

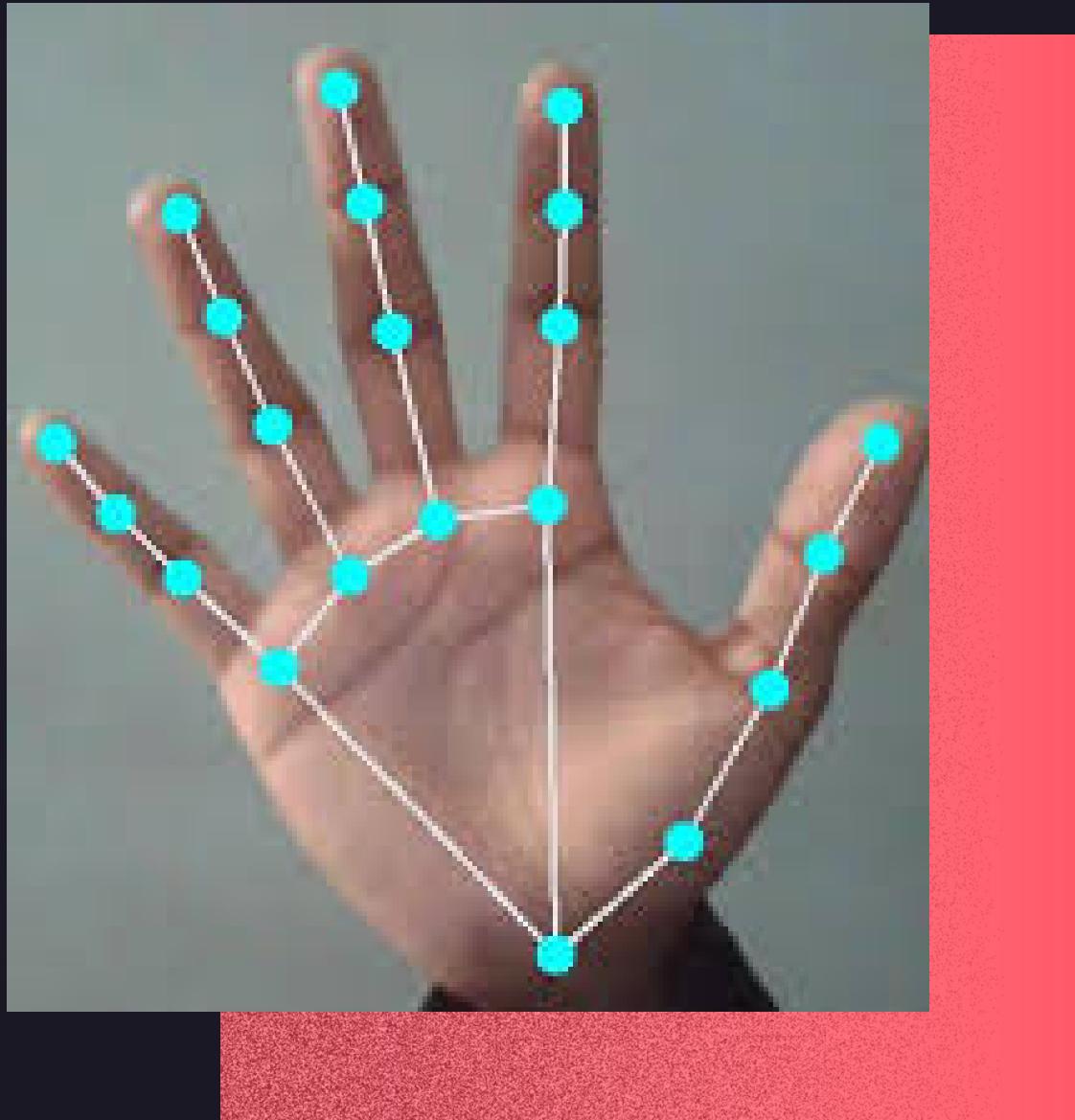


Webcam Wizardry: A Virtual Keyboard and Mouse for Frictionless Computing

Domain:

- Computer Vision
- Deep Learning
- Machine learning

ABSTRACT

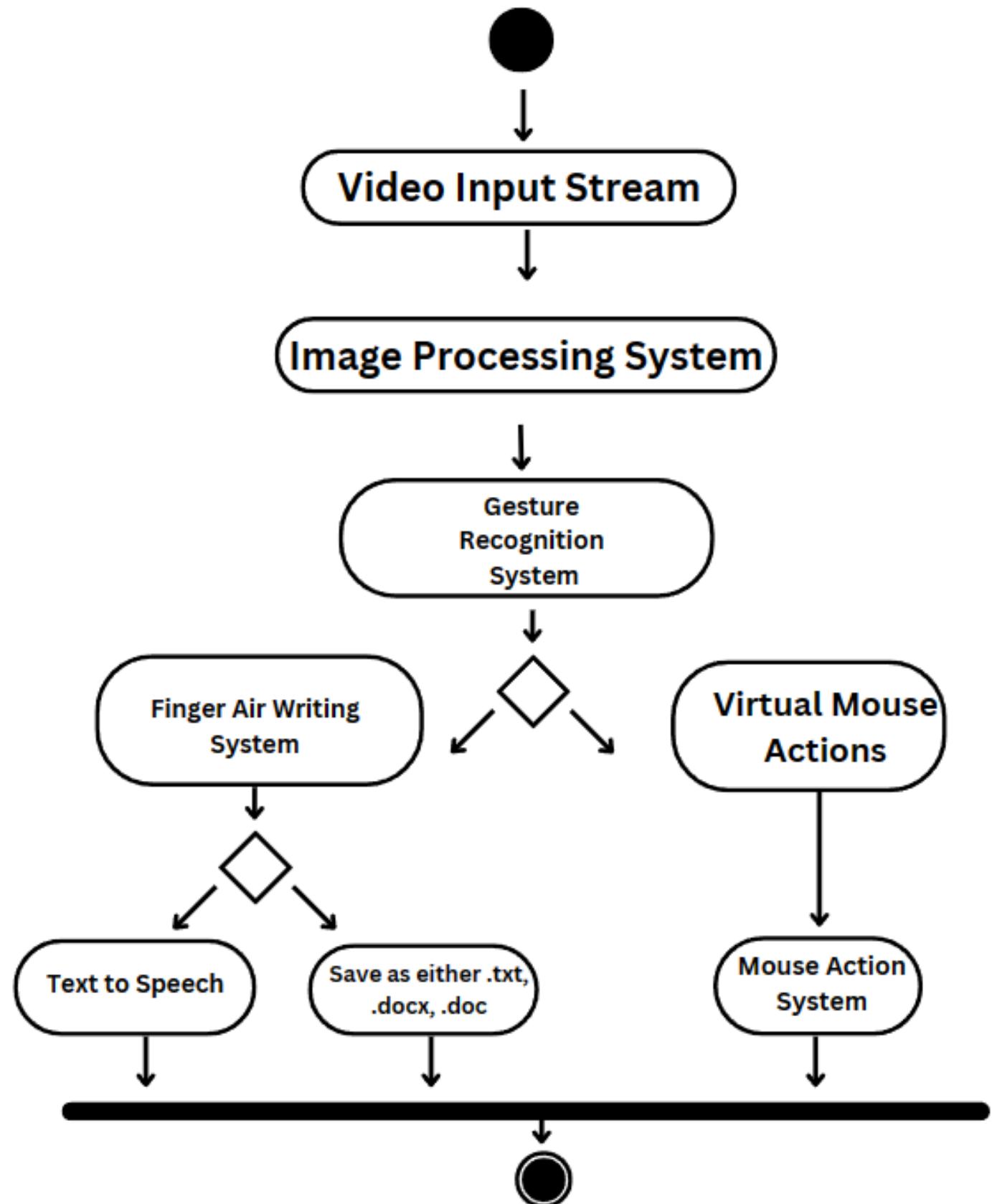


- The aim of this project is to develop a system that uses a webcam to track the movement of a virtual mouse cursor and finger air writing on a computer screen.
- It can be used as an assistive technology for people with limited mobility or disabilities, allowing them to control their computers using hand gestures.
- A virtual mouse cursor is a software-generated cursor that simulates the behaviour of a physical mouse cursor.
- Some of its features include position tracking, click and drag, multi-touch support like zooming or scrolling using two or more fingers .
- The finger air writing method is a way of inputting text, allowing users to write in the air without the need for a physical keyboard.

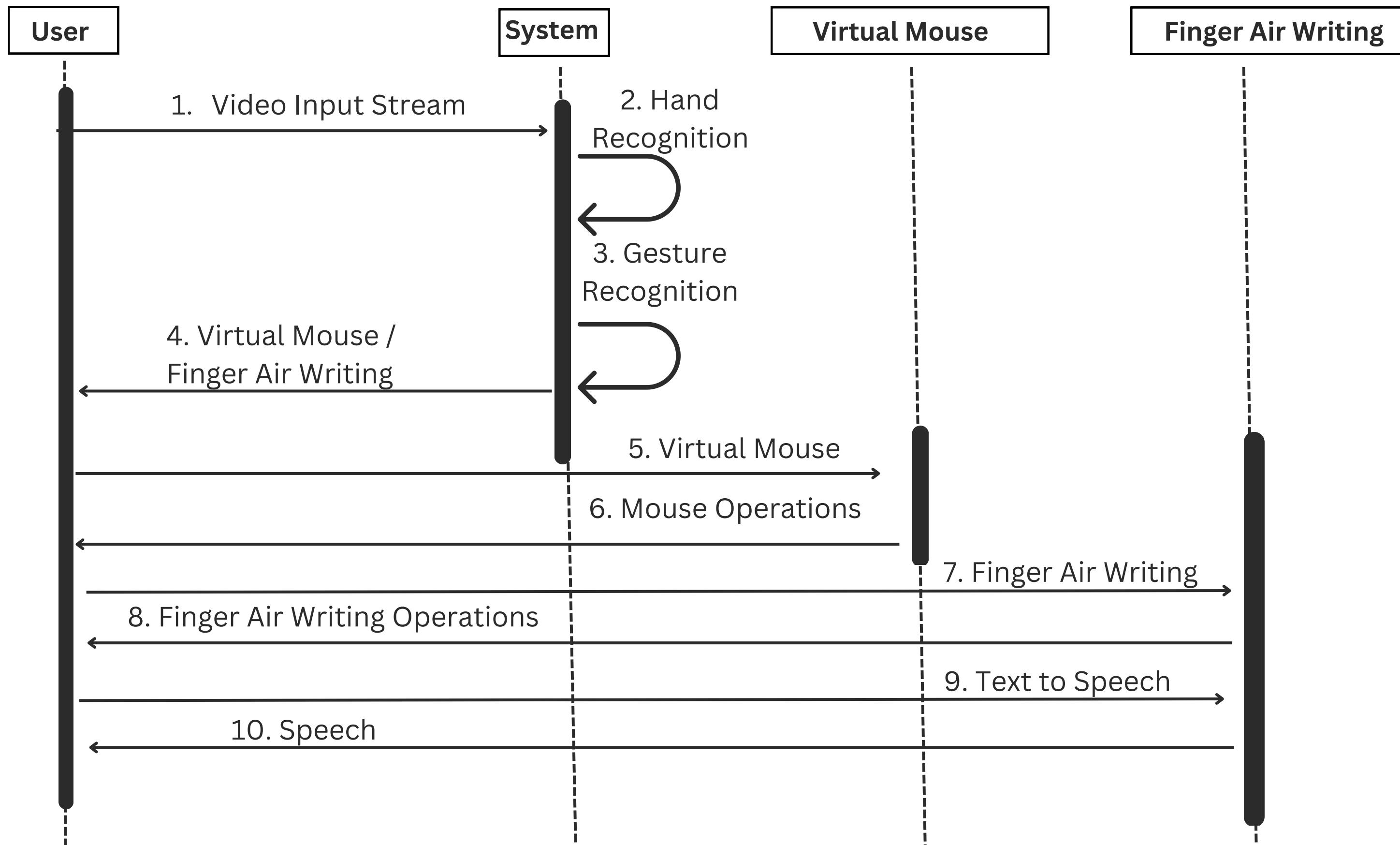
Use Case Diagram



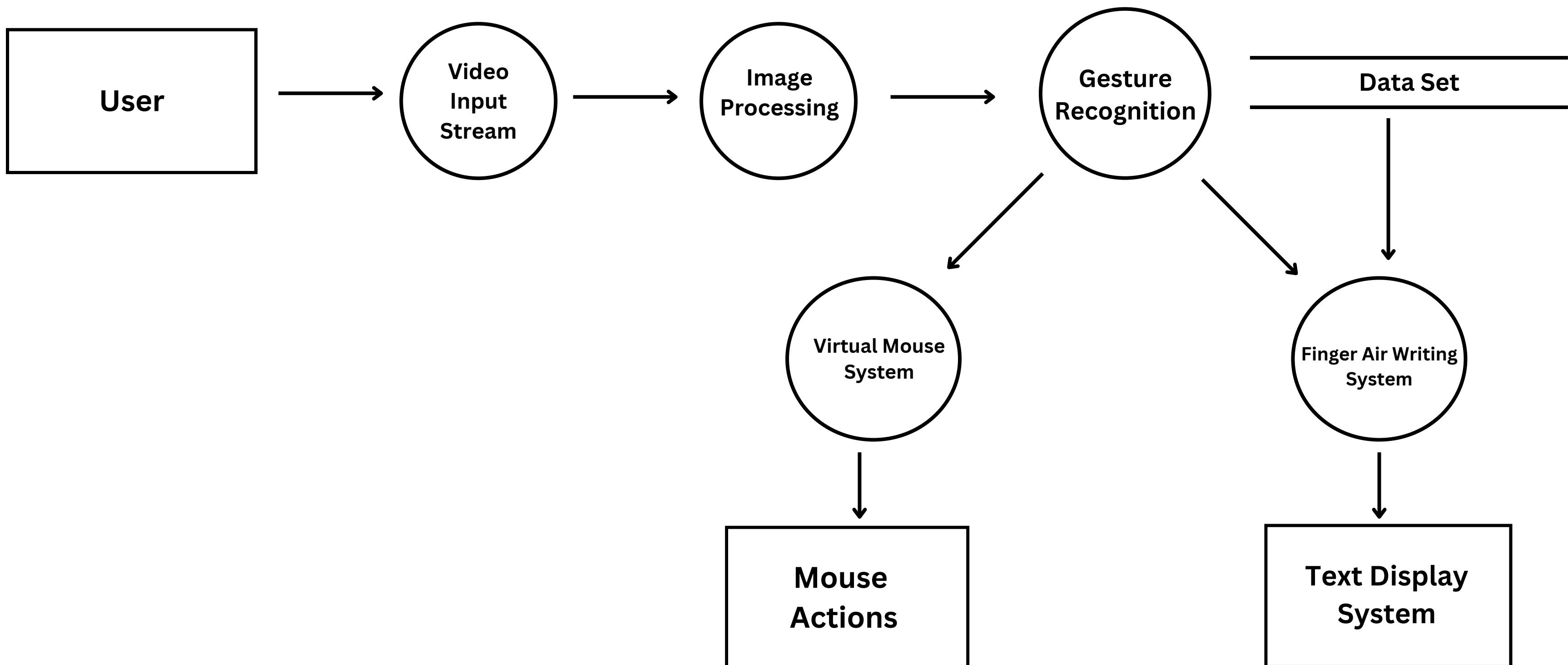
Activity diagram



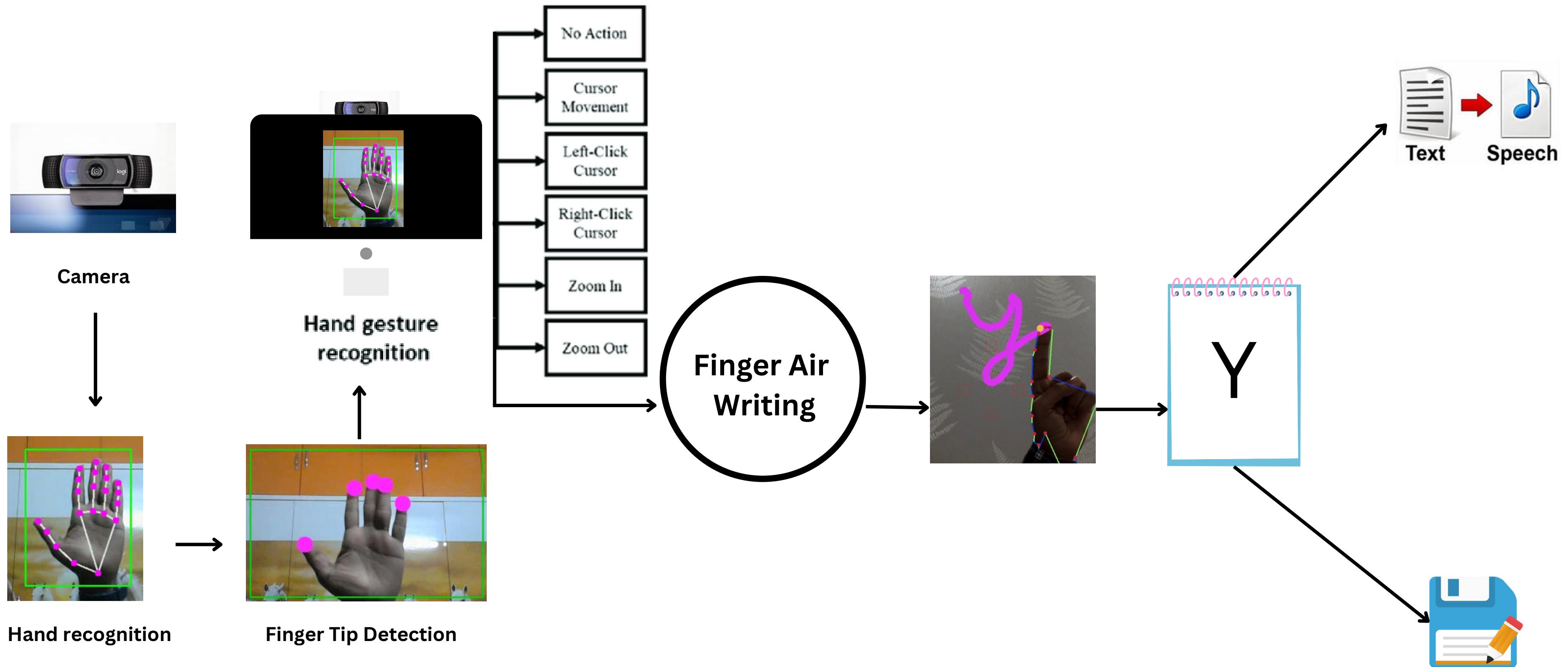
Sequence Diagram



Data Flow Diagram



System Architecture





THANK YOU..

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