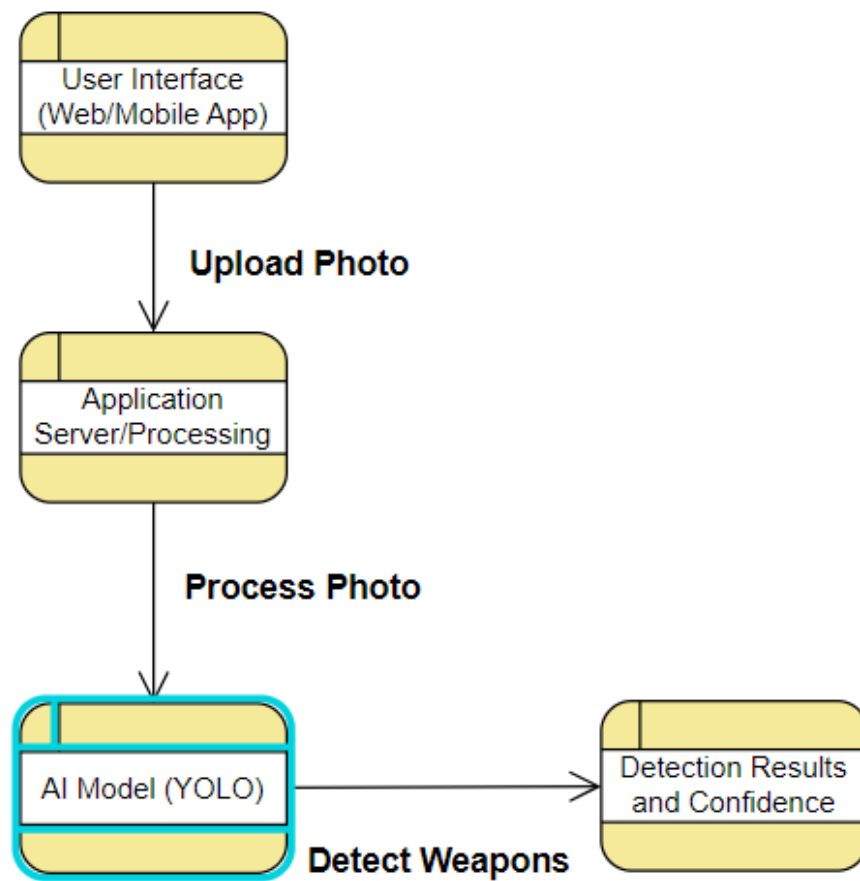


Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 November 2023
Team ID	Team - 592720
Project Name	Arming Against Violence - YOLO-Based Weapon Detection
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Security Personnel	Photo Upload and Input Processing	USN-1	As a security personnel, I can upload a photo for weapon detection.	I can successfully upload a photo through the application.	High	Sprint-1
	Weapon Detection Algorithm	USN-2	As a security personnel, I can initiate the weapon detection process	I can trigger the detection process after uploading a photo.	High	Sprint-1
	Result Display and Reporting	USN-3	As a security personnel, I can view the results of the weapon detection.	I can see the detection results, including information on detected weapons and confidence scores.	High	Sprint-1
	Real-time Alerting	USN-4	As a security personnel, I can receive alerts if a weapon is detected.	I receive real-time alerts if a weapon is detected in the uploaded photo.	High	Sprint-1
	Report Generation and Export	USN-5	As a security personnel, I can download or save the weapon detection report.	I can download or save a detailed report of the weapon detection results.	Medium	Sprint-2
	Feedback and Improvement	USN-6	As a security personnel, I can flag false positives and provide feedback to improve the system.	I can mark false positives and submit feedback to enhance the system's accuracy.	Medium	Sprint-2

System Administrator	Model Configuration and Updates	USN-7	As a system administrator, I can configure and update the YOLOv7 model.	I can access configuration settings for the YOLOv7 model. - I can update the model with new data or adjustments.	High	Sprint-3
	System Monitoring and Logging	USN-8	As a system administrator, I can monitor the performance of the weapon detection system.	I can view performance metrics and logs to ensure the system is running smoothly.	High	Sprint-3
	Automated Alerting	USN-9	As a system administrator, I can receive automated alerts for system issues.	I receive real-time alerts for system-related issues or failures.	High	Sprint-3