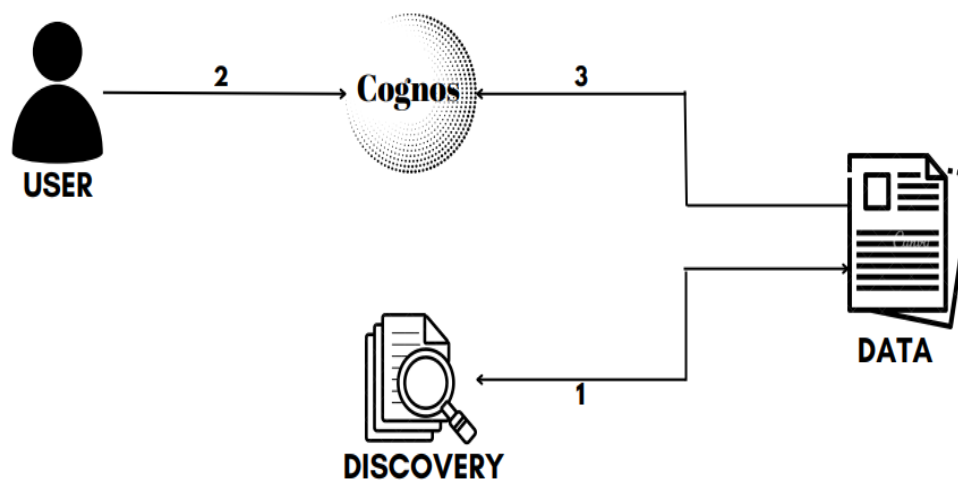


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03October 2022
Team ID	PNT2022TMID01297
Project Name	Global Sales Data Analytics
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.	Application Logic-1	Logic for a process in the application	IBM Cloud
3.	Application Logic-2	Logic for a process in the application	IBM Cognos Analytics
4.	Application Logic-3	Logic for a process in the application	IBM Cognos Analytics
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Cognos Analytics
9.	External API-2	Purpose of External API used in the application	Google Colab
10.	Machine Learning Model	Purpose of Machine Learning Model	Predictive Analysis Model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	List the open-source frameworks used	Google Colab
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)	3.0 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.	Performance Management Hub