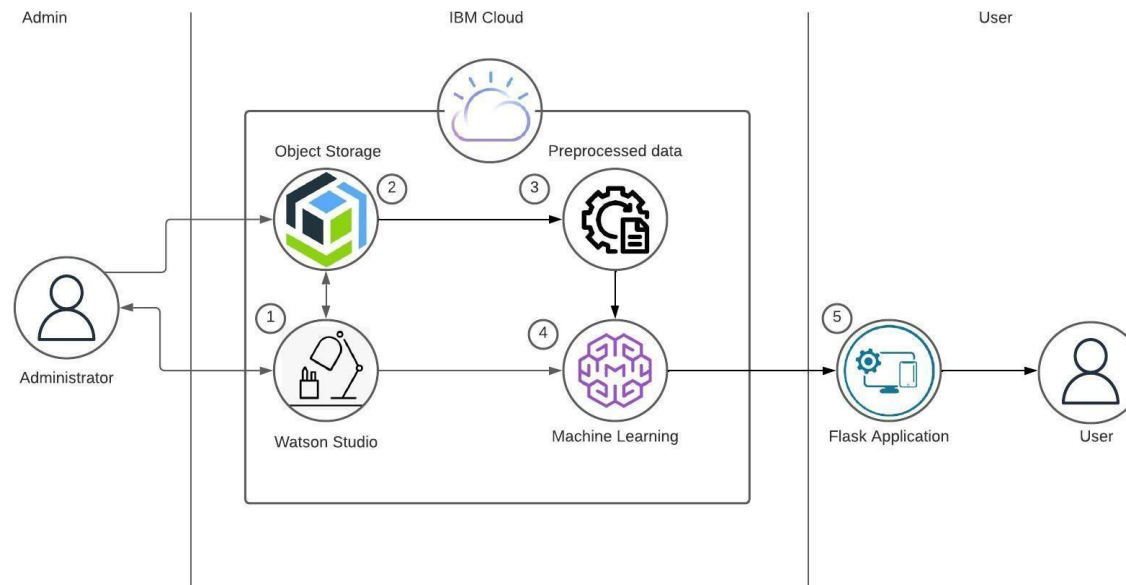


**Project Design Phase-  
II Technology Architecture**

Date	24September2022
TeamID	PNT2022TMID09607
ProjectName	Detecting Parkinson's Disease Using Machine Learning

**Technical Architecture:**

The deliverables shall include the technological stacks as well as the required details in both the tables.



**Table-1:Components&Technologies:**

S.No	Component	Description	Technology
1.	UserInterface	Howtheuserinteractswiththeapplicatione.g. WebUI	HTML,CSS,Pythonflask.
2.	ApplicationLogic-1	RegisterandLoginpage	HTML,CSS,Pythonflask.
3.	ApplicationLogic-2	HomePage	HTML,CSS.
4.	ApplicationLogic-3	Testvitalpage	HTML,CSS,Pythonflask.
5.	Database	DataType,Configurations,etc.	MySQL.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDatabase.
7.	FileStorage	FileStoragerequirements	IBMCloudObjectStorage
8.	ExternalAPI-1	Purpose of External API used intheapplication	IBMAPIConnect.
9.	ExternalAPI-2	Purposeof ExternalAPIusedinthe application	NIL
10	MachineLearningModel	Traintheclassificationmodelusingthe Randomforestclassificationalgorithm.	IBMWatsonStudio.
11	Infrastructure(Server/Cloud)	Application Deployment on LocalSystem/Cloud.	LocalServerConfiguration: LocalSystem. CloudServerConfiguration:IBMWatson

**Table-2:ApplicationCharacteristics:**

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Listtheopen-sourceframeworksused	PythonFlask,JupyterNotebook,Tensorflow, andPythonlibraries.
2.	SecurityImplementations	Listallthesecurity/access controlsimplemented,useoffirewalls,etc.	ThroughPassword,EmailConfirmation.
3.	ScalableArchitecture	Justifythescalabilityofarchitecture(3 –tier,Micro-services)	PythonLibraries.
4.	Availability	Justifytheavailabilityofapplications(e.g.useofload balancers,distributed <b>servers,etc.</b> )	IBMWatsonMachineLearning.
5.	Performance	Design Considerations for the performance oftheapplication(numberofrequestspersec,useof Cache,useofCDNs),etc.	Flask.

