MetaMask or Web3-compatible wallet
5. Solidity v0.8.x compiler

**Smart Contract**

1. Solidity version: `^0.8.0`
2. SPDX License Identifier: `MIT`

**Installation and Setup**

Clone the Repository

```bash

git clone https://github.com/your-username/vehicle-certification-dapp.git

cd vehicle-certification-dapp