Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	31 January 3035
Team ID	LTVIP2025TMID52150
Project Name	Cosmetic Insights: Navigating Cosmetics Trends and Consumer Insights with Tableau
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

Example: Order processing during pandemics for offline mode

Reference: https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/

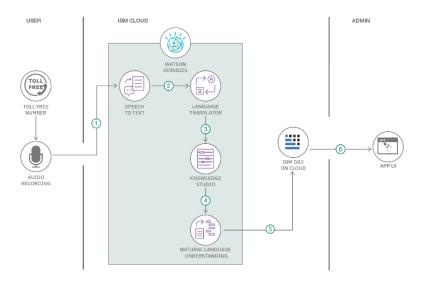


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g.	HTML, CSS, JavaScript / Angular Js / React Js etc.
		Web UI, Mobile App, Chatbot etc.	
2.	Application Logic-	Logic for a process in the application	Java / Python
3.	Application Logic-	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, 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 used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.

11.	Infrastructure	Application Deployment	Local, Cloud Foundry,
	(Server / Cloud)	on Local System / Cloud	Kubernetes, etc.
		Local Server Configuration: Cloud Server	
		Configuration :	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source	List the open-source frameworks	Technology of
	Frameworks	used	Opensource
			framework
2.	Security	List all the security / access	e.g. SHA-256,
	Implementations	controls implemented, use of	Encryptions, IAM
		firewalls etc.	Controls, OWASP
			etc.
3.	Scalable	Justify the scalability of	Technology used
	Architecture	architecture (3 – tier, Micro-	
		services)	
4.	Availability	Justify the availability of	Technology used
		application (e.g. use of load	
		balancers, distributed servers	
		etc.)	
5.	Performance	Design consideration for the	Technology used
		performance of the application	
		(number of requests per sec, use	
		of Cache, use of CDN's) etc.	

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-2d20c9fda90d