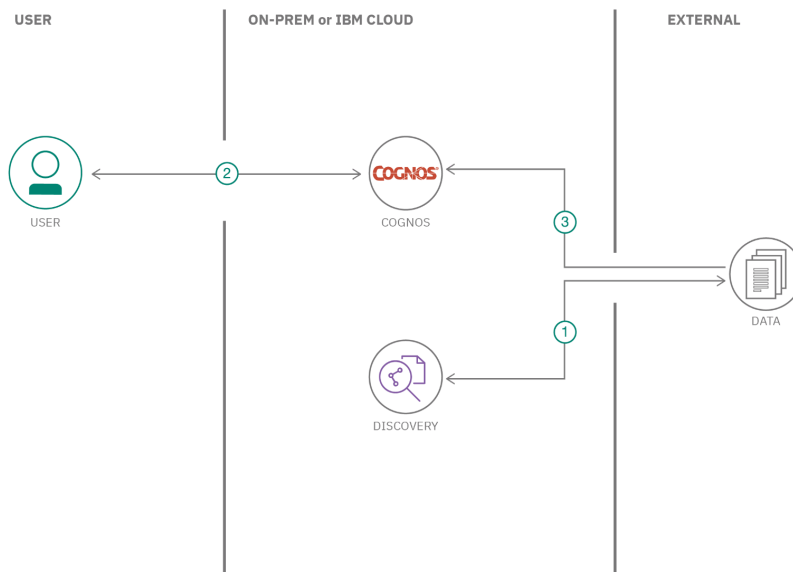


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03 November 2022
Team ID	PNT2022TMID02935
Project Name	Project - Analytics For Hospitals' Health-Care Data
Maximum Marks	4 Marks

**Technical Architecture:**

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



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	Dataset	Contains data of the crop production in India	Kaggle and other open-source dataset platform
2.	Preparing Data	Cleaning the data and preparing the data for visualization	IBM Cognos - Preparation
3.	Data Visualization	Visualization the dataset as different charts and analysing	IBM Cognos - Visualization
4.	Dashboard Creation	Interactive dashboard helps to visualize the data and the length of stay varying with various parameters in an interactive way and users can get more insights through this.	IBM Cognos - Dashboard

5.	Export the work	Export the entire work as PDF, email or by a CDN link through the IBM Cognos platform	IBM Cognos
6.	Prediction	Predict the length of stay of patients using machine learning model	Python,SKLearn

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Kaggle - for dataset	Kaggle
2.	Security Implementations	The security will be handled by the IBM Cognos platform itself	IBM Cognosdefault security
3.	Scalable Architecture	The software is scalable to any exten because it runs on the IBM Cognos platform.	IBM Cloud and IBM Cognos
4.	Availability	All the system resource is available and IBM Cognos platform handles system resource availability	IBM Cloud and IBM Cognos
5.	Performance	The performance of the interactive dashboard is stable, high and can handle multiple requests	IBM Cloud and IBM Cognos