#### **Week 1 Report**

**Name of Project:** Intelligent ID Detection and Web Automation Tool for College Campus - Codename: CleverID

**Class and Specialization:** B.Tech CSE / AiML

**Group Members:**

1. Omkar Shirodkar
2. Faaz Siddiqui

**Points Discussed:**

1. **Project Overview & Goals:**
   * The project, *CleverID*, aims to develop a seamless tool integrating ID detection with web automation to simplify the login process for college systems. The project focuses on touchless, accurate, and user-friendly features to enhance efficiency and security.
   * Key functionalities discussed:
     + Real-time ID scanning through Optical Character Recognition (OCR).
     + Automation of login workflows using Selenium.
     + Implementation of robust error handling for reliable operations.
   * A long-term vision includes scaling *CleverID* for other use cases within educational and corporate campuses.
2. **Team Roles & Responsibilities:**
   * *Omkar Shirodkar*: Backend developer focusing on the OCR setup and the integration of automation frameworks. Responsible for coding the core modules and maintaining system reliability.
   * *Faaz Siddiqui*: Researcher and data analyst, analyzing the campus portal’s architecture and documenting workflows. Also responsible for compiling system requirements and conducting initial usability tests.
3. **Research & Requirement Analysis:**
   * Conducted a detailed review of OCR libraries (Tesseract and Google Vision API) to determine the best fit for ID detection.
   * Explored Selenium for web automation to streamline login processes.
   * Analyzed the college's login portal to identify critical elements for automation, such as input fields and security protocols.

**Resources Used:**

* Documentation for OCR libraries and Selenium.
* College portal login interface for structural analysis.
* Research papers on automation tools and OCR technologies.

**Target for Next Week:**

* Develop user workflows and create wireframes for *CleverID*.
* Finalize the libraries and tools for OCR and automation.

**Guide Name and Signature with Remarks:**

* Name:
* Signature:
* Remarks: