

## Project Design Phase-I

### Solution Architecture

Project Name	Retail Store Stock Inventory Analytics
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#### 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 defined, managed, 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:

