

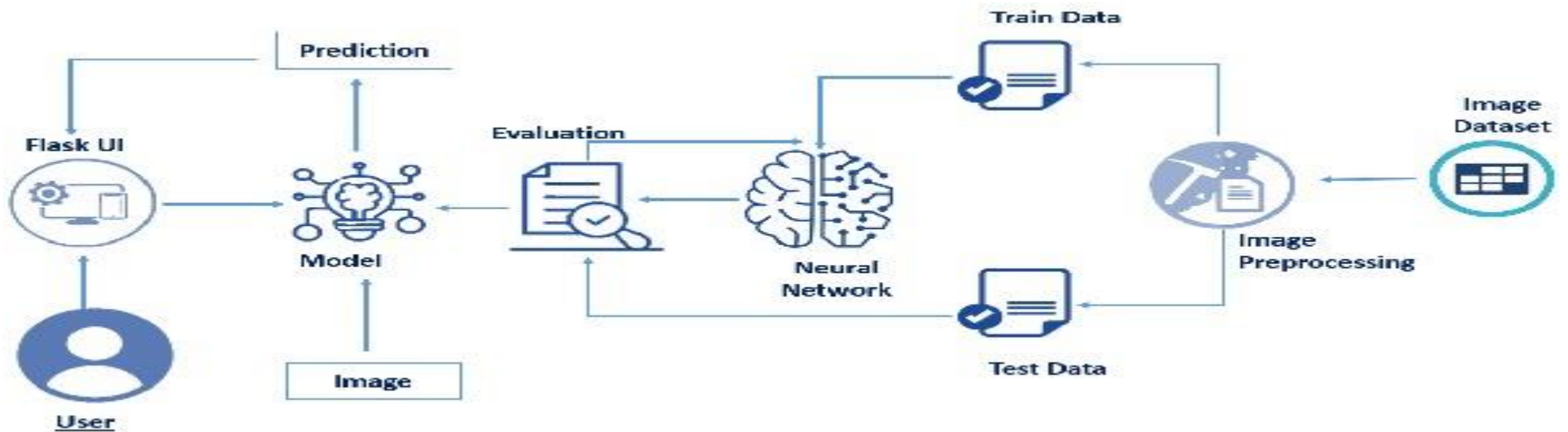
**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	09October 2022
Team ID	PNT2022TMID01231
Project Name	Project - Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

**Example: Order processing during pandemics for offline mode**



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interface that allows you to do interactions with systems via graphical input and audio.	Python.
2.	Application Logic	Logic for a process in the application	Java / Python
3.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
4.	Cloud Database	Database Service on Cloud	IBM Cloudant
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Machine Learning Model	CNN(Convolutional Neural Network processes these images and identifies them on the basis of certain features)	Object Recognition Model.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python flask
2.	Security Implementations	Mail id and Password	Encryptions
3.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Image recognition and real time captioning
4.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Deep Learning