PROJECT DESIGN PHASE-ll

TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	20 October 2022
Team ID	PNT2022TMID20403
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	4 Marks

Technical Architecture:

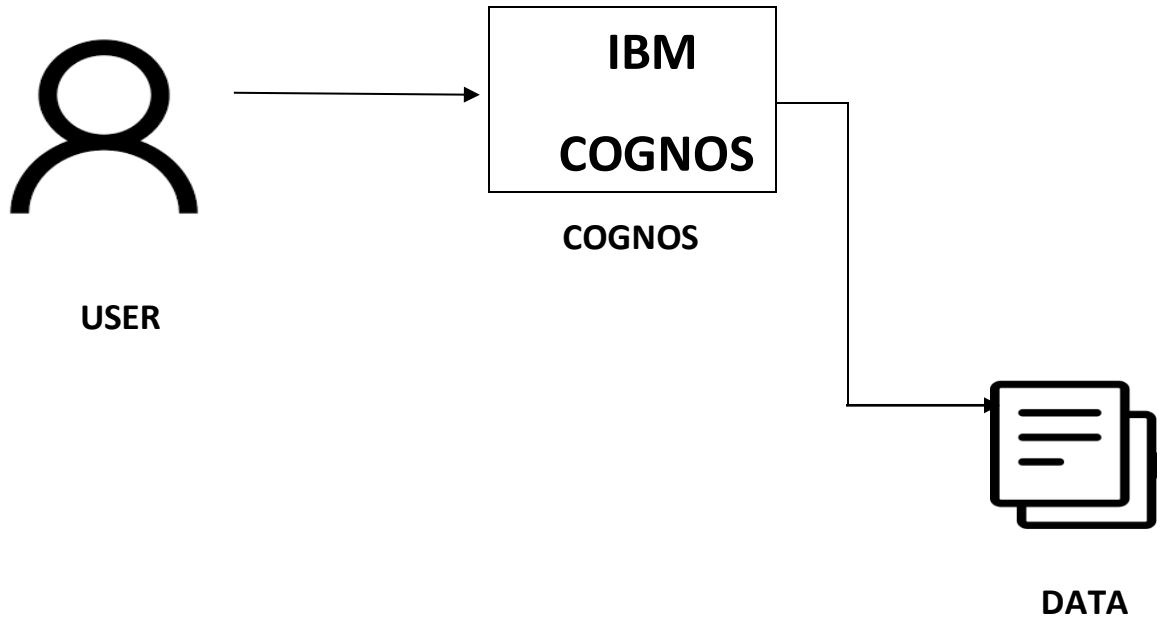

Table-1 : Technologies

S.No	Components	Description	Technology
1.	Tool used	The tool which is used to predict	IBM Cognos analytics
2.	Application login 1	Installation of software/create account	Ibm cloud, ibm cognos analytics

S.NO	Components	Description	Technology
3.	Application logic-1	Using the application's admin login information.	IBM Watson STT Service.
4.	Application logic-2	Logging into the application as a merchant.	IBM Watson Assistant.
5.	Database	A database contains information regarding the crops.	Spreadsheet.
6.	Cloud Database	To store data, IBM Watson cloud is employed.	IBM Cloud etc.
7.	External API-1	Use of an external API and its intended use.	e.g., IBM Weather API.
8.	Machine Learning Model	A machine learning model's intended use.	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Local Server Configuration for an Application Deployed on a Local System or a Cloud. Local Server Configuration, Cloud Server Configuration.	Local, Cloud Foundry, Kubernetes, etc.

Is the system robust?

Yes, the data analysis software that is being built is reliable.

Is it highly modifiable?

Yes, the system is user-friendly and open to developers' modifications and improvements.

Is it scalable?

Yes, the system is flexible and can be expanded as needed.

Is it buildable?

It is possible to develop on a tight budget.