

PROJECT DESIGN PHASE-1

SOLUTION ARCHITECTURE

Date	01 october 2022
Team ID	PNT2022TMID26463
Project Name	Retail Store Stock Inventory Analytics
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.

- Find the best tech solution to solve existing business problems.

With the use of Data Analysis, Data Science, and Image Processing a tech solution is developed to solve the existing business problem and to improve the efficiency of the existing solution models.

- Describe the structure, characteristics, behaviour, and other aspects of the software to project stakeholders.

Characteristics & Behaviour:

- User-friendly
 - Real-time dashboard
 - Detailed & Periodic Generation of Inventory Report
 - Automatic Credit Point based Discount System
 - Enhanced Billing Process with Barcodes
- Define features, development phases, and solution requirements.
 - Features:
 - Instant Invoice Generation
 - Automatic Determination of GST & other taxes
 - Easy Categorisation and Product Search
 - Effective Notification System
 - Real-time dashboard updation
 - Efficient Report generation & visualisation
 - Solution Requirements:
 - Data set
 - Data model
 - Data processing tools.
- Provide specifications according to which the solution is defined, managed, and delivered

The proposed solution is managed, defined and delivered by

- Analysing the technology environment
- Analysing and documenting requirements
- Participating in technology selection
- Creating a solution prototype
- Supporting project management.

Example - Solution Architecture Diagram:

