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

Date	21 October 2022	
Team ID	PNT2022TMID47540	
Project Name	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 table 1 & table 2

Analyze the current location and indicate Alerts:

inture state IBM CLOUD

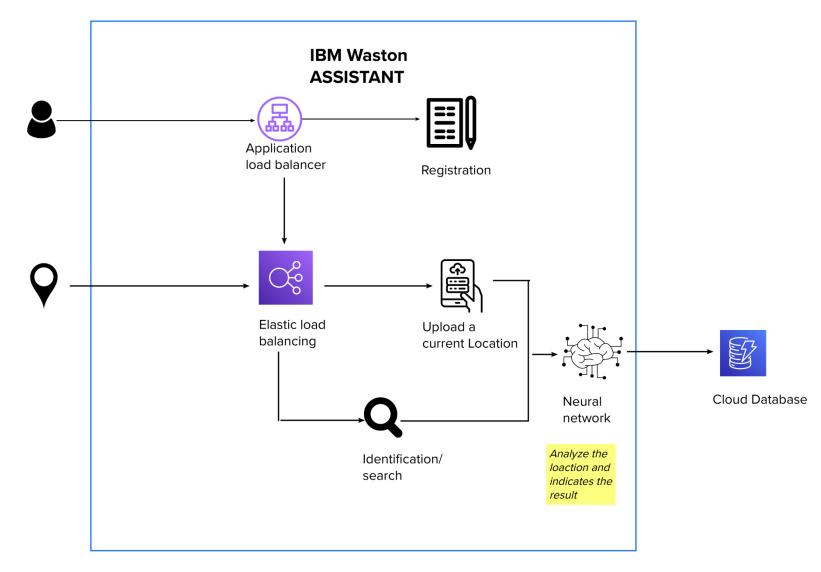


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript,WSDL,SOAP
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson Assistant
4.	Application Logic-3	Logic for a process in the application	NLP
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant .
7.	File Storage	File storage requirements	Local Filesystem
8.	External API-1	Purpose of External API used in the application	Image API
9.	External API-2	Purpose of External API used in the application	REST API
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, Image Recognition Model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local Server configuration, IBM cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
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1.	Open-Source Frameworks	List the open-source frameworks used	Jupyter
2.	Security Implementations	List all the security / access controls implemented,	Firewall, encryption and decryption,IAM
		use of firewalls etc.	Controls ,OWASP
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,	3 – tier architecture(user-IBM cloud-
		Micro-services)	admin)
4.	Availability	Justify the availability of application (e.g. use of	Elastic load balancer ,Application load
		load balancers, distributed servers etc.)	balancer
5.	Performance	Design consideration for the performance of the	Use of CDN's ,Use of catch ,use of
		application (number of requests per sec, use of	requests per sec.
		Cache, use of CDN's) etc.	