Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	16 November 2023
Team ID	Team-592650
Project Name	AI Body Language Detector Using Mediapipe
Maximum Marks	4 Marks

Technical Architecture:
The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2. Technical architecture diagrams depict the structure, components, and interactions within a software or system architecture. They are also sometimes referred to as system architecture diagrams, software architecture diagrams, or block diagrams.

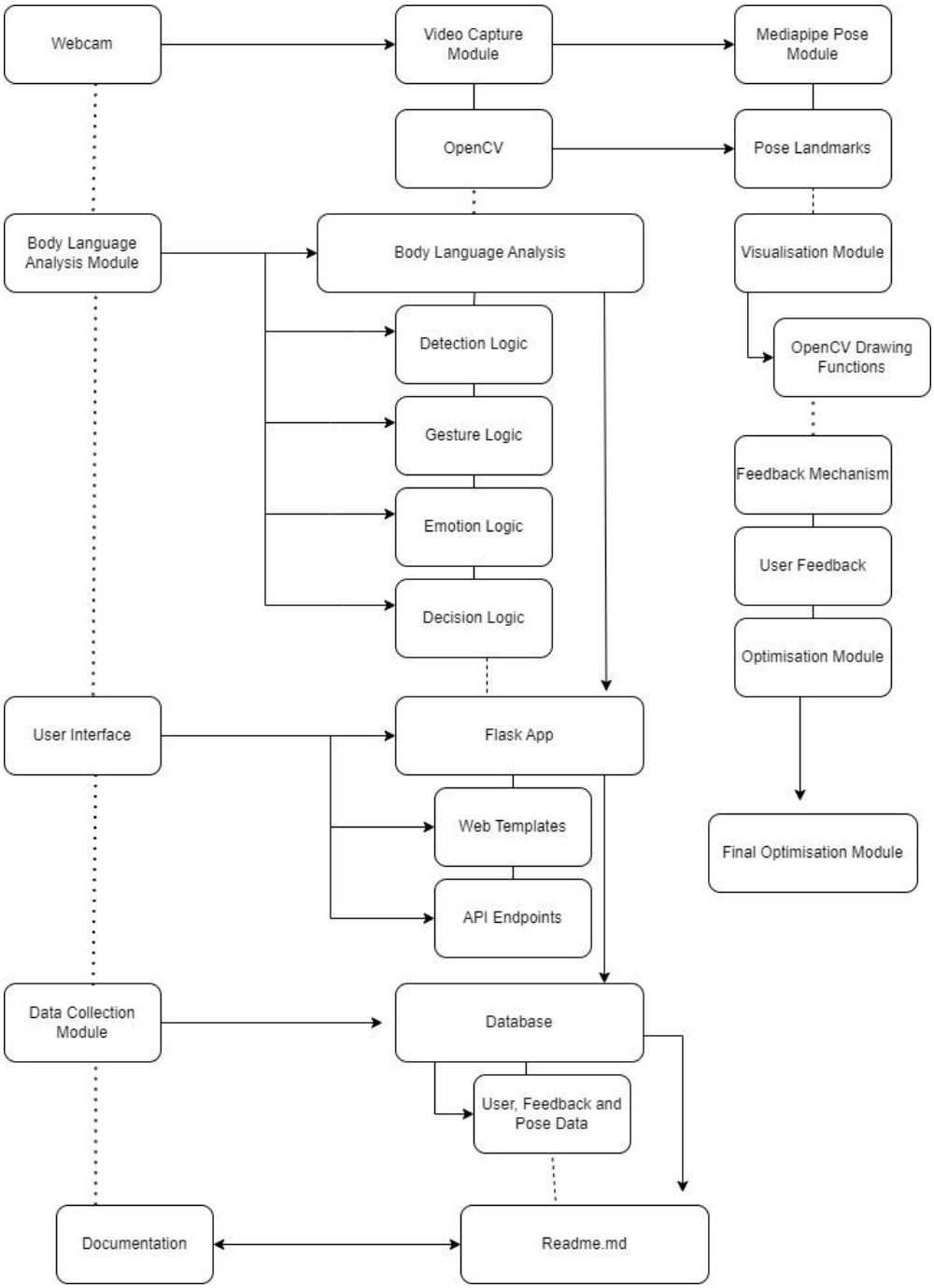

Table-1: Components and Technologies

S.No	Component	Description	Technology
1	User Interface	Web interface for user interaction	HTML, CSS, JavaScript, Frontend Framework (e.g., React, Angular, Vue)
2	Application Logic-1	Core logic for body language analysis and decision-making	Python, Custom Logic
3	Database	System for storing and managing data	Database System (e.g., SQL, MongoDB)
4	File Storage	Module for storing and retrieving files	File storage System (e.g., local storage, cloud storage)
5	Framework	Web framework for building the application	Flask, Django, Express etc..
6	Documentation	Documentation for the project	Markdown, Documentation

Table-2: Application Characteristics

S.No	Component	Description	Technology
1	Open-Source Frameworks	Utilizes open-source frameworks for building the application	Flask (Python), Mediapipe (Body Language Analysis), OpenCV
2	Security Implementations	Implements security measures to protect user data and prevent unauthorized access	SSL/TLS, HTTPS, OAuth, JWT, Encryption Algorithms
3	Scalable Architecture	Built with scalability in mind capable of handling increased load by adding resources or distributed systems	Microservices, Containerization (Docker, Kubernetes), Load Balancing
4	Availability	Ensures high availability and reliability, minimizing downtime	Redundancy, Failover, Mechanisms, Monitoring
5	Performance	Optimized for performance, efficient data retrieval and low latency response times.	Caching (Redis), CDN (Content Delivery Network), Optimisation