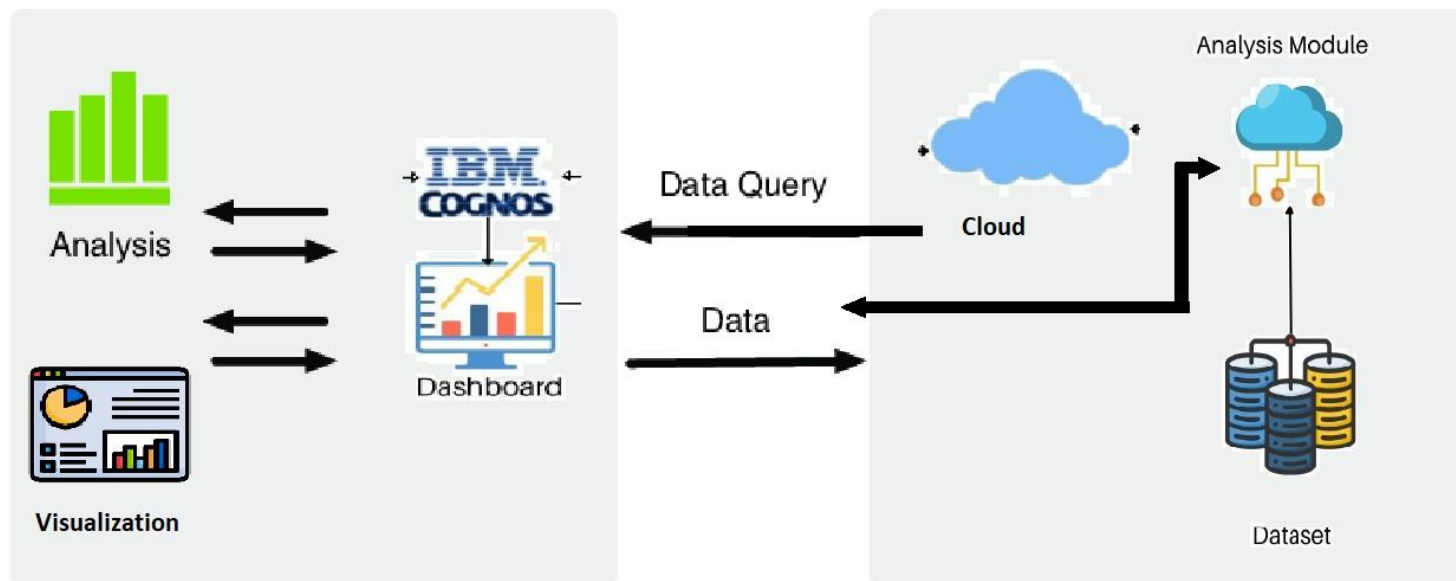


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	18 October 2022
Team ID	PNT2022TMID32631
Project Name	Retail Store Stock Inventory Analytics
Maximum Marks	4 Marks

**Technical Architecture:**



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

S.No	Component	Description	Technology
1.	Importing data	Data is imported from external sources and is used for analytics.	Cognos Analytics Tool
2.	Data Cleaning and Preprocessing	Data cleaning is a process by which inaccurate, poorly formatted, or otherwise messy data is organized and corrected it. Data pre-processing, a component of data preparation, describes any type of processing performed on raw data to prepare it for another data processing procedure.	Cognos Analytics Tool
3.	Exploring data	Exploring data provides many meaningful insights about the given dataset.	Cognos Analytics Tool
4.	Present data	Create sophisticated, multi-page, multi-query dashboards	Cognos Analytics Tool
5.	Creating Report	Create sophisticated, multi-page, multi-query reports.	Cognos Analytics Tool
6.	Creating Story	Create sophisticated, multi-page, multi-query stories.	Cognos Analytics Tool

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used	IBM Cognos Analytics, Python
2.	Security Implementations	Request authentication using Encryptions	Encryptions
3.	Scalable Architecture	Scalability consists of 3-tiers	Web Server – HTML, CSS, Javascript Application Server – Python Database Server – IBM Cloud
4.	Availability	The application is available for cloud users	IBM Cloud Hosting
5.	Performance	The user can know how to maintain the inventory to increase profits.	ML algorithms