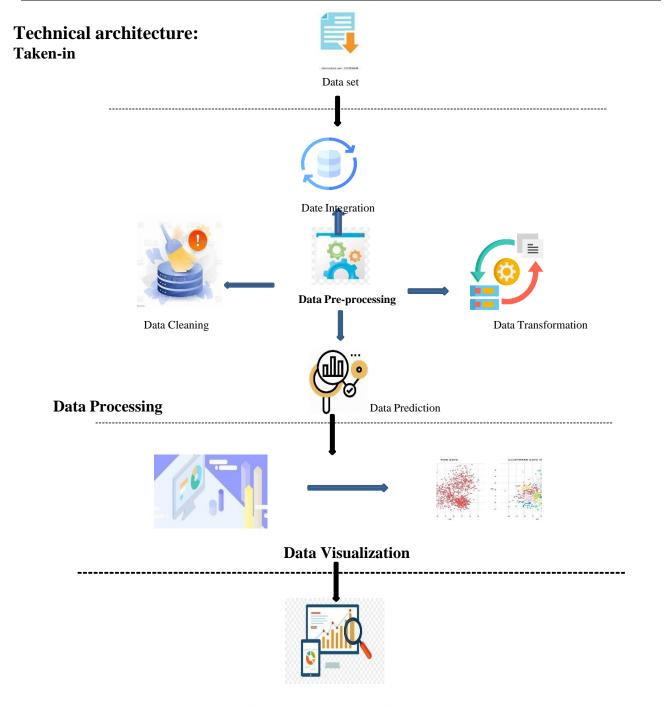
## PROJECT DESIGN PHASE-II

## TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	20 October 2022
Team ID	PNT2022TMID28264
Project Name	Retail Store Stock Inventory Analytics
Maximum marks	4 marks



**Output (Dashboard Creation)** 

**Table 1-Components and technologies:** 

S.no	Components	Description	Technologies	
1.	User interface	The user interacts	HTML, CSS,	
		with application	JavaScript	
		using web UI		
2.	Data Processing	The data from the	IBM Cognos	
		data set is	Analytics	
		preprocessed		
3.	Cloud Database	The clean data set	IBM Cloud	
		is stored in IBM		
		cloud		
4.	Data Visualization	The data is	IBM Cognos	
		visualized into	Analytics, Python	
		different forms		
5.	Prediction	These algorithm	ML algorithms-	
		techniques are used	Logistics	
		to predict theproper	Regressions,	
		way to make the	Linear	
		stock in store	Regressions,	
			Random forest,	
			ABC techniques	

**Table 2- Applications Characteristics:** 

S.no	Characteristics	Description	Technology	
1.	Open source	Open source	IBM Cognos	
	framework	framework is used	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	