

Project Planning Phase

Technology Stack (Architecture and Stack)

Date	27 October 2023
Team ID	Team – 592460
Project Name	Crime Vision: Advanced Crime Classification Using Deep Learning
Maximum Marks	4 marks

Technical Architecture

The Deliverable shall include the architectural diagram below and the information as per Table 1 and Table 2

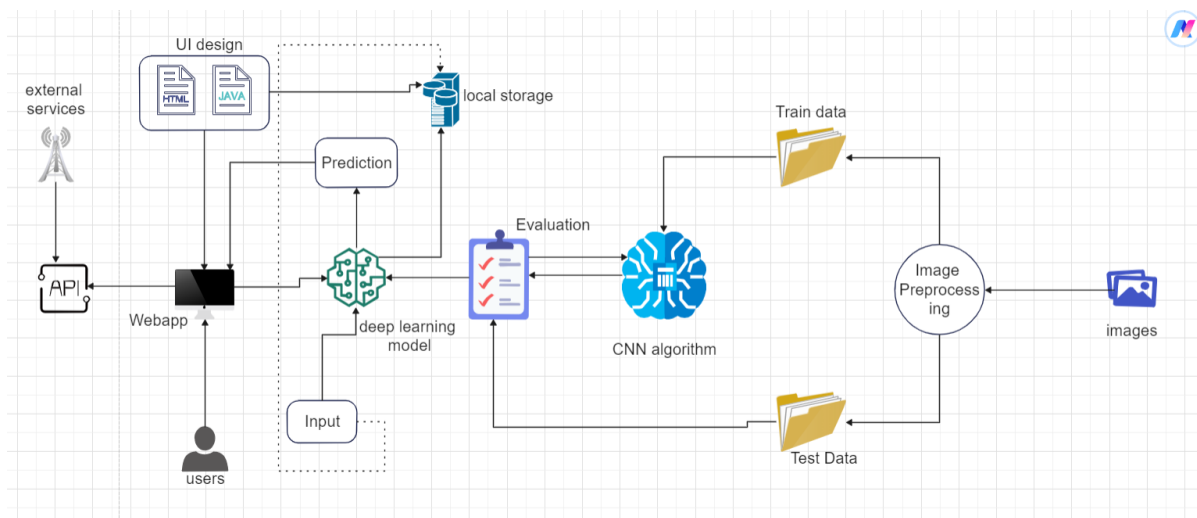


Table 1: Components and Technologies

Sl. No	Component	Description	Technology
1	User Interface (frontend)	Provide a user-friendly interface to interact with multiple components of the project	HTML, CSS, JavaScript
2	Web Application	Manage frontend functionality	Flask
3	Deep Learning Model	Performs crime classification on images	Python, TensorFlow, Keras
4	Image Processing and Analysis	Process and analyze uploaded images	Python
5	Application Logic	Allow Camera Access	JavaScript, Flask
6	Application Logic	Allow local storage Access	JavaScript, Python
7	File Storage	Images are accessed from and stored in the user's local file storage	Local File System

8	External API	Connect to cell services	Twilio API
9	Infrastructure	Application Deployed on local System	Flask

Table 2: Application Characteristics

Sl. No	Characteristic	Description	Technology
1	Open-Source Frameworks	Flask	Web Server Gateway Interface, Jinja2 templating Engine, Werkzeug
2	Security Implementations	Password-protected downloadable result	PDF encryption based on RC4 encryption