

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID10787
Project Name	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:

- Users can log in to their accounts using their credentials, and retailers can access the programme to display and sell their products to customers.
- The application retrieves their customer information, allowing them to pick up where they left off and access the things, they put to their shopping cart.
- We are containerizing the application utilising the IBM Db2 database and delivering it in the extremely scalable IBM Cloud, which will allow us to easily optimise and improve anything in the future.
- Machine learning is used to anticipate which products are most likely to rank highly for sales, allowing retailers to get in touch with their suppliers ahead of time to resupply their inventory.

Solution Architecture Diagram:

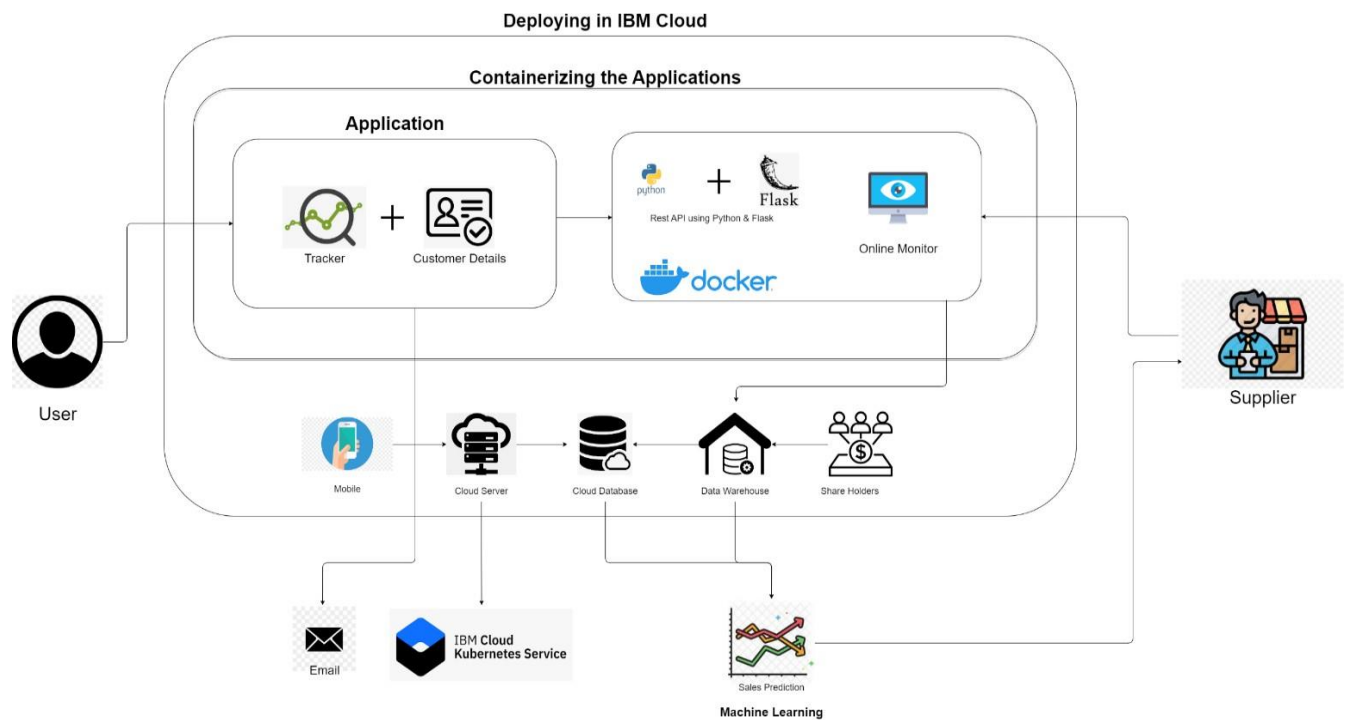


Figure 1: Architecture and data flow for inventory management system for retailers.