

# **HandsMen Threads: Elevating the Art of Sophistication in Men's Fashion Salesforce**

## **PROJECT OVERVIEW**

HandsMen Threads is a custom Salesforce CRM solution developed to streamline business operations within the men's fashion industry. The system centralizes customer management, product cataloging, order processing, inventory tracking, and marketing campaigns. By implementing a strong data model and UI-driven validations, the CRM ensures accurate data capture and consistency across all business processes.

Automated business processes—including record-triggered flows, scheduled flows, email alerts, and Apex logic—improve operational efficiency. Key automation includes order confirmation notifications, loyalty status updates, and proactive stock alerts. A batch Apex class also monitors and updates low inventory levels. The integrated security model ensures role-based access for the Sales, Inventory, and Marketing teams.

Overall, the CRM enhances customer engagement through personalized communication, improves internal workflow efficiency, and establishes a scalable, long-term solution on the Salesforce platform.

### **Key Features:**

- Automated order processing with real-time inventory deduction
- Dynamic customer loyalty program with tier-based classification
- Proactive low-stock alerting system for inventory managers
- Email-driven customer communication for order confirmations

- Role-based security architecture ensuring departmental data segregation
- Comprehensive reporting dashboards for business intelligence

## **OBJECTIVES**

The primary objective of this CRM project is to design an end-to-end Salesforce solution that strengthens data management and elevates customer service. The system aims to:

- Automate key business processes such as order calculations, loyalty status updates, and low-stock alerts.
- Maintain accurate, consistent, and clean data through validation rules.
- Provide real-time tracking of inventory and customer transactions.
- Improve collaboration via role-based data visibility.
- Enhance customer experience through personalized email communication.

## **PHASE 1: REQUIREMENT ANALYSIS & PLANNING**

### **Understanding Business Requirements**

HandsMen Threads requires:

- A centralized platform for customer, order, product, and inventory management.
- Automation to reduce manual errors and streamline processes.
- Email-driven communication for order confirmations and loyalty updates.
- Real-time inventory visibility supported by low-stock alerts.
- Data validation (e.g., email formatting) to ensure data integrity.

## **Defining Project Scope and Objectives**

Scope includes:

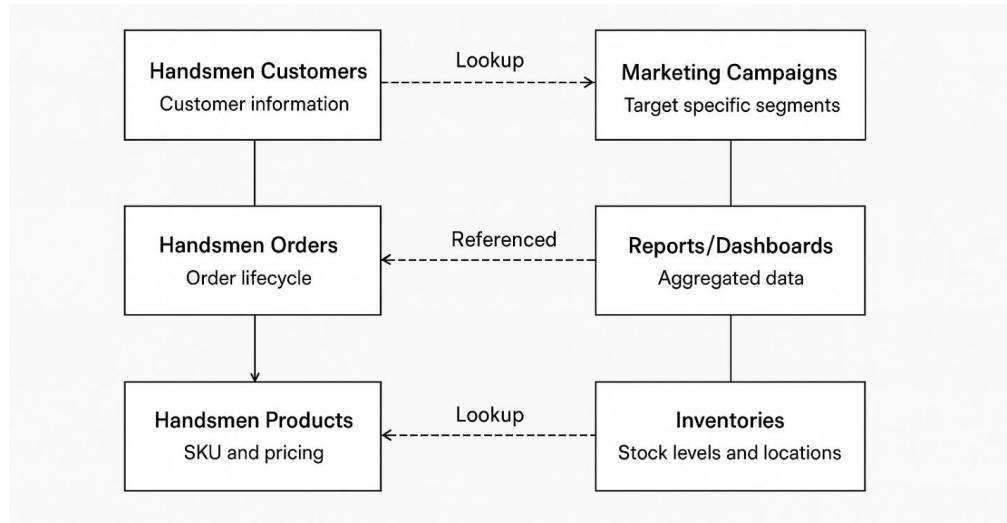
- Custom CRM application with objects for Customers, Orders, Products, Inventory, and Campaigns.
- Automation via Flows, Email Alerts, Scheduled Jobs, and Apex Triggers.
- Validation rules for accurate input.
- Role-based security model for different departments.
- Reports and dashboards to monitor sales, inventory, and loyalty trends.

### **Objectives:**

- Automate critical operations such as order computation, loyalty adjustments, and inventory deduction.
- Ensure data accuracy and consistency across all custom objects.
- Enhance customer communication through automated email workflows.
- Enable real-time monitoring of inventory to prevent overselling.
- Consolidate all business functions within one centralized Salesforce system.

## **Design Data Model and Security Model**

The data model defines how key entities relate and interact within the HandsMen system, connecting customers, orders, products, inventory, campaigns, and reports to ensure smooth and integrated business operations.



### Key entities:

- **HandsMen Customers** – Master object with detail orders and campaign associations.
- **HandsMen Orders** – Tracks full order lifecycle and product linkage.
- **HandsMen Products** – Catalog with SKU, price, and inventory linkage.
- **Inventory** – Real-time stock tracking across warehouses.
- **Marketing Campaigns** – Customer targeting for promotions.

### Stakeholders Mapping

#### 1. Sales Team

- **Role:** Front-line customer interaction, order processing
- **Needs:** Fast order entry, customer history access, inventory visibility
- **Pain Points:** Slow manual processes, no mobile access
- **Success Metrics:** Order processing time, customer satisfaction scores

#### 2. Inventory Managers

- **Role:** Stock level monitoring, warehouse coordination, reorder management
- **Needs:** Real-time stock alerts, movement tracking, reporting
- **Pain Points:** Stockouts, manual counting, lack of visibility
- **Success Metrics:** Stockout frequency, inventory turnover rate

### 3. Marketing Team

- **Role:** Campaign planning, customer segmentation, promotion execution
- **Needs:** Customer data access, loyalty insights, campaign tracking
- **Pain Points:** Scattered customer data, no segmentation tools
- **Success Metrics:** Campaign ROI, customer engagement rates

### 4. System Administrators

- **Role:** CRM maintenance, user support, customization
- **Needs:** Full system access, monitoring tools, documentation
- **Responsibilities:** System uptime, data backup, user training

### 5. Senior Management

- **Role:** Strategic decision-making, performance monitoring
- **Needs:** Executive dashboards, KPI visibility, trend analysis
- **Success Metrics:** Revenue growth, customer retention, operational efficiency

### Secondary Stakeholders:

- IT Department
- Finance Team
- Customer Service

## **Execution Roadmap**

### **Project Timeline: 8 Weeks**

**Week 1-2:** Gather requirements, design data model, set up Developer Org, and plan security architecture.

**Week 3-4:** Build custom objects, configure fields, implement validation rules, establish relationships, and load test data.

**Week 5:** Develop flows and Apex triggers for automation, configure email alerts, and test processes.

**Week 6:** Create Lightning App, customize layouts, implement dynamic forms, and configure user security.

**Week 7:** Create unit tests, conduct end-to-end and UAT testing, optimize performance, and fix bugs.

**Week 8:** Deploy to production, migrate historical data, train users, finalize documentation, and provide go-live support.

## **PHASE 2: SALESFORCE DEVELOPMENT - BACKEND & CONFIGURATIONS**

### **Environment Setup & DevOps Workflow**

- A Salesforce Developer Org was created and configured for development.

<https://developer.salesforce.com/signup>

- The account was verified, a password was created, and Setup access was successfully granted.

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First name: Robert Last name: Macalam

Job title: Non-Employee Work email: robertmacalam0603@

Company: Polytechnic University Country/Region: Philippines

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.

☒ I agree to the Main Services Agreement - Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features, and (2) Salesforce may limit use of those features and this org, and may terminate any org that has been inactive for 45 days.

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**Sign Me Up**

## 2.2 Customization of Objects, Fields, Validation Rules, Automation

### Five major objects:

- **HandsMen Customer (HandsMen\_Customer\_\_c)**- Stores key customer details including email address, contact number, and loyalty status.
- **HandsMen Product (HandsMen\_Product\_\_c)** - Contains detailed product records, including SKU codes, pricing, and stock availability.
- **HandsMen Order (HandsMen\_Order\_\_c)** - Contains customer order information, including product quantities and the associated order status.
- **Inventory (Inventory\_\_c)** - Monitors inventory quantities and corresponding warehouse locations.
- **Marketing Campaign (Marketing\_Campaign\_\_c)** - Holds campaign data such as promotion details and timing.

## Steps:

- Navigate to Setup > Object Manager > Click “Create” Button > Custom Object
- Provided the object label, name, and enabled reporting/search options
- Saved the custom object and created tabs for each object

The screenshot shows the Salesforce 'New Custom Object' setup page. The browser address bar displays 'orgfarm-0244376349-dev-ed.develop.my.salesforce-setup.com/lightning/setup/ObjectManager/new'. The page header includes 'Setup', 'Home', and 'Object Manager' tabs. The main heading is 'New Custom Object'. A yellow banner message states: 'Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles. [Tell me more!](#) [Don't show this message again](#)'. Below this is the 'Custom Object Definition Edit' section with 'Save', 'Save & New', and 'Cancel' buttons. The 'Custom Object information' section includes a note: 'The singular and plural labels are used in tabs, page layouts, and reports'. It contains fields for 'Label' (with example 'Account'), 'Plural Label' (with example 'Accounts'), and a checkbox for 'Starts with vowel sound'. Another note states: 'The Object Name is used when referencing the object via the API.' with an 'Object Name' field (example 'Account') and a 'Description' text area. At the bottom, there are links for 'Context-Sensitive Help Settings' and 'From the standard Salesforce.com Help & Training window'.

## Validation Rules

To maintain data accuracy and uphold business rules, the following validation rules were applied:

- Order Object: Prevents saving the record if Total\_Amount\_\_c <= 0.
- Error Message: "Please enter a correct amount"



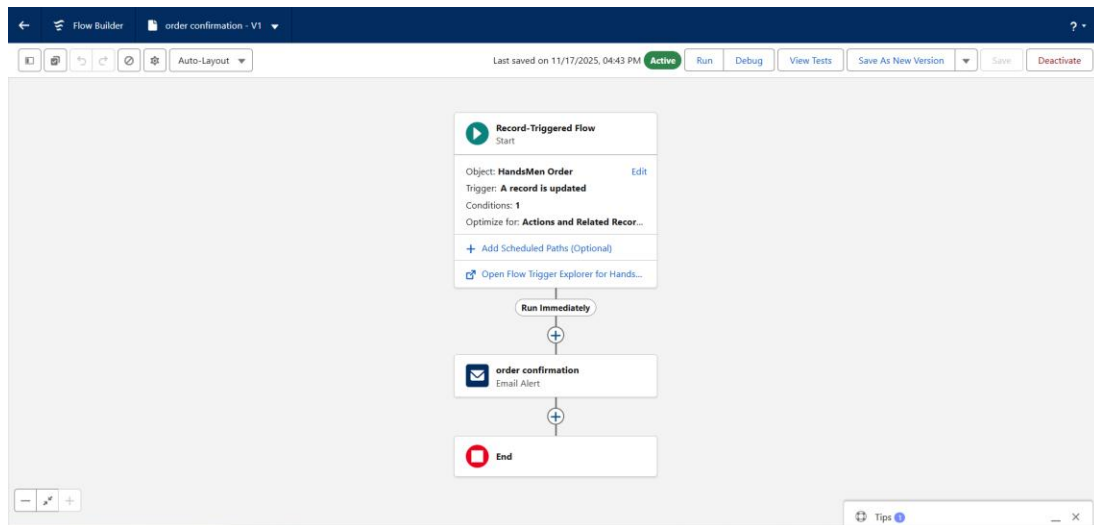
The screenshot shows a Salesforce Lightning page for a 'HandsMen Order' record. The record is owned by Robert Macalam. The form includes fields for 'HandsMen Product' (Jersey), 'HandsMen Customer' (Robert), 'Status' (None), 'Quantity', and 'Total Amount' (0). A validation error message is displayed: 'Please Enter Correct Amount'. A red error banner at the bottom of the form reads: 'We hit a snag. Review the following fields: Total Amount'. The background shows a list of 'HandsMen Orders' with columns for 'HandsMen OrderNumber' and 'Status'.

- Customer Object: Validates that the email address contains “@gmail.com”  
Error Message: "Please enter a Correct Gmail."

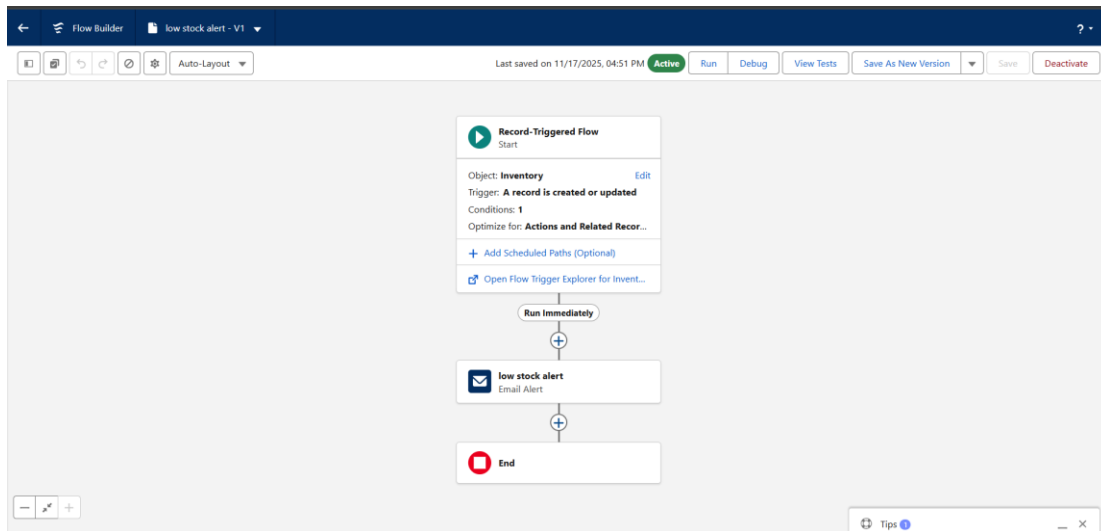
The screenshot shows a Salesforce Lightning page for a 'HandsMen Customer' record. The record is owned by Robert Macalam. The form includes fields for 'HandsMen Customer Name' (Ronny), 'Email' (ronny@example.com), 'Phone', 'Loyalty Status' (None), 'FirstName' (ronny), 'LastName' (r), and 'Total Purchases' (500). A validation error message is displayed: 'Please fill Correct Gmail'. A red error banner at the bottom of the form reads: 'We hit a snag. Review the errors on this page. Please fill Correct Gmail'. The background shows a list of 'HandsMen Customers' with columns for 'HandsMen Customer Name' and 'Status'.

## Automation (Flows)

- **Record-triggered flows:**
  - **Order Confirmation Email Flow** - The flow activates when an order's status is changed to *Confirmed*, automatically sending an Order Confirmation email to the customer through the configured email alert.

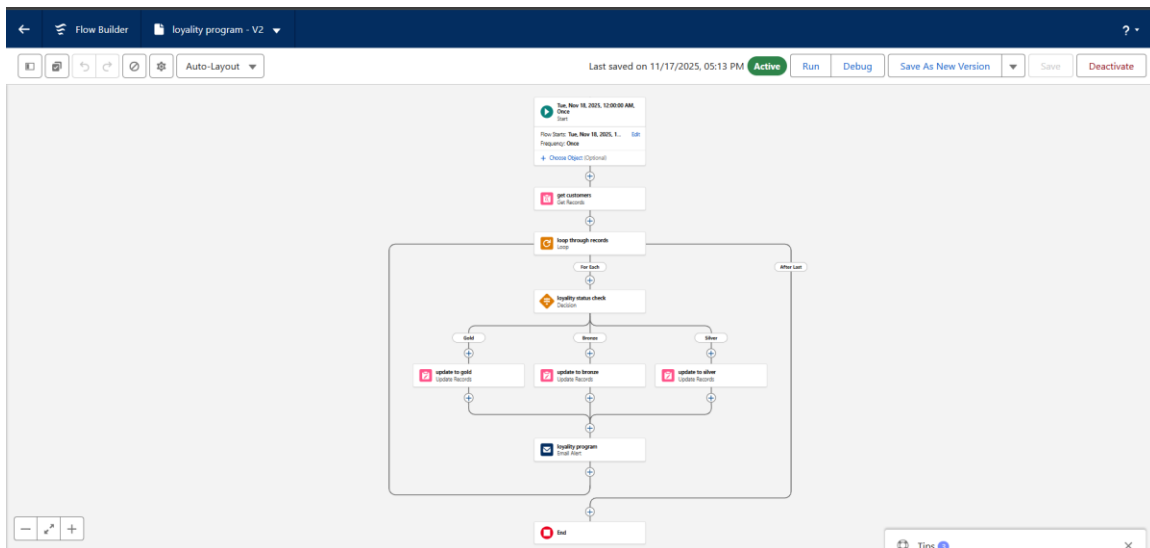


- **Low Stock Alert Flow** - The flow activates when an inventory item's quantity drops below five units, automatically sending a Low Stock Alert email to the Inventory Manager through the configured email alert.



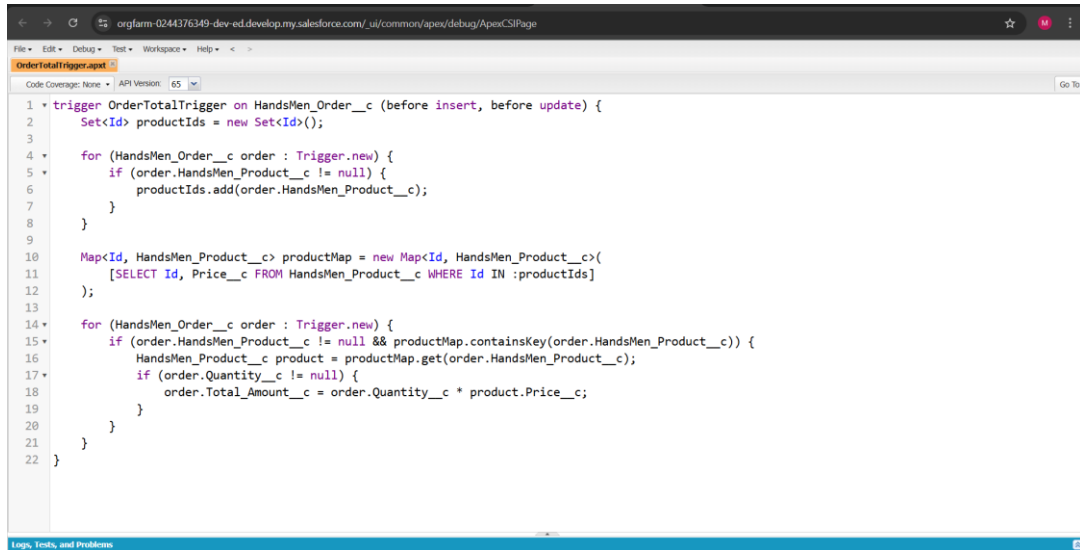
- **Scheduled-Triggered Flow:**

- **Loyalty Program Flow** – Runs every night at midnight, reviewing all customer records and automatically updating their Loyalty Status according to each customer's total purchase amount.



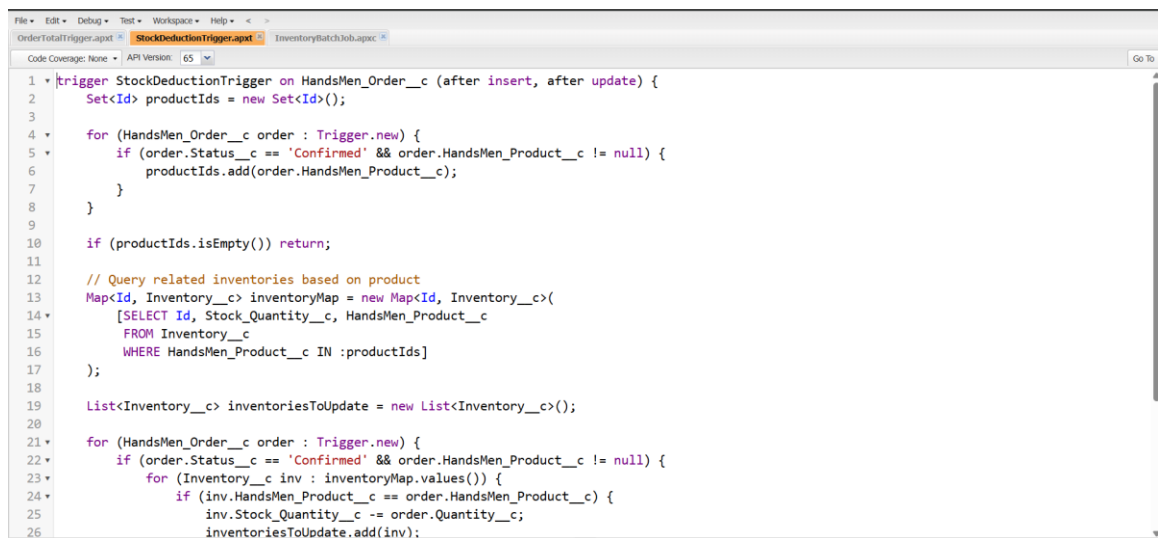
## Apex Triggers

- **Order Total Trigger** – Determines the Total Amount automatically by multiplying the order quantity with the unit price.



```
1 * trigger OrderTotalTrigger on HandsMen_Order__c (before insert, before update) {
2     Set<Id> productIds = new Set<Id>();
3
4     for (HandsMen_Order__c order : Trigger.new) {
5         if (order.HandsMen_Product__c != null) {
6             productIds.add(order.HandsMen_Product__c);
7         }
8     }
9
10    Map<Id, HandsMen_Product__c> productMap = new Map<Id, HandsMen_Product__c>{
11        [SELECT Id, Price__c FROM HandsMen_Product__c WHERE Id IN :productIds]
12    };
13
14    for (HandsMen_Order__c order : Trigger.new) {
15        if (order.HandsMen_Product__c != null && productMap.containsKey(order.HandsMen_Product__c)) {
16            HandsMen_Product__c product = productMap.get(order.HandsMen_Product__c);
17            if (order.Quantity__c != null) {
18                order.Total_Amount__c = order.Quantity__c * product.Price__c;
19            }
20        }
21    }
22 }
```

- **Stock Deduction Trigger** – Automatically reduces the inventory quantity each time an order is submitted and confirmed.



```
1 * trigger StockDeductionTrigger on HandsMen_Order__c (after insert, after update) {
2     Set<Id> productIds = new Set<Id>();
3
4     for (HandsMen_Order__c order : Trigger.new) {
5         if (order.Status__c == 'Confirmed' && order.HandsMen_Product__c != null) {
6             productIds.add(order.HandsMen_Product__c);
7         }
8     }
9
10    if (productIds.isEmpty()) return;
11
12    // Query related inventories based on product
13    Map<Id, Inventory__c> inventoryMap = new Map<Id, Inventory__c>{
14        [SELECT Id, Stock_Quantity__c, HandsMen_Product__c
15         FROM Inventory__c
16         WHERE HandsMen_Product__c IN :productIds]
17    };
18
19    List<Inventory__c> inventoriesToUpdate = new List<Inventory__c>();
20
21    for (HandsMen_Order__c order : Trigger.new) {
22        if (order.Status__c == 'Confirmed' && order.HandsMen_Product__c != null) {
23            for (Inventory__c inv : inventoryMap.values()) {
24                if (inv.HandsMen_Product__c == order.HandsMen_Product__c) {
25                    inv.Stock_Quantity__c -= order.Quantity__c;
26                    inventoriesToUpdate.add(inv);
27                }
28            }
29        }
30    }
31 }
```

- **Inventory Batch Job** - Runs on schedule to monitor inventory levels, update stock data, and ensure proactive replenishment and accurate tracking

```
File • Edit • Debug • Test • Workspace • Help • < >
OrderTotalTrigger.apxt | StockDeductionTrigger.apxt | InventoryBatchJob.apxt
Code Coverage: None • API Version: 65 • Go To

1 • global class InventoryBatchJob implements Database.Batchable<SObject>, Schedulable {
2
3 • global Database.QueryLocator start(Database.BatchableContext BC) {
4
5     return Database.getQueryLocator(
6
7         'SELECT Id, Stock_Quantity__c FROM Product__c WHERE Stock_Quantity__c < 10'
8
9     );
10
11 }
12
13 • global void execute(Database.BatchableContext BC, List<SObject> records) {
14
15     List<HandsMen_Product__c> productsToUpdate = new List<HandsMen_Product__c>();
16
17     // Cast SObject list to Product__c list
18
19     for (SObject record : records) {
20
21         HandsMen_Product__c product = (HandsMen_Product__c) record;
22
23         product.Stock_Quantity__c += 50; // Restock logic
24
25         productsToUpdate.add(product);
26
27     }
28 }
29
30 }
31
32 }
```

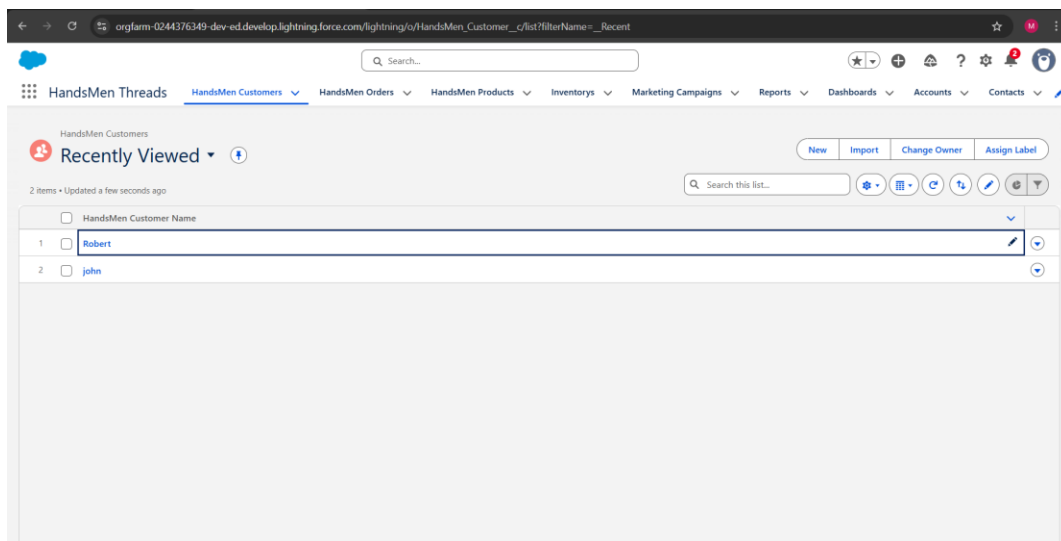
## PHASE 3: UI/UX DEVELOPMENT & CUSTOMIZATION

### Lightning App Setup

A custom lightning app “HandsMen Threads” created via App Manager.

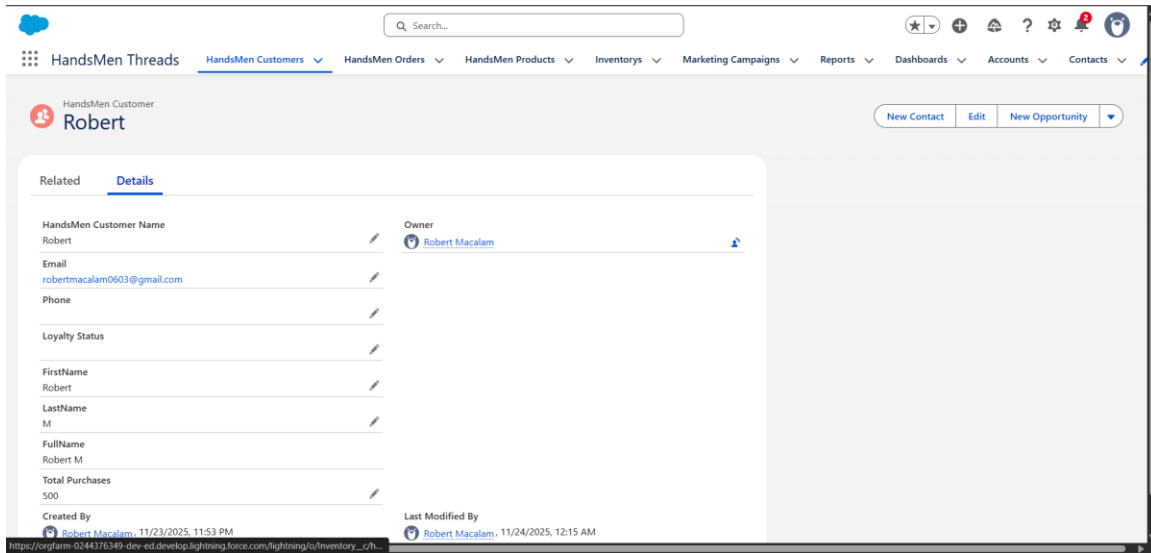
The app includes the following tabs: HandsMen Customers, Orders, Products, Inventory, Marketing Campaign, Reports, Dashboards and other essential objects.

The app was assigned to the System Administrator profile.



## Page Layouts & Dynamic Forms

- **HandsMen Customers Record** - This record is used as an example, featuring the entry “Robert,” to illustrate how Page Layouts and Dynamic Forms are applied.



- **Logical Sections via Dynamic Forms:** Dynamic Forms help categorize record information into well-defined sections, enhancing user navigation. Example sections include:
  - Customer Details
  - Order History
  - Loyalty Program
- **Read-Only Fields:** Specific fields in the Loyalty Program section are designated as read-only to ensure data accuracy. These include:
  - Loyalty Status
  - Total Purchases

These values are automatically generated through Flows, and their read-only configuration is applied through the Page Layout.

Users will find these fields in the “Details” tab.

**User Management** - User profiles, roles, and permission sets provide controlled, secure access to data and features tailored by department and responsibility.

Setup

Home

Object Manager

users

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles

User Management Settings

Users

Feature Settings

Data.com

Prospector Users

Didn't find what you're looking for? Try using Global Search.

Search Setup

Star

Share

Help

Settings

Notifications

Profile

SETUP

Users

User Profile Help for this Page

User

Daniel Mikaelson

Permission Set Assignments (1) | Permission Set Assignments Activation Required (0) | Permission Set Group Assignments (0) | Permission Set License Assignments (0) | Personal Groups (0) | Public Group Membership (0) | Queue Membership (0) | Team (0) | Managers in the Role Hierarchy (0) | Chatter Apps (0) | Third-Party Account Links (0) | Bulk-In Authentication (0) | Installed Mobile Apps (0) | Authentication Settings for External Systems (0) | Login History (12) | User Provisioning Accounts (0)

User Detail

Edit

Sharing

Reset Password

Freeze

View Summary

Name	Daniel Mikaelson	Role	Marketing
Alias	dmika	User License	Salesforce
Email	robertmacalam0603@gmail.com [Verified]	Profile	Platform_1
Username	robertmacalam06633@gmail.com	Active	<input checked="" type="checkbox"/>
Nickname	User17633669767929727739	Marketing User	<input type="checkbox"/>
Title		Offline User	<input type="checkbox"/>
Company		Knowledge User	<input type="checkbox"/>
Department		Flow User	<input type="checkbox"/>
Division		Service Cloud User	<input type="checkbox"/>
Address		Site.com Contributor User	<input type="checkbox"/>
Time Zone	(GMT-08:00) Pacific Standard Time (America/Los_Angeles)	Site.com Publisher User	<input type="checkbox"/>
Locale	English (United States)	WDC User	<input type="checkbox"/>
Language	English	Mobile Push Registrations	View
Delegated Approver		Data.com User Type	
Manager		Accessibility Mode (Classic Only)	<input type="checkbox"/>
Receive Approval Request Emails	Only if I am an approver	Debug Mode	<input type="checkbox"/>
Federation ID		High-Contrast Palette on Charts	<input type="checkbox"/>

SETUP

Users

Help for this Page

All Users

On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. Let's Go

View: All Users | Edit | Create New View

New User

Reset Password(s)

Add Multiple Users

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty.00d9f00000exaduualj1r1mjas0ork@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	EPIC_OrgFarm	OEPIC	epic.f4852daabf01@orgfarm.salesforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	Macalam_Robert	rob	robertmacalam0603209@agentforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	Mikaelson_Daniel	dmika	robertmacalam06633@gmail.com	Marketing	<input checked="" type="checkbox"/>	Platform_1
<input type="checkbox"/> Edit	Mikaelson_Kol	kmika	robertmacalam6644@gmail.com	Inventory	<input type="checkbox"/>	Platform_1
<input type="checkbox"/> Edit	Mikaelson_Niklaus	nmika	robertmacalam6633@gmail.com	Sales	<input checked="" type="checkbox"/>	Platform_1
<input type="checkbox"/> Edit	User_Integration	integ	integration@00d9f00000exaduualj1r1mjas0ork@chatter.salesforce.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightssecurity@00d9f00000exaduualj1r1mjas0ork@chatter.salesforce.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User

New User

Reset Password(s)

Add Multiple Users

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Other

All

orgfarm-0244376349-dev-ed develop my.salesforce-setup.com/lightning/setup/\_/home

## Reports and Dashboards

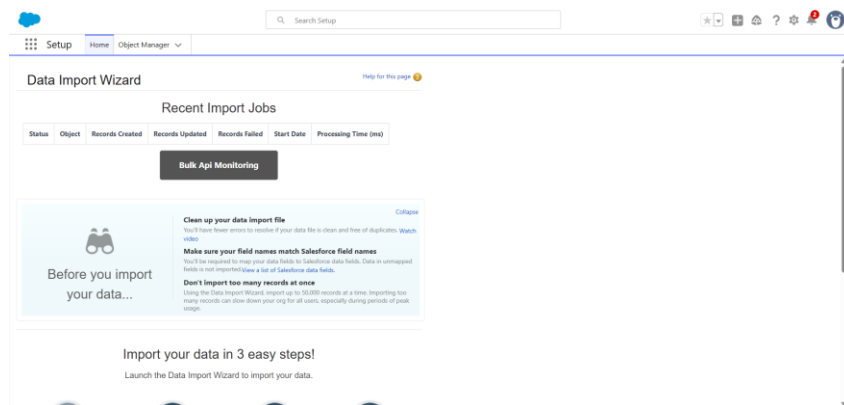
Design and deploy customized reports and dashboards to provide real-time insights into sales, inventory, orders, and customer engagement for stakeholders.

## Lightning Pages

Use Lightning App Builder to assemble components, layouts, and content for a seamless and intuitive user interface across business processes.

## PHASE 4: DATA MIGRATION, TESTING & SECURITY

**Data Loading** - Data Loader used for customers, products, and inventory imports.



## Field History Tracking, Duplicate Rules & Matching Rule

Activate field history tracking on critical objects for audit trails and issue resolution, while implementing duplicate and matching rules to ensure data quality and prevent redundant records



Setup

Home

Object Manager

field

Feature Settings

Field History Tracking

Marketing

LinkedIn Lead Gen

Lead Gen Fields

Service

Field Service

Field Service Mobile

Field Service Mobile App Builder

Field Service Settings

Objects and Fields

Object Manager

Picklist Value Sets

Schema Builder

Process Automation

Workflow Actions

Field Updates

time, nature of the change, and user making the change. Note that multi-select picklist and large text field values are tracked as edited; their old and new field values are not recorded.

Search

Show only objects with tracked fields

Total Objects with Trackable Fields

131

3 Objects with Tracked Fields — 2%

Total Trackable Fields

1616

45 Tracked Fields — 3%

Trackable High Risk Fields

0

0 Tracked High Risk Fields — 0%

Field Per Object Tracking Limit

60

Object

Enable Field History Tracking

Number of Tracked Fields

>

Account

☐

>

Address

☒

>

Appointment Category

☒

>

Appointment Invitation

☒

>

Appointment Topic Time Slot

☒

>

Asset

☒

Setup

Home

Object Manager

matching rule

Data

Duplicate Management

Matching Rules

Didn't find what you're looking for? Try using Global Search.

Matching Rules

All Matching Rules

What Are Matching Rules?

View: All Matching Rules Create New View

Action

Rule Name

Object

Status

Description

Last Modified Date

Last Modified By

Deactivate

Standard Account Matching Rule

Account

Active

Matching rule for account records. More info

11/11/2025

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Deactivate

Standard Contact Matching Rule

Contact

Active

Matching rule for contact records. More info

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Deactivate

Standard Lead Matching Rule

Lead

Active

Matching rule for lead records. More info

11/11/2025

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Setup

Home

Object Manager

duplicate

Data

Duplicate Management

Duplicate Error Logs

Duplicate Rules

Matching Rules

Didn't find what you're looking for? Try using Global Search.

Duplicate Rules

All Duplicate Rules

What Are Duplicate Rules?

View: All Duplicate Rules

Rule Name

Description

Object

Matching Rule

Active

Last Modified By

Last Modified Date

Standard Account Duplicate Rule

Identify accounts that duplicate other accounts.

Account

Standard Account Matching Rule

☒

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Standard Contact Duplicate Rule

Identify contacts that duplicate other contacts and leads.

Contact

Standard Lead Matching Rule

☒

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Standard Lead Duplicate Rule

Identify leads that duplicate other leads and contacts.

Lead

Standard Contact Matching Rule

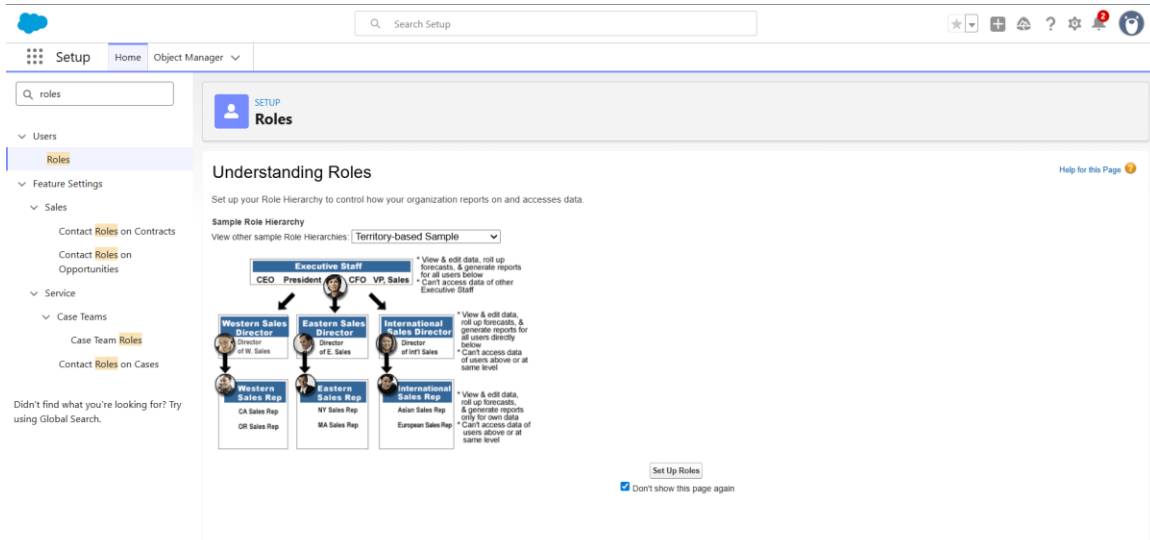
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OEPIG

11/11/2025

## Profiles, roles, role hierarchy, permission sets, and sharing rules

An integrated security model with predefined profiles and roles will align with the organizational structure for Sales, Inventory, and Marketing teams, while permission sets and sharing rules provide granular access control to ensure appropriate data visibility and editing rights.



## Test Classes

Build Apex test classes for all custom code, triggers, and batch jobs to ensure predictable functionality, enable regression testing, and meet Salesforce deployment requirements.

## PHASE 5: DEPLOYMENT, DOCUMENTATION & MAINTENANCE

### Deployment Strategy

The primary deployment approach will utilize Salesforce Change Sets to enable the transfer of configuration and customization elements from the sandbox development environment to the production environment. This approach allows for bundling related metadata components, validating dependencies prior to

deployment, and monitoring deployment progress to guarantee a smooth migration. Change Sets offer ease of use and are well-suited for organizations with moderate IT capabilities, helping to minimize errors and maintain controlled rollouts.

### **System Maintenance and Monitoring**

After implementation, the CRM system will undergo continuous surveillance to detect performance problems, workflow malfunctions, and data quality concerns. Regular assessments of system functionality and review of audit trails will enable prompt detection and resolution of potential issues. Support mechanisms will be established to collect user input and address technical difficulties, maintaining high system availability and consistent operational effectiveness.

### **Troubleshooting Documentation**

A comprehensive guide will be created to assist administrators and support personnel in identifying and fixing frequently encountered issues. This documentation will contain detailed instructions for addressing workflow breakdowns, automation malfunctions, data discrepancies, permission-related problems, system restoration processes, and protocols for escalating complex incidents to specialized teams, thereby maintaining system reliability and user contentment.

### **Conclusion**

The HandsMen Threads Salesforce CRM initiative represents a comprehensive strategy designed to unify sales operations, inventory tracking, marketing campaigns, and customer support functions through customized data structures and intelligent automation capabilities. The system ensures data accuracy, enhances customer engagement, and streamlines business processes. By combining declarative automation mechanisms such as flows and process builders with programmatic Apex triggers, the platform automates critical workflows including

order validation, loyalty program updates, inventory replenishment notifications, and backend processing tasks. These functionalities are reinforced by granular, permission-based security controls and rigorous quality assurance protocols.

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