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

Date	**15 october 2022**
Project Name	**Project – Real time communication using AI forspecially abled**
Team ID	**PNT2022TMID19999**
Maximum Marks	**4 Marks**

Technical Architecture:

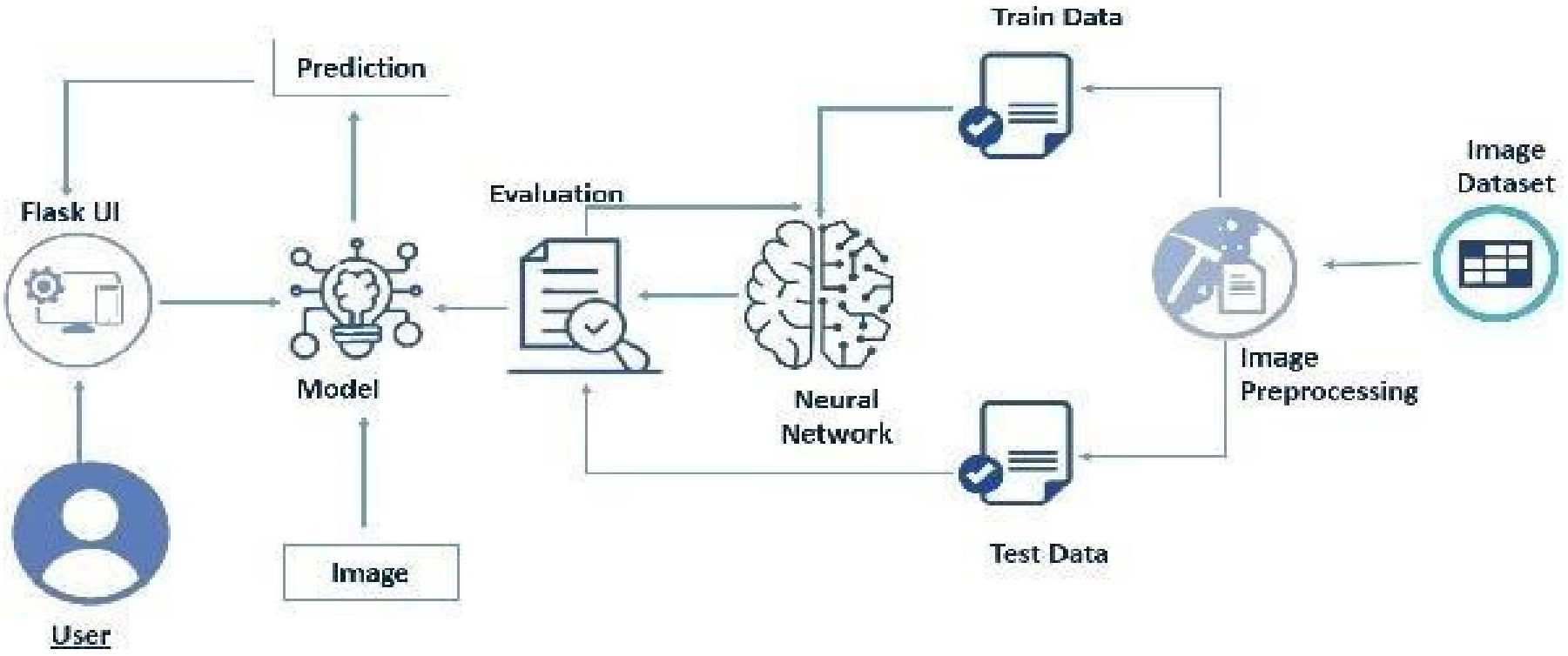

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How client connects with application for example Web UI, Portable Application, Chatbot and so forth.	HTML, CSS, Angular Js / React Js etc.
2.	Application Logic-1	It manages assortment of structures, libraries and upholds expected to foster the task.	Java / Python
3.	Application Logic-2	Helps in changing over human voice into composed words, In basic it is utilized to switch discourse over completely to text.	IBM Watson STT service
4.	Application Logic-3	Gives quick ,reliable and exact responses during the execution period of the undertaking.	IBM Watson Assistant
5.	Database	It very well may be mathematical, unmitigated or time-series information.	MySQL, etc.
6.	Cloud Database	Empowers the client to utilize have information base without purchasing the extra equipment.	IBM DB2, etc.
7.	File Storage	Document capacity ought to be profoundly adaptable, versatile and successful.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Used to get to the data in the cloud.	IBM Weather API, etc.
9.	External API-2	Used to get to the data for information driven navigation.	Aadhar API, etc.
10.	Machine Learning Model	AI Model arrangements with different necessary calculations for the execution.	Real time communication using AI for specially abled
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Install the windows version and execute the installer Select APPACHE to install web server	Cloud Foundry, Kubernetes, etc.

		Cloud Server Configuration : This server deals with the additional storage	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	**The systems utilized are.**	Tensor flow, RNN, PyTorch,Caffle 2
2.	Security Implementations	**The security/access controls executed, utilization of firewalls and so on.**	Prevent and Respond
3.	Scalable Architecture	**the adaptability of engineering (3 level, Microservices)**	Data , operate at size, speedand complexity
4.	Availability	**the accessibility of use (for example utilization of burden balancers, appropriated servers and so on.)**	Image and facial recognition, text summarization, real time captioning
5.	Performance	**Plan** thou**g**ht fo**r** the **p**resentation of the a**pplic**ation **(**numb**e**r of so**l**icitations **p**er sec, ut**ili**zation of **S**tore, ut**ili**zation of C**dn**'s) a**nd** so o**n**.	Full and effective participation , accessibility