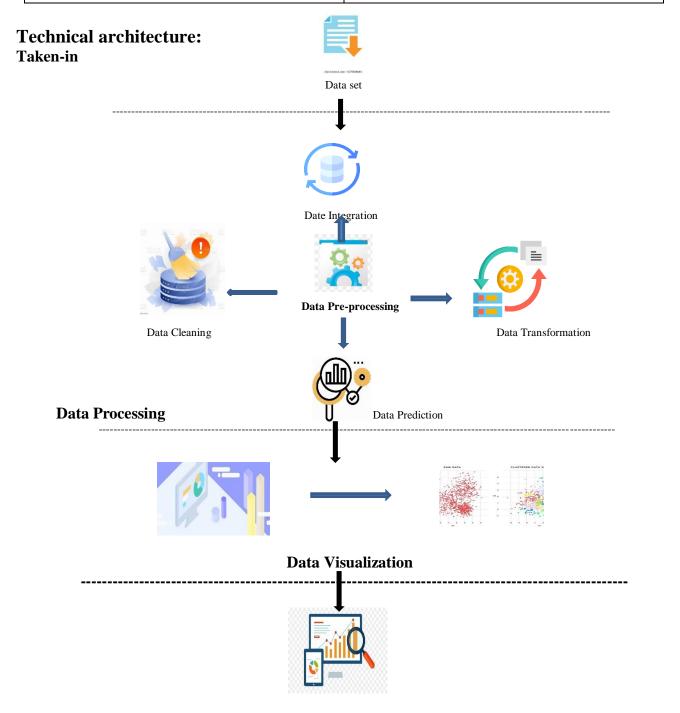
## PROJECT DESIGN PHASE-II

## TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	19 October 2022
Team ID	PNT2022TMID04942
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 Analytics, Python	
	framework	framework is used		
2.	Security	Request	Encryptions	
	implementations	authentication		
		using encryptions		
3.	Scalable	Scalability consists	Web server- HTML, CSS,	
	architecture	of 3 tiers		
			JavaScript,	
			Application server-	
			Python, Database	
			Server- IBM cloud	
4.	Availability	The application is	IBM Cloud	
		available for cloud	Hosting	
		users		
5.	Performance	The user can know	ML algorithms	
		how to maintain		
		the inventory to		
		increase profits		