

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

Date	04th November 2023
Team ID	Team - 591979
Project Name	ASL - Alphabet Image Recognition
Maximum Marks	4 Marks
Team members	Pujyam Sathvika, Rishika Krishna Ch

Technical Architecture:

The technical architecture shows the user interface, the integration, and the back end and how they are tied together to make the project.

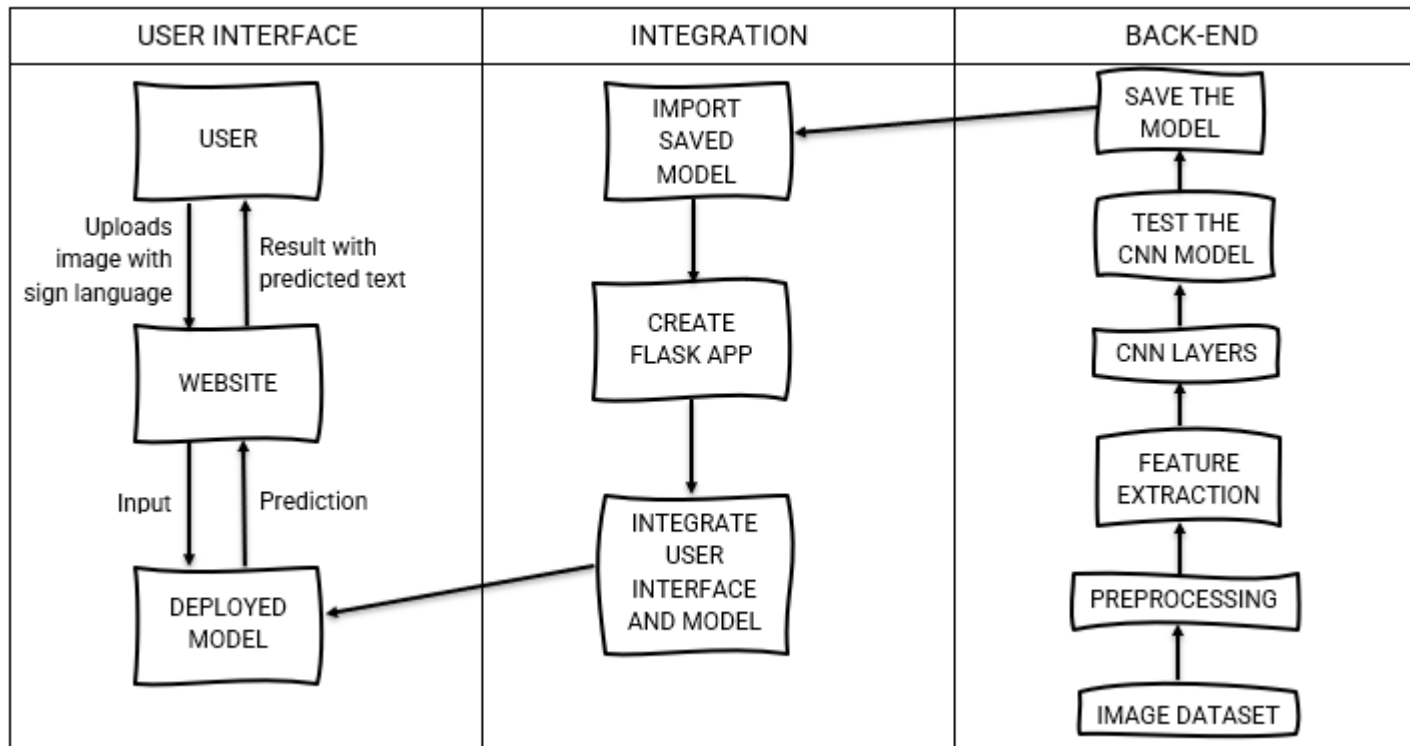


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Front - End	Web interface for user access	HTML, CSS, JavaScript
2.	Back - End	Data processing	Python
3.	ASL recognition	An ML model for ASL sign recognition	(CNN) Convolution Neural Network
4.	User Registration	Enable user registration	Database
5.	Sign Language Database	Database storage for ASL signs	SQL Database
6.	Framework	To create website and integrate it with CNN model	Flask with python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open source Frameworks	The open source frameworks used	Flask
2.	Availability	Ensures the application is available	Python, Flask
3.	Security	Ensures the application is secure	Flask, Python