Project Design Phase - 2
Technology Stack (Architecture & Stack)

Date	20 - 10 - 2022
Team ID	PNT2022TMID34971
Project Name	Inventory Management For Retailers

Technical Architecture:

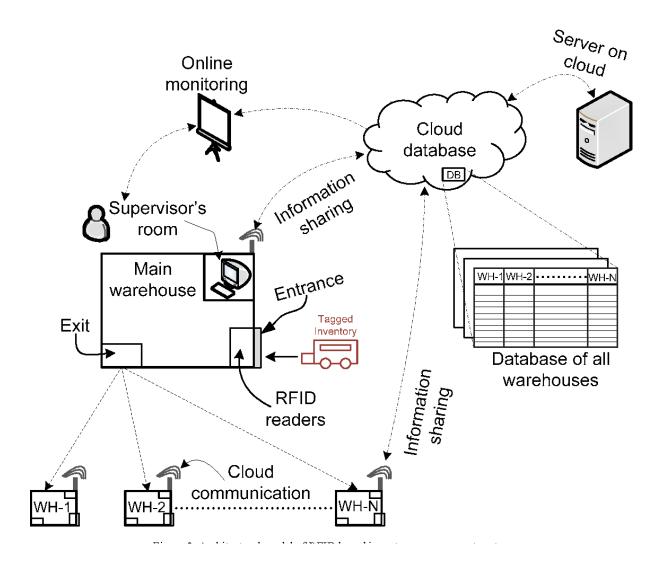The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2.

Figure 2: Architectural model of RFID based inventory management system

Table 1 :

Component	Description	Technology
User Interface	User interacts with application through Web UI	HTML, CSS, JavaScript / Angular Js / React Js etc.
Application Programming Interface	API exposes a set of objects to represent inventory adjustments and physical counts for quantities of products (as item variations) and transitions of stocked products to the relevant inventory state.	IBM Watson Machine Learning service
Database	NoSQL databases is used to store variety of data in a flexible manner.	NoSQL
Cloud Database	Database Service on Cloud	IBM Cloudant
File Storage	File storage requirements	IBM cloud object storage

Table 2: Application Characteristics

Characteristics	Description	Technology
OpenSource Frameworks	Scikit learn Matplotlib Seaborn Pandas Numpy	Data visualization and Data preprocessing
Scalable Architecture	Three tier architecture which will running in cloud	Three Tier Architecture
Availability	Load balancer redirect multiple instance	Load balancers
Performance	Number of requests per second can be handle in cloudNumber of requests per second can be handle in cloud	Number of request per secondNumber of request per second