

# **Rapid Prototyping Practice using Object Oriented Programming (RPPOOP)**

**Project Name: Attendance using Face Recognition System.**

## Week 1 progress:

- Learning about structure of project and dividing it into 2 sections, namely **Attendance using Face Recognition** and **Google form (via QR Code)**.
- Exploring different libraries required for project.
- Face Recognition will also contain two parts, that is, **Provision to add new user** and **mark attendance**.

## Part I: Attendance using Face Recognition.

Libraries required:

- OpenCV - used for image processing tasks like face detection and recognition.
- Flask - (Python + HTML) used for web framework.
- datetime - Set interval for marking attendance.
- OS - managing operating system related tasks and interaction with folders.
- NumPy - used for numerical computing in python.
- Pandas - useful for data manipulation and analysis.

## Part II: Google form (via QR Code).

Libraries required:

- qrcode - to generate QR codes in Python.