

## Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID26359
Project Name	Project - Inventory Management System for Retailers
Maximum Marks	4 Marks

### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Retailers can use the application to show and offer their products to their customers.
- Users can use their login information to access their accounts. The application retrieves their customer information, allowing them to pick up where they left off and access the products they put to their cart.
- In order to easily optimise and improve anything in the future, we are containerizing the application using IBM Db2 database and hosting it in IBM Cloud, which is extremely flexible.
- Machine learning is used to anticipate which products are most likely to be ranked highly for sales, allowing retailers to get in touch with their suppliers ahead of time to resupply their inventory.

### Solution Architecture Diagram:

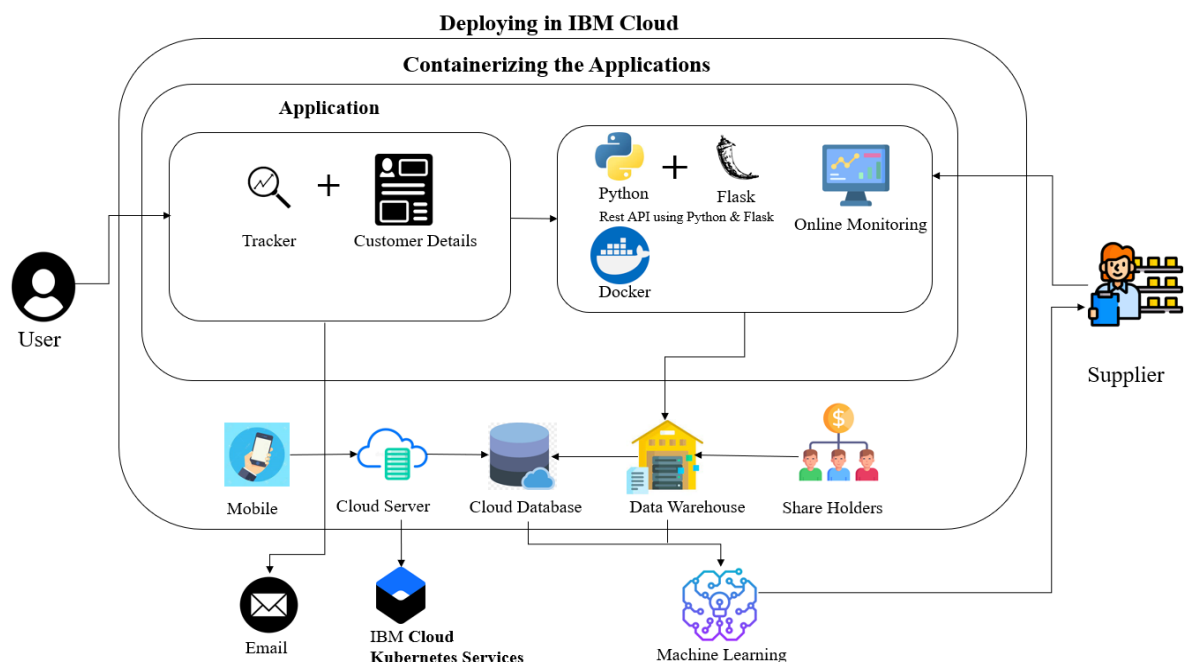


Figure 1: Architecture and data flow for inventory management system for retailers.