Project Design Phase-
IITechnologyStack(Architecture&Stack)

Date	15October2022
TeamID	**PNT2022TMID31835**
ProjectName	**SKILLANDJOBRECOMMENDERAPPLICATION**
MaximumMarks	4 Marks

TechnicalArchitecture:

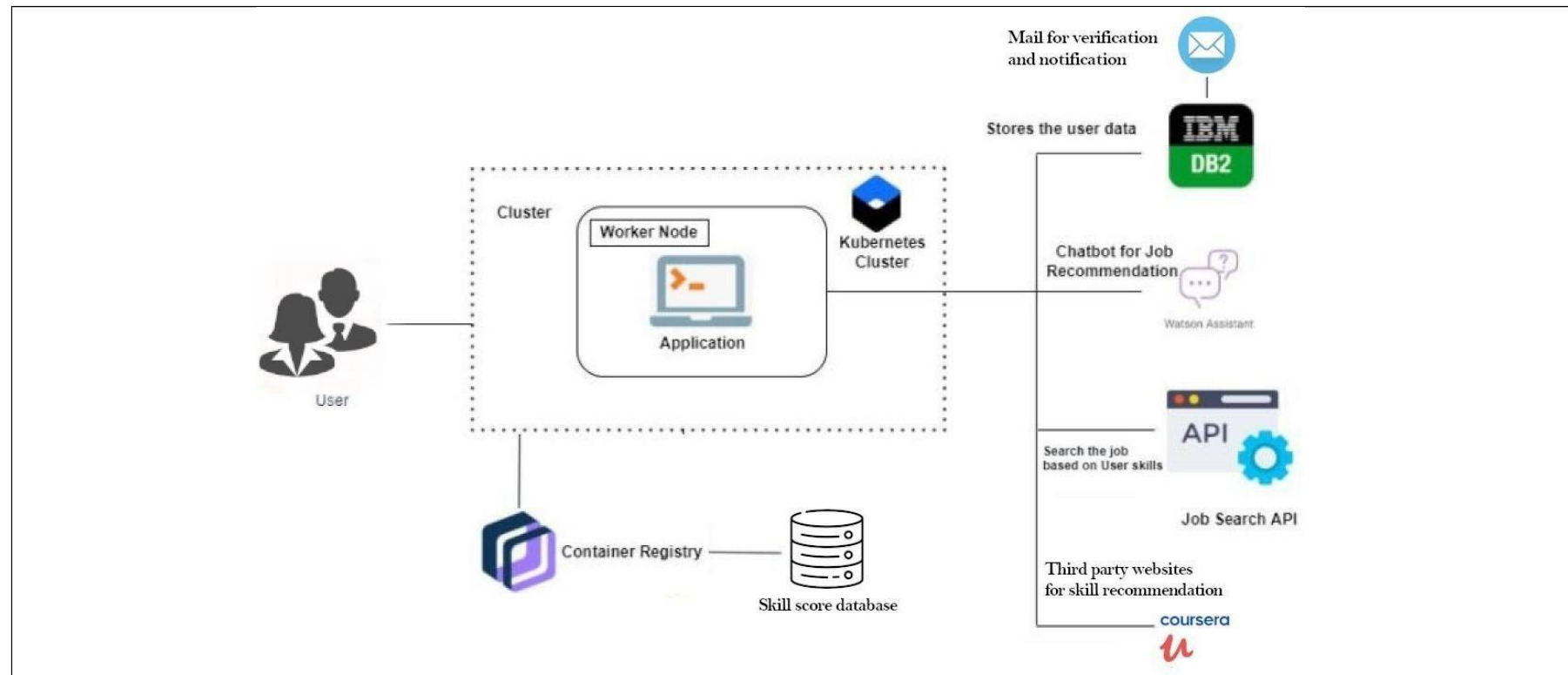TheDeliverable shallincludethearchitecturaldiagramasbelowandtheinformationasperthetable1&table2

Table-1: Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	The user can interact with our application with the help ofWebUI,Mobile App,Chatbotetc.	HTML,CSS,JavaScript/AngularJs/ReactJsetc.
2.	Application Logic-1	Theusershouldpre-registerinourwebappinordertologin.	Java/Python
3.	Application Logic-2	Logicforaprocessintheapplication.	IBMWatsonSTT service
4.	Database	Thedatatypeusedinourapplication.	MySQL,NoSQL,etc.
5.	Cloud Database	Theuser'sdatawillbestored inthedatabase	IBMDB2,IBMCloudantetc.
6.	FileStorage	Theuser'sextradocumentslikeresume,identificationcardand otherpersonaldetails willbestoredincloudbucket.	IBMBlock StorageorOtherStorageServiceorLocal Filesystem
7.	External API-1	Theusercansearchthejobsbasedontheskillswith thehelpofAPI.	IBMWeather API,etc.
8.	ExternalAPI-2	PurposeofExternalAPIused intheapplication.	Aadhar API, etc.
9.	Machine Learning Model	ImportanceofusingMachinelearning.	ObjectRecognitionModel, etc.
10.	Infrastructure (Server/ Cloud)	ApplicationDeploymentonLocalSystem/Cloud	Local,CloudFoundry,Kubernetes,etc.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Kubernetes	IBMcloudKubernetesservice
2.	SecurityImplementations	Security control - username, password, otherpersonaldetails	Encryption
3.	ScalableArchitecture	Improvedhorizontalscalability	3tierarchitecture
4.	Availability	Useof loadbalancers	Kubernetes
5.	Performance	No. ofusers persec=4	Collaborativefiltering