

## Project Design Phase-I

### Solution Architecture

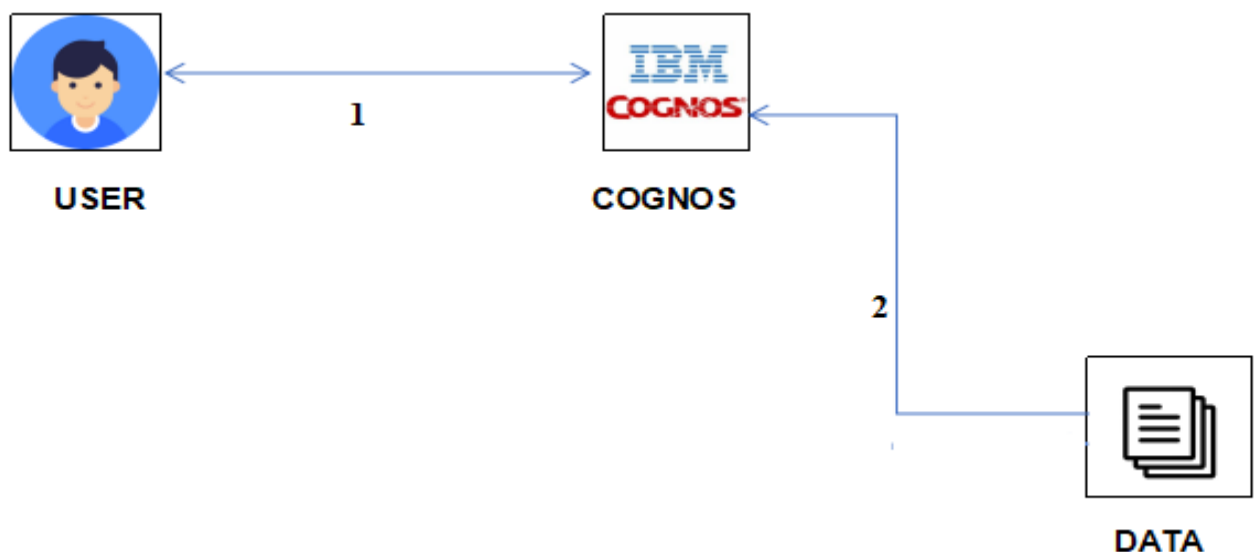
Date	19 October 2022
Team ID	PNT2022TMID27387
Project Name	Estimate the Crop Yield using Data Analytics
Maximum Marks	4 Marks

#### Solution Architecture:

It proposes The analysis of data related to agriculture helps in crop yield prediction, crop health monitoring and other such related activities. Its goals are to:

- It helps farmer and businessmen to monitor the real-time health of the crop which can help the farmer to estimate the missing nutrients in the soil and act accordingly. Many farmers don't understand the real-time situation of soil and as a result, face a lack of production from the harvest.
- Digital tools and data analysis in agriculture are being utilized to scientifically deal with harmful insects.
- The uniqueness of our proposed project is Big data provides farmers granular data on rainfall patterns, water cycles, fertilizer requirements, and more. This enables them to make smart decisions, such as what crops to plant for better profitability and when to harvest. The right decisions ultimately improve farm yields.
- The analysis of data related to agriculture helps in crop yield prediction, crop health monitoring and other such related activities, understand the current nutrient levels of the soil to be able to ascertain which areas require improvement provide in-field analysis in your pocket.

#### Solution Architecture Diagram:



REFERENCE: <https://github.com/omkarbuchade/Smart-agricultural-system#smart-agricultural-system>

