

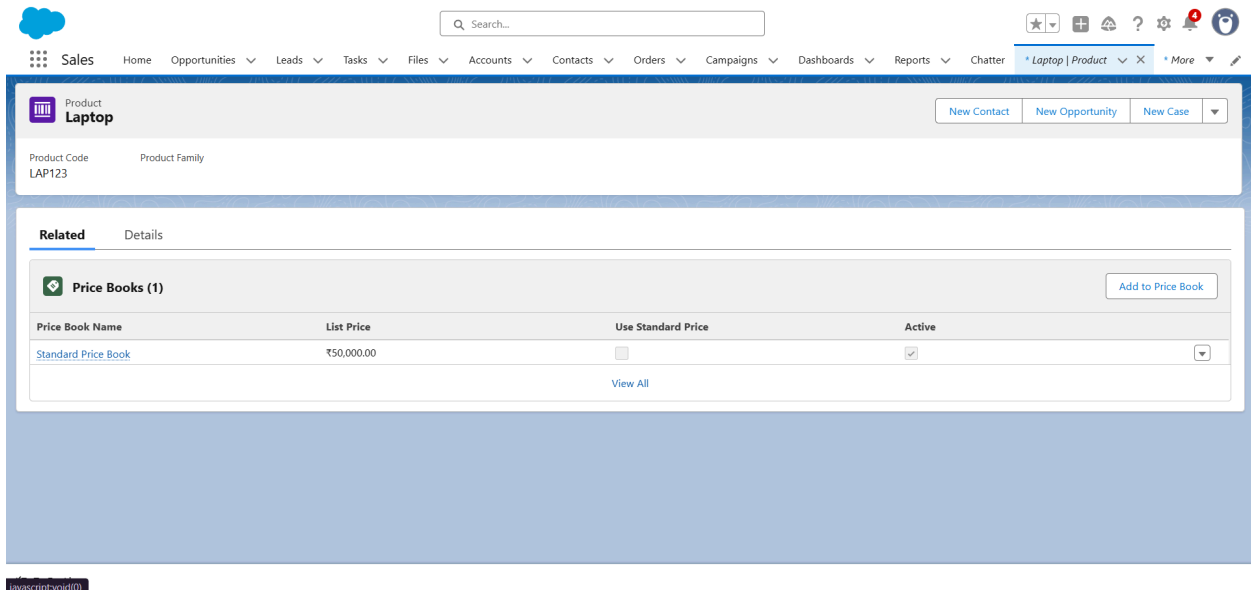
Phase 5: Apex Programming (Developer)

Objective

Phase 5 focuses on implementing Apex triggers, test classes, and the Approval Process to automate high-value order management and maintain accurate order totals in Salesforce.

1. Product & Price Book

The product Laptop Custom is linked to the **Standard Price Book** with **Unit Price / List Price** set. This ensures the product is available for selection in Order Line Items and triggers can calculate totals correctly.



The screenshot displays the Salesforce interface for a Product record named 'Laptop'. The product code is LAP123. The 'Related' tab is selected, showing a list of 'Price Books (1)'. The table below shows the 'Standard Price Book' with a list price of ₹50,000.00, which is active and set to use the standard price.

Price Book Name	List Price	Use Standard Price	Active
Standard Price Book	₹50,000.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Buttons: 'Add to Price Book', 'View All'.

2. Account with Primary Contact Email

The account record includes a valid primary contact email. This field is used for customer communications (optional for future Flow emails) and ensures data consistency.

The screenshot shows the Salesforce interface for an Account named 'Test Retail Customer'. The top navigation bar includes 'Sales', 'Home', 'Opportunities', 'Leads', 'Tasks', 'Files', 'Accounts', 'Contacts', 'Orders', 'Campaigns', 'Dashboards', 'Reports', 'Chatter', and a search bar. The 'Accounts' tab is selected. The account details are displayed in a table with two columns: 'Related' and 'Details'. The 'Details' column shows fields like 'Account Owner' (Sathwik Manikyam), 'Account Name' (Test Retail Customer), 'Parent Account', 'Account Number', 'Account Site', 'Type', 'Industry', 'Annual Revenue', and 'Primary Contact Email' (imsathwik2004@gmail.com). The 'Related' column shows fields like 'Rating', 'Phone', 'Fax', 'Website', 'Ticker Symbol', 'Ownership', 'Employees', and 'SIC Code'. On the right, there is an 'Activity' section with a 'Chatter' tab and a 'Filters' section. The 'Upcoming & Overdue' section shows 'No activities to show.' and 'No past activity. Past meetings and tasks marked as done show up here.'

3. Order Record

The Apex trigger calculates the total value of the order based on its line items. For orders \geq ₹50,000, the Approval Process locks the record automatically, updating the status to Pending Approval.

4. Order Line Items

The trigger updates the parent order total correctly when line items are added or modified. Line items include **Product**, **Quantity**, and **Unit Price**, and totals are automatically calculated.

Order Line Item
ITEM-0001

Related **Details**

Line Item Number
ITEM-0001

Order
00000106

Product
Laptop

Quantity
3

Line Item Total
₹1,50,000.00

Unit Price
₹50,000

Total Price
1,50,000.00

Created By
Sathwik Manikyam, 01/10/2025, 3:16 pm

Last Modified By
Sathwik Manikyam, 01/10/2025, 3:16 pm

To Do List

5. Approval Process

High-value orders ($\geq ₹50,000$) automatically enter the approval process, lock the record, and update the status to Pending Approval. Approvers are assigned as configured in the process.

Order
00000106

Account Name
Test Account

Contract Number

Order Start Date
01/10/2025

Status
Pending Approval

Order Amount
₹1,00,000.00

✓ Pending Approval

Approved

Rejected

✓ Mark Status as Complete

Related **Details**

Order Owner
Sathwik Manikyam

Order Number
00000106

Account Name
Test Account

Order Start Date
01/10/2025

Customer Authorized By

Company Authorized By

Contract Number

Order Amount
₹1,00,000.00

Total Value for Approval
₹1,50,000

Order Type

Status
Pending Approval

Shipping Address

Activity

Filters: All time • All activities • All types

Refresh • Expand All • View All


Upcoming & Overdue

No activities to show.
Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

To Do List








6. Apex Trigger



Setup

Home

Object Manager

Email

Apex Exception Email

Custom Code

Apex Classes

Apex Settings

Apex Test Execution

Apex Test History


Apex Triggers

Environments

Jobs

Apex Flex Queue

Apex Jobs



SETUP

Apex Test Execution

Apex Test Execution

Click Select Tests to choose one or more Apex unit tests and run them. To see the current code coverage for an individual class or your organization, go to the [Apex Classes](#) page.

Select Tests...

Developer Console

Options...

View Test History

Abort	
Status	Result
<div>Test Run: 2025-10-01 15:22:39, lmsathwik2004728@agentforce.com, (1 test class run)</div> <div> <div>✓</div> <div>(View) OrderLineItemTriggerTest_Final (1/1) Test Methods Passed</div> </div>	
<div>Test Run: 2025-10-01 15:17:16, lmsathwik2004728@agentforce.com, (1 test class run)</div> <div> <div>Detail</div> <div>Duration</div> <div>Class</div> <div>Method</div> <div>Pass/Fail</div> <div>Error Message</div> <div>Stack Trace</div> </div>	

Selected job is not yet complete.

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