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

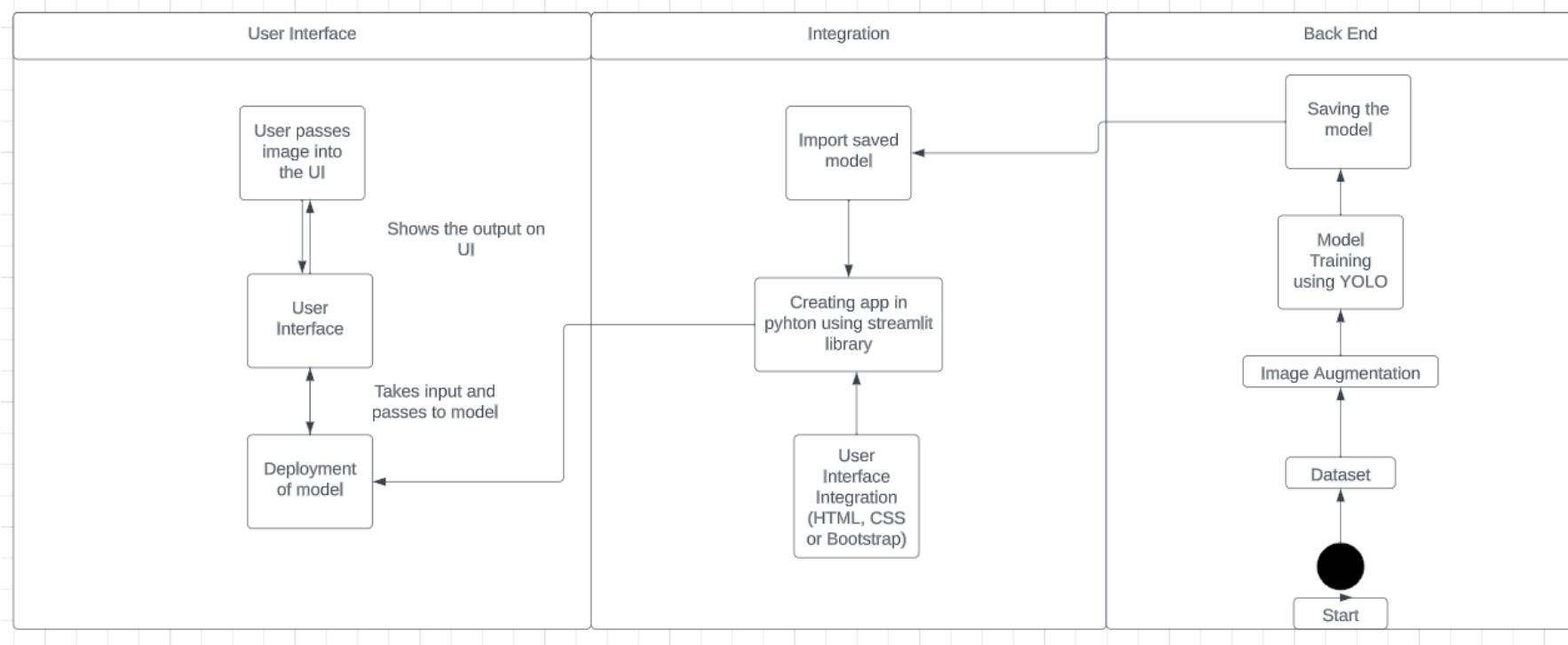|	
Date	07 November 2023
Team ID	Team - 592720
Project Name	Project - Arming Against Violence - Yolo-Based Weapon Detection
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Framework	Used to create a web application, integrating frontend and backend	Python's Streamlit library
4.	Machine Learning Model	Object detection	YOLOv8
5.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Streamlit Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	YoloV8 (ultralytics), Streamlit.io