

Project Design Phase- IITechnologyStack(Architecture&Stack)

Date	20 October 2022
TeamID	PNT2022TMID46377
ProjectName	Skill/JobRecommenderApplication
MaximumMarks	4 Marks

TechnicalArchitecture:

TheDeliverableshallincludethearchitecturaldiagramasbelowandtheinformationas perthetable1&table2

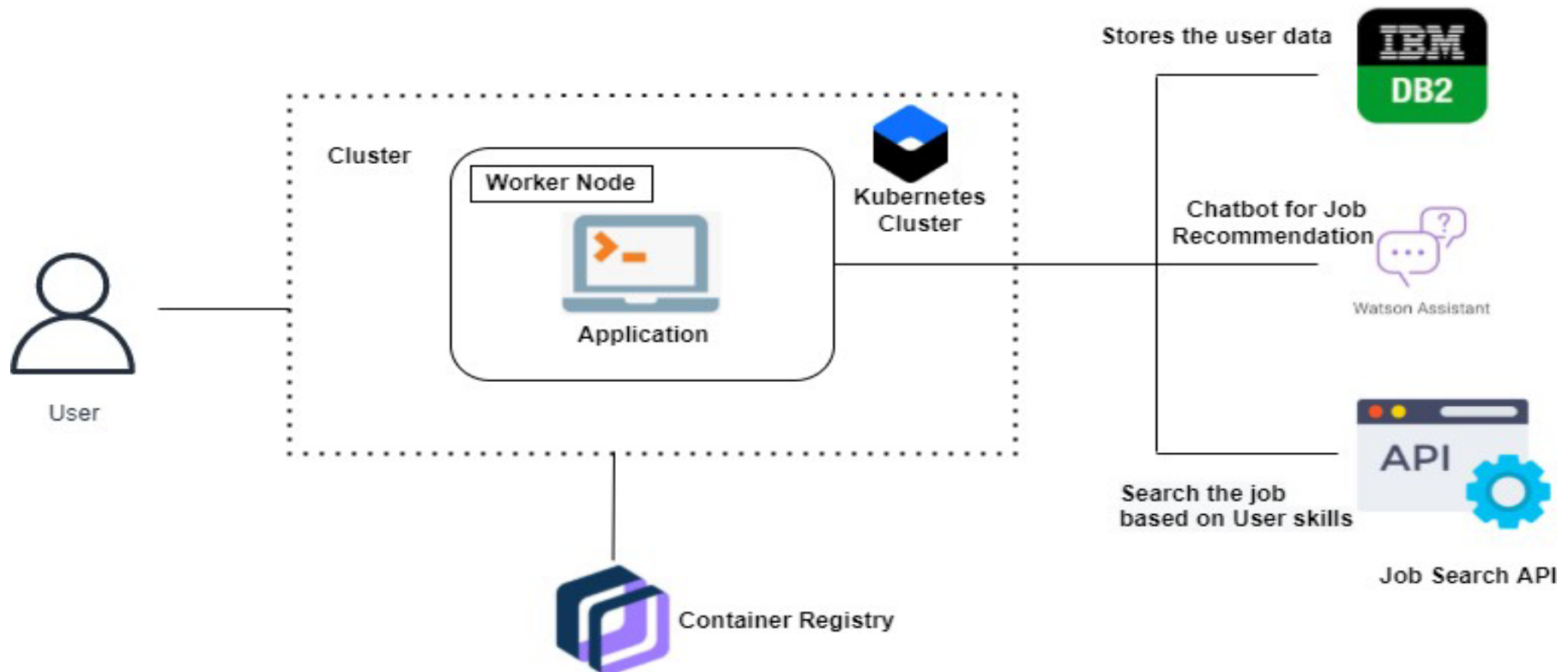


Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	How user interacts with application e.g. WebUI,Mobile App,Chatbotetc.	HTML, CSS, JavaScript / Angular Js /ReactJsetc.
2.	DevelopingInterface	Developingapplicationforthetask	Java /Python
3.	VoiceAssistance	Voicecommandsinsteadoftyping.	IBMWatsonSTTservice
4.	ChatbotAssistance	ConversationalInterface	IBMWatsonAssistant
5.	Database	Data Type,Configurationsetc.	MySQL, NoSQL,etc.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
7.	FileStorage	Filestoragerequirements	IBM Block Storage or Other StorageServiceorLocalFilesystem
8.	MachineLearningModel	PurposeofMachine LearningModel	ObjectRecognitionModel, etc.
9.	Infrastructure(Server/Cloud)	Application Deployment on Local System / CloudLocalServerConfiguration: CloudServerConfiguration:	Local,CloudFoundry,Kubernetes, etc.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Listtheopen-sourceframeworksused	TechnologyofOpensourceframework
2.	SecurityImplementations	Listallthesecurity/accesscontrolsimplemented,us eoffirewallsetc.	e.g. SHA-256, Encryptions, IAMControls,OWASP etc.
3.	ScalableArchitecture	Justify the scalability of architecture (3 – tier, Micro -services)	ArtificialIntelligence(AI)
4.	Availability	Justifytheavailabilityofapplication(e.g.useofload balancers,distributedserversetc.)	RAID(redundant arrayofindependent disks)

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	DRAM or flash memory