

Project Design Phase- IITechnologyStack(Architecture&Stack)

Date	17October2022
TeamID	PNT2022TMID46377
ProjectName	Skill/ JobRecommender
MaximumMarks	4 Marks

TechnicalArchitecture:

The Deliverables all include the architectural diagrams below and the information as per the table1&table2

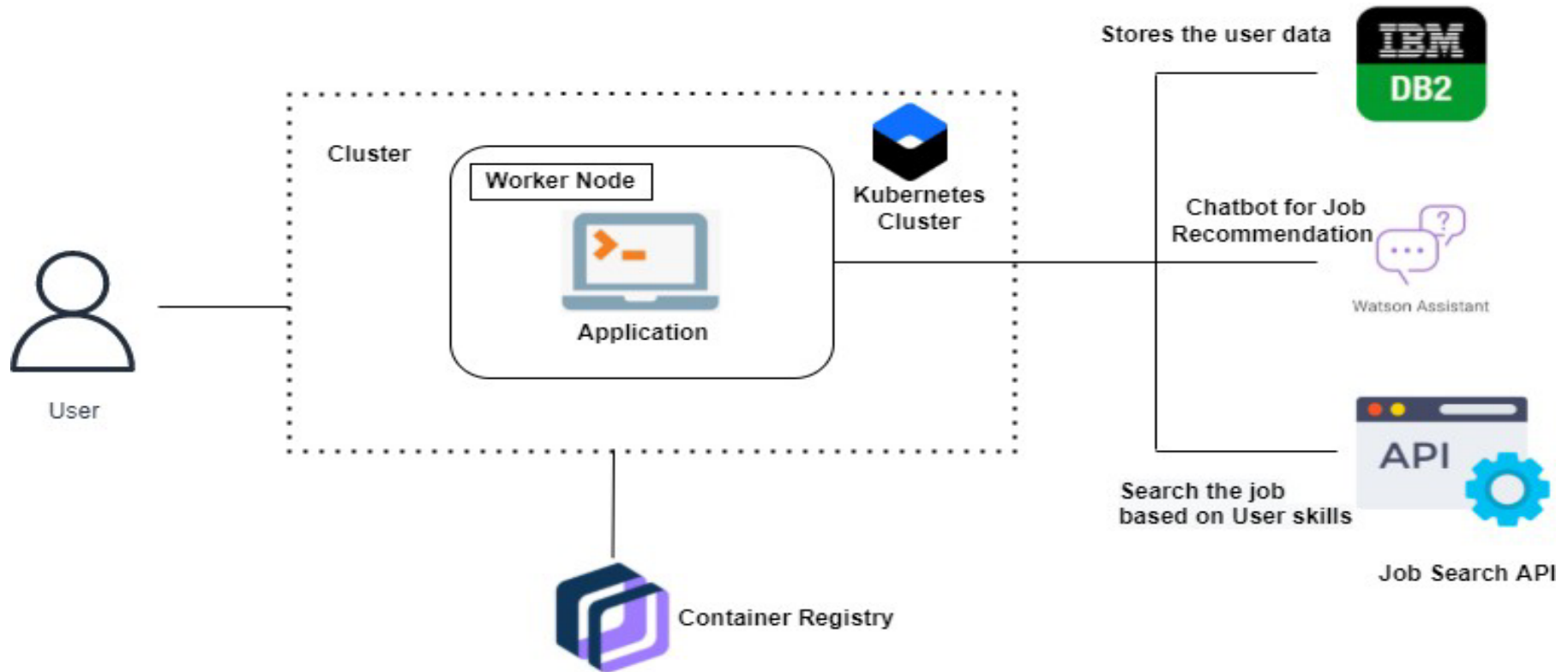


Table-1:Components&Technologies:

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.	ApplicationLogic-1	Logic for a process in the application	JPython
3.	ApplicationLogic-2	Logic for a process in the application	IBMWatsonSTTservice
4.	ApplicationLogic-3	Logic for a process in the application	IBMWatsonAssistant
5.	Database	Data Type,Configurationsetc.	MySQL, NoSQL,etc.
6.	CloudDatabase	Database Service on Cloud	IBMDB2, IBMCloudantetc.
7.	FileStorage	Filestorage requirements	IBM Block Storage or Other StorageServiceorLocalFilesystem
8.	ExternalAPI-1	Purpose of External API used in the application	Job portal API,etc.
9.	ExternalAPI-2	Purpose of External API used in the application	Job vaccancy API,etc.
10.	MachineLearningModel	Purpose of Machine LearningModel	ObjectRecognitionModel, etc.
11.	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.	Security Implementations	List all the security / access controls implemented,useoffirewallsetc.	e.g. SHA-256, Encryptions, IAMControls,OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,Micro-services)	J2EEinfrastructure
4.	Availability	Justify the availability of application (e.g. use ofloadbalancers, distributedserversetc.)	IBMLoad balancer
5.	Performance	Design consideration for the performance of theapplication(number ofrequests persec,useof Cache,useofCDN's)etc.	ContentDeliveryNetwork