A CRM Application for Wholesale Rice Mill

1. Project Overview

This project is focused on the **Rice Mill CRM Application**, designed to address the challenges of tracking rice production, daily sales, and inventory management in a wholesale rice mill. The goal is to deliver a comprehensive solution by leveraging **Salesforce CRM** to enhance operational efficiency, improve data accuracy, and streamline reporting. Through this project, we aim to provide real-time insights for owners, optimize resource allocation, and support the long-term goals of effective business management and growth in the rice mill industry.

2. Objectives

Business Goals:

- Streamline the daily tracking of rice production, sales, and inventory to improve operational transparency.
- Enhance customer relationship management by providing detailed insights on customer buying patterns and preferences.
- Optimize reporting and data analytics to enable data-driven decision-making for the rice mill's future planning and resource allocation.

Specific Outcomes:

- Implement detailed **Reporting and Dashboards** that generate daily summaries of rice production, sales, and income, accessible by the mill's owner.
- Develop a **Rollup Summary Field** to display total rice quantities supplied, giving accurate, up-to-date data on inventory levels.
- Utilize **Cross-Object Formula Fields** to calculate and display the total payment due based on rice quantity and price, simplifying financial tracking.
- Set up Validation Rules to ensure data accuracy and alert users of any missing or incorrect information

3. Salesforce Key Features and Concepts Utilized

The Rice Mill CRM Application includes the following essential features:

- 1. **Daily Reporting and Analytics**: Tracks daily rice production, sales, and revenue for real-time insights.
- 2. **Rollup Summary Fields**: Summarizes supplier contributions, showing total rice supplied per supplier.
- 3. **Cross-Object Formula Fields**: Calculates total payment amounts for rice purchases, aiding financial tracking.

- 4. Validation Rules: Ensures data accuracy, like verifying required fields are completed.
- 5. **Role-Based Access**: Customizes data access by role, allowing owners full visibility, with restricted access for employers and workers.
- 6. **Custom Dashboards**: Visualizes sales, top-selling rice types, and revenue trends for quick monitoring.

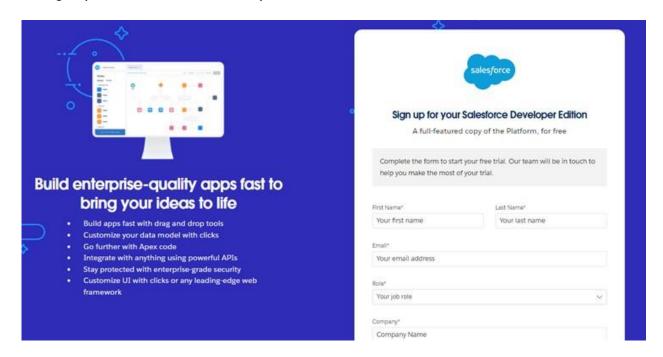
4. Detailed Steps to Solution Design

Prerequisites

- Salesforce Developer account
- Knowledge of Salesforce admin concepts
- Installed with two web browsers
- Good internet connectivity

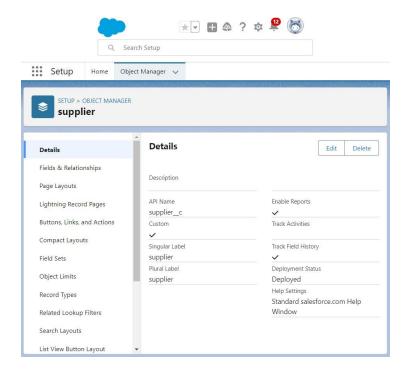
1. Creating Developer Account

Sign up for a Salesforce Developer account.

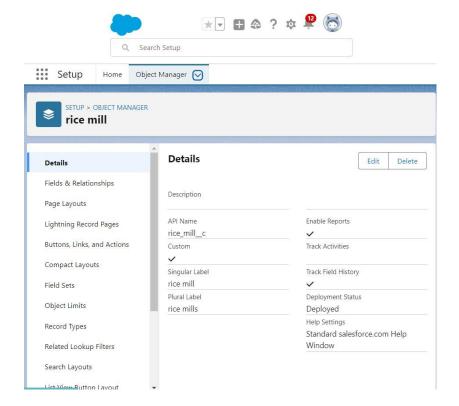


2. Creating Objects

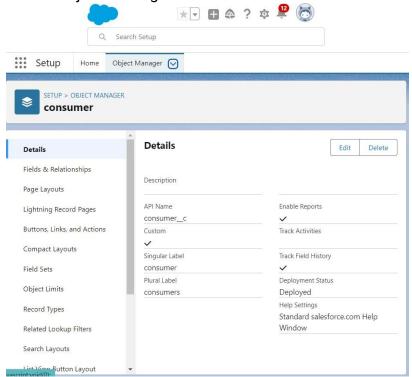
Supplier Object: Manage supplier details



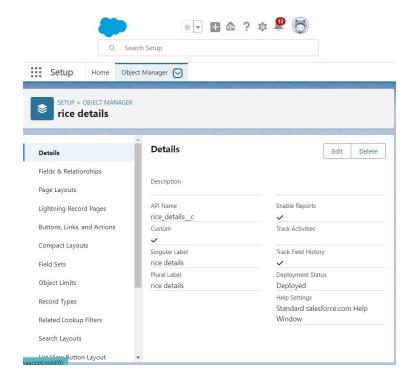
• Rice Mill Object: Manage rice mill details.



• Consumer object: Manage consumer details.

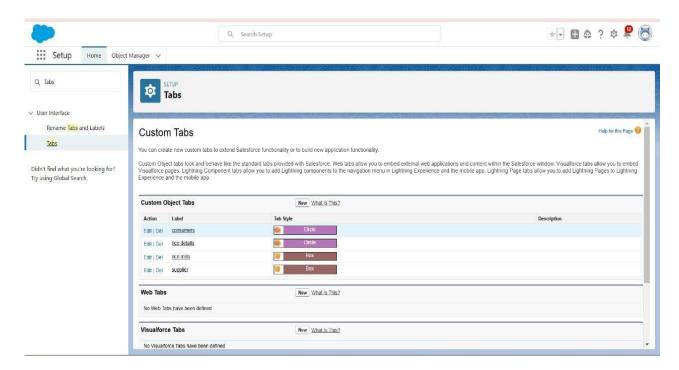


• Rice details: manage rice details.



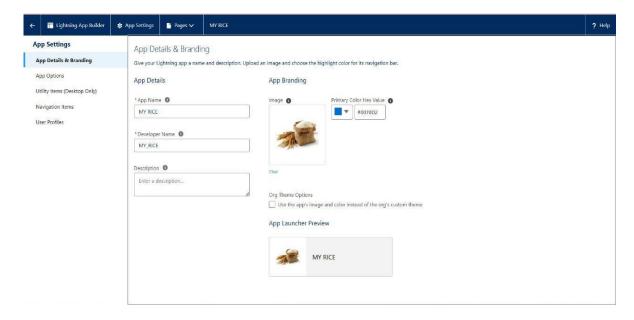
3. Creating Tabs

Create custom tabs for each object to easily access data.



4. Creating Lightning App

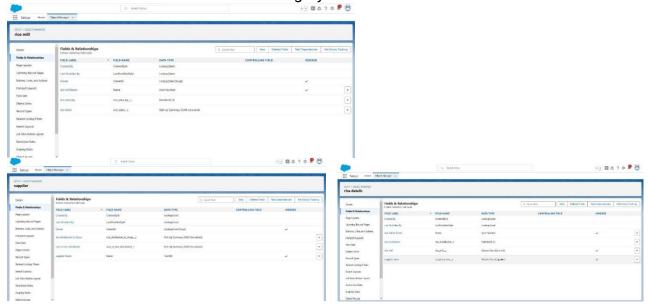
Steps to create a Lightning app for the CRM application.



5. Creating Fields

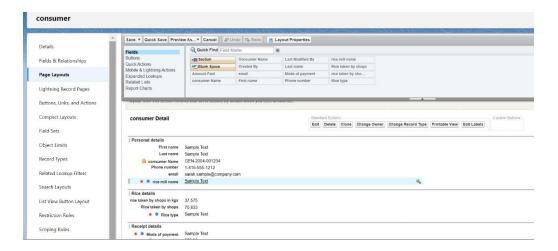
- Number fields: Track quantities and prices.
- Rollup Summary Fields: Summarize data from child to parent objects.

- Cross-Object Formula Fields: Calculate total amounts.
- Validation Rules: Ensure data integrity.



6. Creating Page Layouts

Page Layout in Salesforce allows us to customize the design and organize detail and edit pages of records in Salesforce.



7. Creating Profiles, Roles, and Role Hierarchy

- A profile is a group/collection of settings and permissions that define what a user can do in salesforce.
- Create roles and set up a role hierarchy to establish data access levels.



8. Creating Users

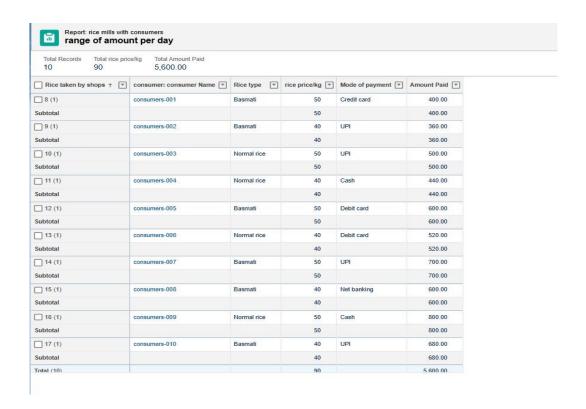
• Add users to the Salesforce organization and assign appropriate profiles and roles.

9. Creating Permission Sets

Define permission sets to grant additional permissions to users beyond their profiles.

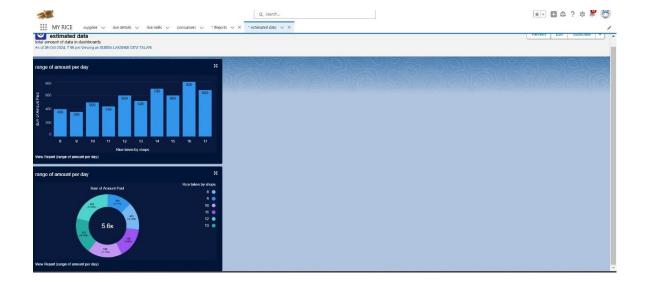
10. Creating Reports

Create detailed reports to track rice production, sales, and other key metrics.



11. Creating Dashboards

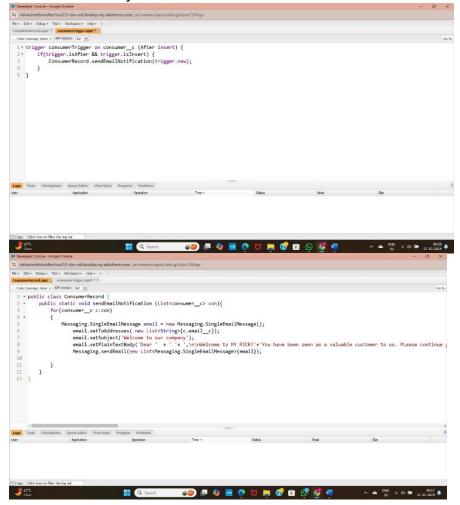
• Design dashboards to provide visual summaries of key metrics and reports.



5. Testing and Validation

Unit Testing: Create tests for ConsumerRecord and consumerTrigger to validate email notifications and trigger behavior.

User Interface Testing: Confirm that custom tabs, layouts, and trigger-related actions display and function correctly in the UI.



6. Key Scenarios Addressed by Salesforce in the Implementation Project

- Daily Sales Tracking: Automates daily reports on rice quantities, types, and revenues.
- Automated Notifications: Notifies customers upon specific triggers, enhancing engagement.
- Data Security and Integrity: Uses validation rules and permissions to safeguard data quality and access.

7. Conclusion

The CRM application successfully streamlines daily operations in the rice mill, enhancing efficiency, automates daily reporting, secures data, and provides valuable insights, enabling better resource management and decision-making, and increased customer satisfaction in the rice mill factory.