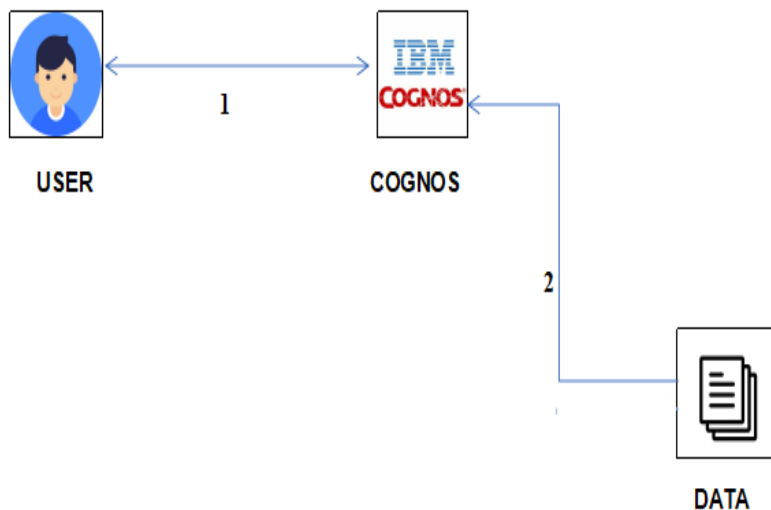


Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID47431
Project Name	Project -Estimate the Crop Yield using Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

- Include all the processes (As an application logic / Technology Block)
- Provide infrastructural demarcation (Local / Cloud)
- Indicate external interfaces (third party API's etc.)
- Indicate Data Storage components / services
- Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	DASHBOARD	IBM Cognos
2.	Database	Data Type, Configurations etc.	IBM Cognos
3.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud.
4.	File Storage	File storage requirements	IBM Block Storage
5.	Data Analytic Model	Purpose of Data Analytic Model	IBM Cognos
6.	Infrastructure (Server / Cloud)	Cloud Cloud Server	IBM Cognos

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open Source framework
2.	Availability	Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	IBM Cognos
3.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cognos