Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID21264
Project Name	Project -Global Sales Data Management
Maximum Marks	4 Marks

Technical Architecture:

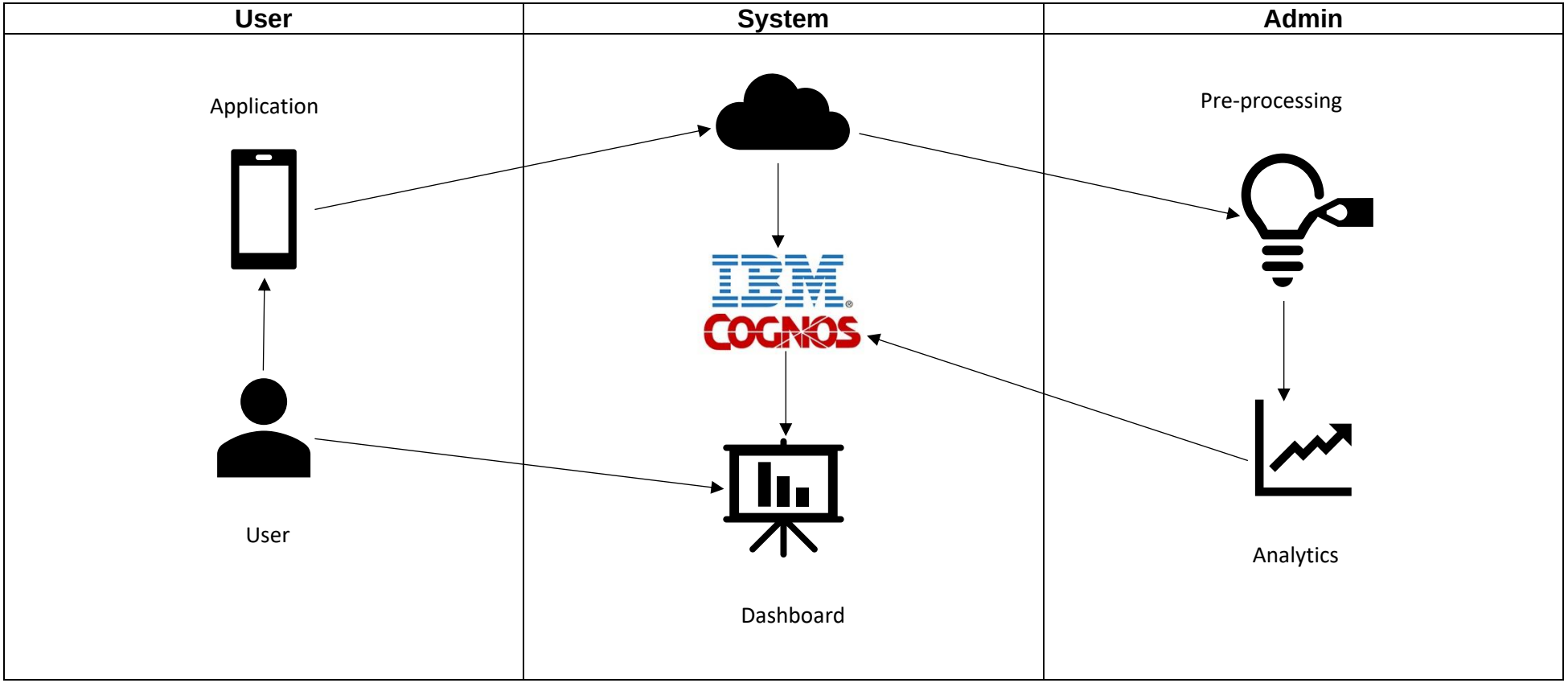

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	IBM Cognos
2.	Cloud	Data is uploaded in cloud through interface	IBM Cloud
3.	Data Pre-processing	Cleaning and processing Dataset	IBM Cognos, IBM Cloud
4.	Data Exploration	Uploaded dataset is explored to identify patterns	IBM Cognos
5.	Data Visualization	Visualization charts	IBM Cognos
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	Dashboard	User logs in to view the visualization	IBM Cognos Dashboard

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Cognos,IBM Cloud,Jupyter Notebook
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Active Directory
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	IBM Cloud
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Cognos business intelligence server
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc.	IBM Cognos, Performance management hub