

Project Design Phase-I
Solution Architecture

Date	4 November 2023
Team ID	592141
Project Name	ASL -Alphabet Image Recognition
Maximum Marks	4 marks

Solution Architecture:

Solution Architecture for ASL – Alphabet Image Recognition

- Data Collection
 - Collect a diverse dataset of ASL alphabet images.
- Data Preprocessing
 - Preprocess the images to ensure uniformity and reduce noise
- Model Selection
 - Convolutional Neural Networks (CNNs) are commonly used for this task.
- Data Splitting (Training and testing)
 - Split the dataset into training and test sets.
- User Interface
 - User-friendly interface for users to interact with the ASL alphabet image recognition system.
- Accuracy metrics

Solution Architecture Diagram:

