Requirement Analysis Technology Stack (Architecture & Stack)

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Project Name	HandsMen Threads – Elevating the Art of
	Sophistication in Men's Fashion

Technology Stack:

The project uses the **Salesforce Platform** as the core technology stack to manage **customer relationships, product orders, inventory tracking, and loyalty programs** for a fashion retail environment.

Technology Stack Overview:

• Frontend (UI):

- Salesforce Lightning App Custom app HandsMen Threads designed for retail staff and admin users
- Lightning Pages Used for record pages, list views, dashboards, and tab navigation
- Screen Flows Used for guided actions (e.g., customer creation, loyalty update)

• Backend (Logic & Automation):

- Apex Triggers Used to automate backend processes (e.g., update inventory after order)
- Flow Automation Handles order creation, loyalty tier calculation, email alerts.
- Validation & Sharing Rules Ensures data quality and Controls record visibility based on user roles.

Database:

- Salesforce Objects Custom Objects: Customer, Product, Order, Inventory, Campaign, Loyalty
- Relationships Lookup and Master-Detail between objects.
- Record Types & Layouts Used to define different data entry experiences for different user types

• Reports & Analytics:

- Salesforce Reports & Dashboards —Track orders by status, top-selling products, stock levels and Real-time KPIs for sales, loyalty status, inventory alerts
- O Custom Report Types For cross-object insights

• Security:

- Profiles & Roles Assign role-based access for Sales, Inventory, Marketing, Admin users
- Public Groups Organize users for group-based sharing

Here's a detailed view of Technology Stack:

Frontend / User Interface:

Component	Description
Salesforce Lightning App	Custom branded CRM app for sales, inventory, and
	marketing users.
Lightning Pages	Record pages and list views for Customer, Product,
	Order, and Campaign management.
Tabs and Navigation	User-friendly access to core objects from the
	Salesforce App Launcher.
Screen Flows	Guided user input flows for creating records and
	updating loyalty tiers.
Page Layouts	Customized layouts based on profiles and record types.

Backend / Logic Layer:

Component	Description
Apex Triggers	Used for backend automation like inventory
	update post-order placement.
Scheduled Flows	For daily loyalty tier updates based on total
	purchase history.
Validation Rules	Ensures field-level accuracy such as email
	format and stock checks.
Process Builder / Flows	Handles automation like email alerts, record
	updates, and task creation.
Record-Level Sharing	Custom logic for access to specific records
	per role (sales, marketing).

Data Storage:

Component	Description
Custom Objects	HandsMen_Customerc,
	HandsMen_Orderc,
	HandsMen_Productc, Inventoryc,
	Campaignc
Object Relationships	Lookup and Master-Detail relationships for
	Orders → Customer/Product
Record Types	Different layouts for Customer tiers or
	campaign types.
Field-Level Security	Controls access to sensitive fields like
	contact, loyalty status.
Audit Trail	Tracks changes made to critical fields like
	stock, order status.

Reports & Analytics:

Component	Description
Dashboards	Sales dashboard, stock dashboard, loyalty tier
	trends, campaign success overview.
Reports	Product-wise sales, daily orders, inventory
	status, campaign reach.
Custom Report Types	Combine Customer + Orders + Loyalty in one
	report for deeper insights.

Security & Access Control:

Component	Description
Profiles & Roles	Define access for sales, inventory,
	marketing, and admin users.
Permission Sets	Grant additional permissions without
	changing profile (e.g., campaign editing).
Sharing Rules	Automate record sharing across teams or
	branches.
Login Access Policies	Limit access by IP, time, or device if
	required.
Two-Factor Authentication	For admin users and sensitive object
	access.

Outcome:

- Centralized CRM Platform
- Automated Workflows & Business Logic
- Real-time Analytics and Dashboards
- Enhanced Customer Experience
- Scalable & Customizable Architecture