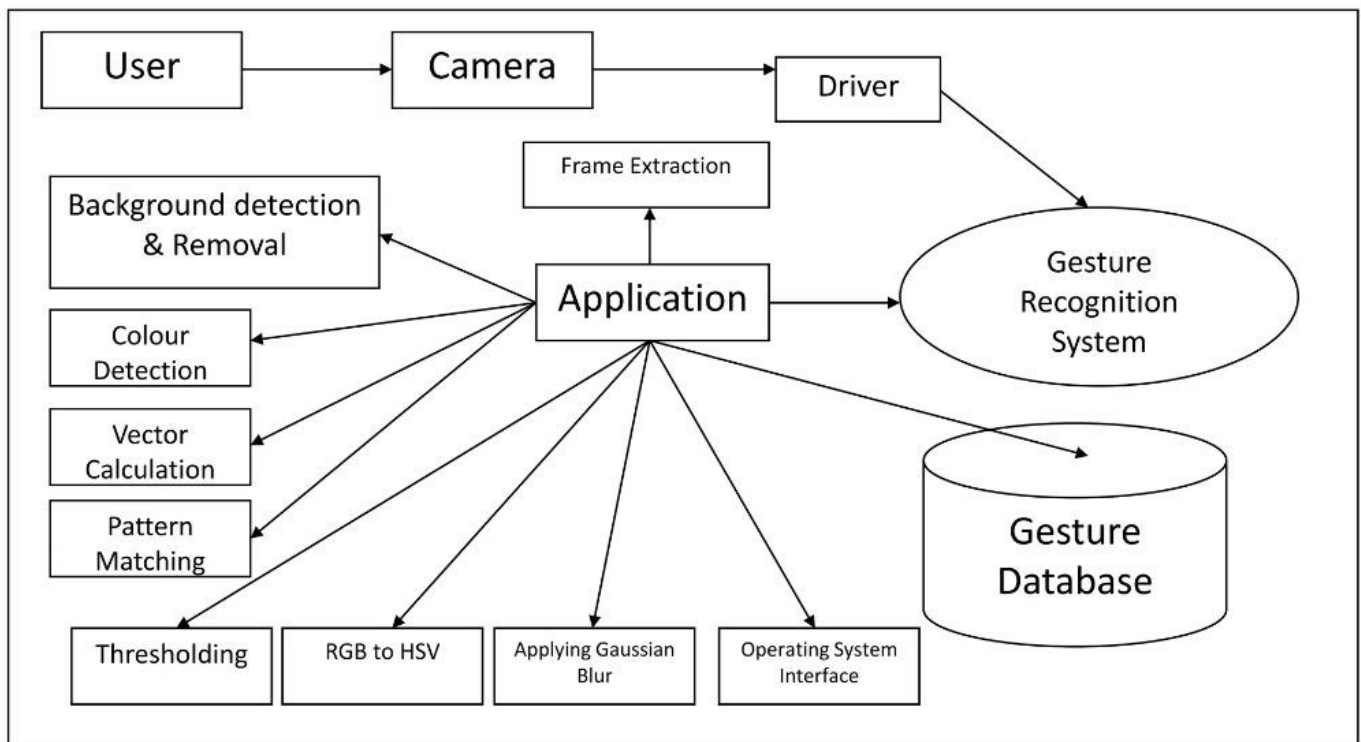


DATA FLOW DIAGRAM

Date	November 2nd, 2023
Team ID	PNT2022TMID592425
Project Name	ASL- Alphabet Image Recognition
Maximum Marks	4 Marks

Data Flow Diagram



USER STORIES DIAGRAM

User Type	Functional Requirement	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
ASL Learner	Recognition	US-01	Sign Recognition	As an ASL learner, I want to sign a word or phrase, and the system should recognize and display the corresponding ASL sign or translation.	High	v1.0
ASL Teacher	Verification	US-02	Student Sign Verification	As an ASL teacher, I want to verify and correct my students' ASL signs using the system.	High	v1.0
Deaf User	Translation	US-03	Sign-to-Text Translation	As a deaf user, I want the system to convert ASL signs to text or speech to assist in communication with hearing individuals.	High	v1.1
System Administrator	Monitoring	US-04	System Performance Monitoring	As a system administrator, I want to monitor the system's performance and usage statistics.	Medium	v1.1
Researcher	Data Collection	US-05	User Interaction Data Collection	As a researcher, I want to collect data on user interactions and system performance for analysis.	Medium	v1.2

Mobile App User	Mobile Accessibility	US-06	Mobile App Access	As a mobile app user, I want to access the ASL sign recognition system on my smartphone.	High	v1.2
Web App User	Web Accessibility	US-07	Web App Access	As a web app user, I want to access the ASL sign recognition system through my web browser.	High	v1.2
Security Officer	Data Security	US-08	Data Security & Privacy	As a security officer, I want user data, especially video streams, to be securely processed and stored.	High	v1.3
Scaling Needs	Performance	US-09	System Scalability	As the project scales, I want the system to handle an increasing number of users without compromising recognition accuracy or performance.	High	v1.3
User Feedback	Feedback Mechanism	US-10	Built-in Feedback Mechanism	As a user, I want a built-in feedback mechanism to report recognition inaccuracies and other issues.	Medium	v1.4
User Profiles	Personalization	US-11	User Profile Management	As a user, I want the system to store my preferences and usage history for personalization.	Medium	v1.4
Sign Language Interpreter	Real-time Interpretation	US-12	Real-time Interpretation	As a sign language interpreter, I want the	High	v1.5

				system to assist me in real-time interpretation.		
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This table provides a structured overview of user stories, their respective functional requirements, acceptance criteria, priorities, and planned releases for the ASL sign recognition project. It helps in organizing and prioritizing the development tasks.