Project Design Phase-II Technology stack

Date	13 November 2023	
Team ID	Team-591562	
Project Name	WCE Colon Curated Disease Classification using Deep Learning	
Maximum Marks	4 Marks	

Technical Architecture:

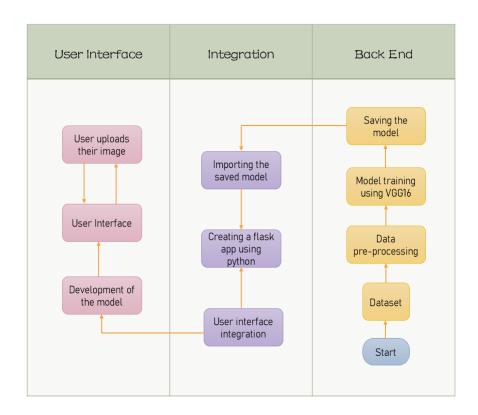


Table – 1: Components & Technology:

S.No	Component	Description	Technology
1.	Data collection sensors	How user interacts with	HTML, CSS, JavaScript /
	(not sure)	application e.g.	Angular Js /
		Web UI, Mobile App,	React Js etc.
		Chatbot etc.	
2.	Application Logic-1	Logic for a process in the	Java / Python
3.	Application Logic-2	application Logic for a process in the	IBM Watson STT service
Э.	Application Logic-2	application	ibivi watsoii 311 service
4.	Application Logic-3	Logic for a process in the	IBM Watson Assistant
		application	
5.	Database	Data Type, Configurations	MySQL, NoSQL, etc.
		etc.	
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
			etc.
7.	File Storage	File storage requirements	IBM Block Storage or
			Other Storage
			Service or Local
			Filesystem
8.	External API-1	Purpose of External API	IBM Weather API, etc.
		used in the application	
9.	External API-2	Purpose of External API	Aadhar API, etc.
		used in the application	
10.	Machine Learning Model	Purpose of Machine	Object Recognition
		Learning Model	Model, etc.
11.	Infrastructure	Application Deployment	Local, Cloud Foundry,
		on Local System / Cloud	Kubernetes, etc.
		Local Server Configuration:	
		Cloud Server Configuration	
		:	

Table – 2: Application characteristics:

S.No	Characteristics	Description	Technology
1.	Open – Source frameworks	List the open-source	Technology of
		frameworks used	Opensource framework
2.	Security implementations	List all the security / access	e.g. SHA-256, Encryptions,
		controls implemented,	IAM
		use of firewalls etc.	Controls, OWASP etc.

3.	Scalable architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-

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