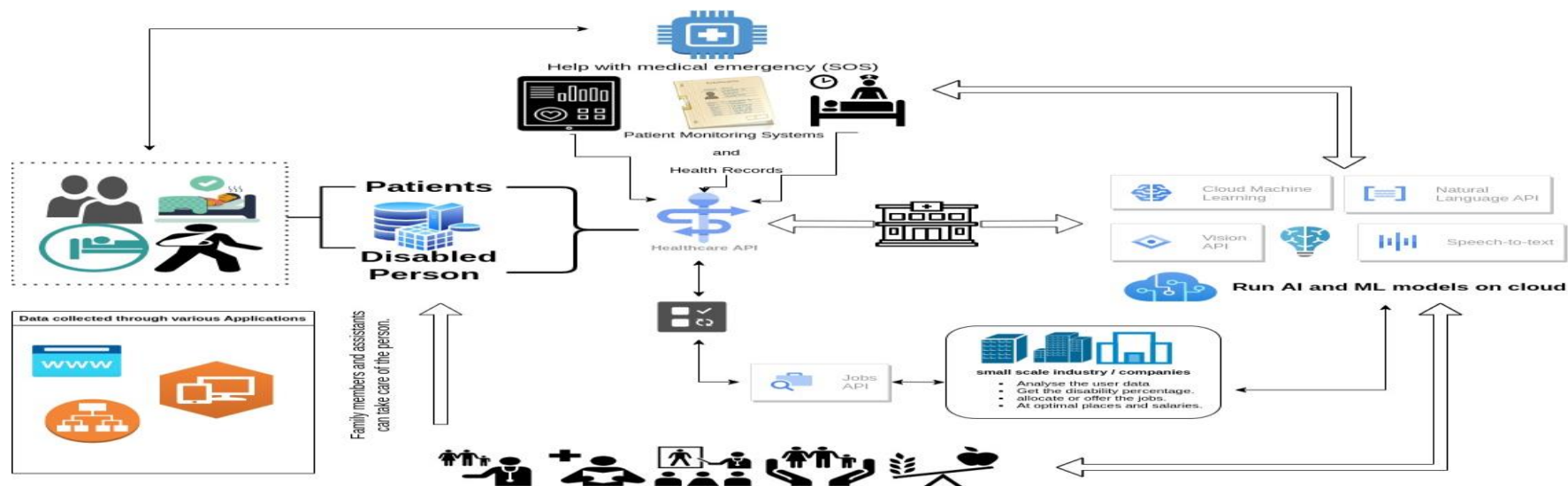


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID48097
Project Name	Project – Real Time Communication Using 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



**REAL TIME COMMUNICATION USING AI FOR SPECIALLY ABLED.**

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

SI.No	Component	Description	Technology
1.	User Interface	User gets interact through chat bot, mobile apps.	NLP-NATURAL LANGUAGE PROCESSING.
2.	Application Logic-1	Building model AL and ML models.	Python
3.	Application Logic-2	Create SOS to help them during emergency time.	MAIL,OTP
4.	Application Logic-3	To convert an image of text into a machine-readable text format.	OCR- Optical character recognition.
5.	Database	Relational Database to store their records.	MySQL.
6.	Cloud Database	Cloud machine learning to store the data in online.	IBM DB2, IBM Cloudant.
7.	File Storage	8 to 16 GB of RAM is needed to store the data.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Helps specially abled person to track their emotion.	Emotional API.
9.	External API-2	Save the medical records for the specially abled person.	Healthcare API
10.	Machine Learning Model	Trained the set of data and to predict the future value.	Object Recognition Model, classification model, image processing, regression model.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration : SAAS ,PASS,LAAS	Local, Cloud Foundry.

**Table-2: Application Characteristics:**

<b>Sl.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	Tensor flow. RNN.	Python and Tensor flow
2.	Security Implementations	It suggests data security concerns by ensuring solid access control and multi factor authentication.	Cloud Security Alliance
3.	Scalable Architecture	Decision making based on patient situation and localization.	Testing Automation.
4.	Availability	Better and fast prediction than people.	Machine learning.
5.	Performance	Helps the customer to get medical assist and to get jobs notification.	AI, M I, Deep learning.