Project Design Phase-II

Technology Architecture

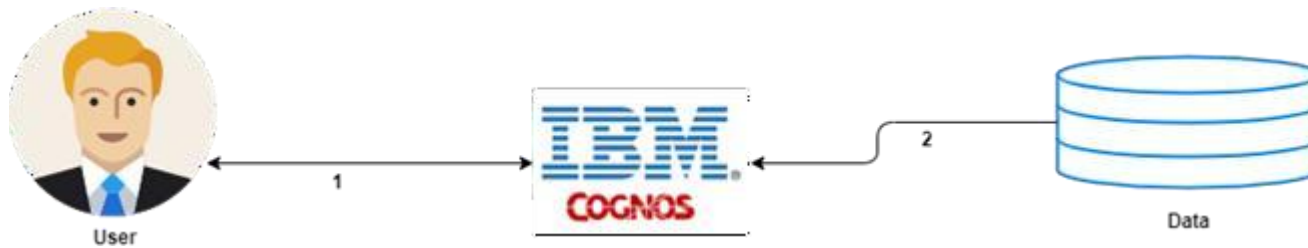| Date	03 October 2022
Team ID	PNT2022TMID45818
Project Name	Project - Corporate employee attrition analytics
Maximum Marks	4 Marks

Technical Architecture:

User → IBM COGNOS → Data

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts using the data analytics platform.	Visualization,python
2.	Application Logic-1	Collecting the required datasets and formating it	excel
3.	Application Logic-2	Analysing the datasets using different techniques of visualization	IBM cognos
4.	Application Logic-3	Training and testing the dataset	python
5.	Cloud Database	Stores and retrieve huge amount of data	IBM Cognos

6.	File Storage	Internal memory	IBM Block Storage or Local Filesystem
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration : IBM cognos	Local, IBM cognos

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open source frameworks provides us to do visualization and train and test our datasets easily	IBM cognos, google colab
2.	Availability	The analytics performed will be available at the cogns platform	Ibm cognos
3.	Performance	Can process n-number of data at a time	Python withits library numpy,pandas