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

Date	03 October 2023
Team ID	Lakshmi Narayanan
Project Name	Estimation of Business Project
Maximum Marks	4 Marks

Technical Architecture:

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

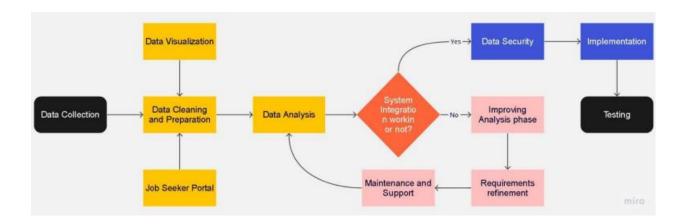**Example: Order processing during pandemics for offline mode**

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The Dairy Goods Sales Dataset, spanning 2019-2022 in specific regions of India, offers valuable insights for dairy industry stakeholders. This data enables analysts and researchers to assess farm performance, sales patterns, and product quality. By investigating factors such as location, cow population, and storage conditions, this dataset facilitates the development of data-driven strategies. However,	HTML, CSS, JavaScript / Angular Js / React Js etc.

		users should acknowledge potential intentional data variations due to its creative license. The dataset supports optimization of inventory management, predictive modeling for demand forecasting, and pricing strategies in the dairy market, thus contributing to informed decision-making and industry growth.	
2.	Application Logic-1	Model building	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Google Colab	Google Colab
2.	Security Implementations	Flask	Flask
3.	Availability	Available Open source	Colab
4.	Performance	Accuracy score using gini index and SD	ML models