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

Date	15 October 2022
Team ID	PNT2022TMID37801
Project Name	Project - Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence.
Maximum Marks	4 Marks

Technical Architecture:

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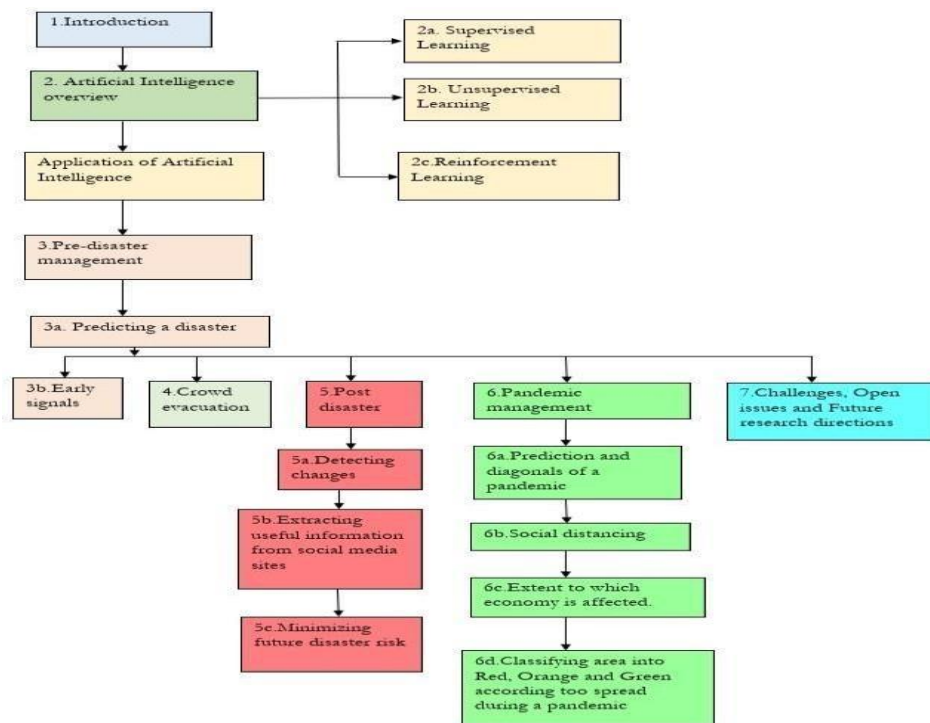

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Mobile App ,etc.	NLP ,CNN ,Deep Learning, etc.
2.	Application Logic-1	Logic for a process in the application	Python-flask
3.	Application Logic-2	Logic for a process in the application	IBM Watson Assistant ,IBM Cloud
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	Machine Learning, Deep Learning
6.	Cloud Database	Database Service on Cloud	IBM Cloudant DB

7.	File Storage	File storage requirements	IBM Watson Studio ,IBM Cloud
8.	External API-1	Purpose of External API used in the application	IBMWeather API etc.
9.	External API-2	Purpose of External API used in the application	IBM Cloud etc.
10.	Convolutional neural network	Purpose of Convolutional neural network	Image Recognition, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	With the goal to facilitate evaluation and mitigation of the risks from natural hazards, the Natural Hazards Engineering Research Infrastructure's Computational Modeling.	Technology of neural network
2.	Scalable Architecture	Disaster damages are measured involves examining the number of fatalities, of injuries, of people affected.	Technology used is AI
3.	Availability	It can be available at the any time and we can access during disasters.	Technology used is CNN

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