A CRM Application for Wholesale Rice Mill

1. Project Overview

This project centers around building a dedicated **CRM application** tailored for a **Wholesale rice mill**, addressing key challenges in tracking rice production, managing daily sales, and overseeing inventory. By utilizing Salesforce CRM, the solution aims to boost operational efficiency, ensure accurate data handling, and simplify reporting processes. This CRM system will enable the rice mill to adapt quickly to changing demands and make informed decisions based on up-to-date data. Ultimately, the application will provide owners with valuable real-time insights, streamline resource management, and support the long-term growth and success of the business in the rice mill industry, laying a foundation for enhanced productivity and sustainable growth.

2. Objectives

Business Goals:

- Make it easier to track daily rice production, sales, and inventory, giving better visibility into operations.
- Build stronger customer relationships by understanding buying patterns and preferences more deeply.
- Improve reporting and data insights to help the rice mill make smart, data-backed decisions for future planning and resource management.

Specific Outcomes:

- Implement reports and dashboards that give the mill owner clear daily summaries of rice production, sales, and income.
- Add a Rollup Summary field to track total rice quantities supplied, helping maintain accurate, up-to-date inventory levels.
- Use Cross-Object Formula Fields to auto-calculate the total payment due based on rice quantity and price, simplifying financial tracking.
- Set up Validation Rules to ensure data accuracy and prompt users if any information is missing or incorrect.

3. Salesforce Key Features and Concepts Utilized

The **Rice Mill CRM Application** includes the following essential features:

1. **Daily Reporting and Analytics**: Provides real-time insights by tracking daily rice production, sales, and revenue.

- 2. **Rollup Summary Fields**: Displays a summary of each supplier's contribution, highlighting the total rice supplied by each.
- 3. **Cross-Object Formula Fields**: Calculates total payment amounts for rice purchases, aidingfinancial tracking.
- 4. Validation Rules: Ensures data accuracy, like verifying that 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 quickmonitoring.

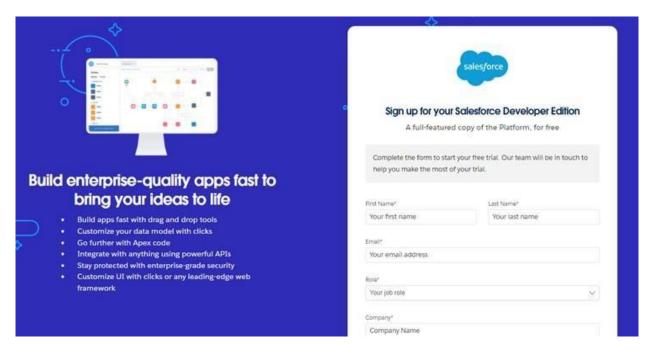
4. Detailed Steps to Solution Design

Prerequisites

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

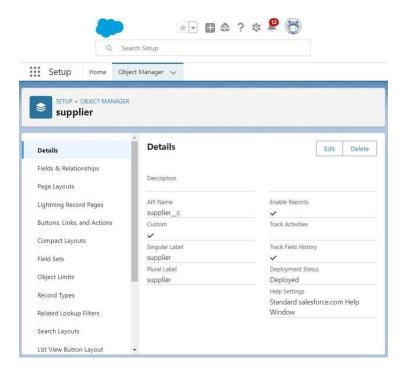
1. Creating a Developer Account

• Sign up for a Salesforce Developer account.

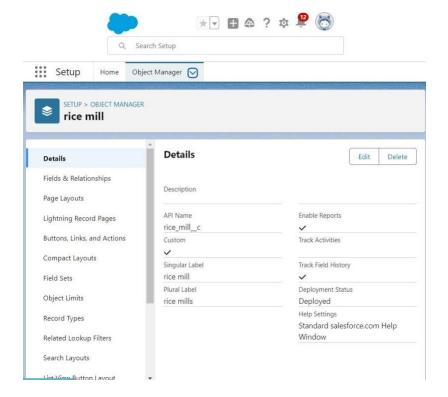


2. Creating Objects

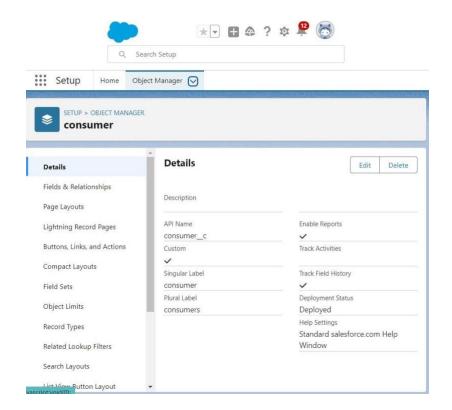
• Supplier Object: Manage supplier details



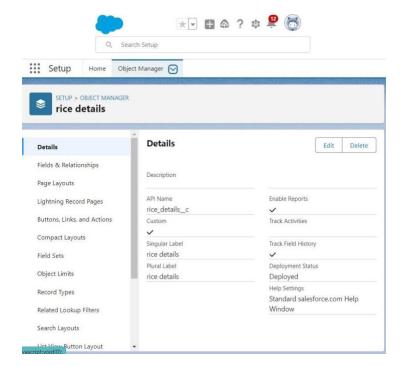
• Rice Mill Object: Manage rice mill details.



• Consumer object: Manage consumer details.

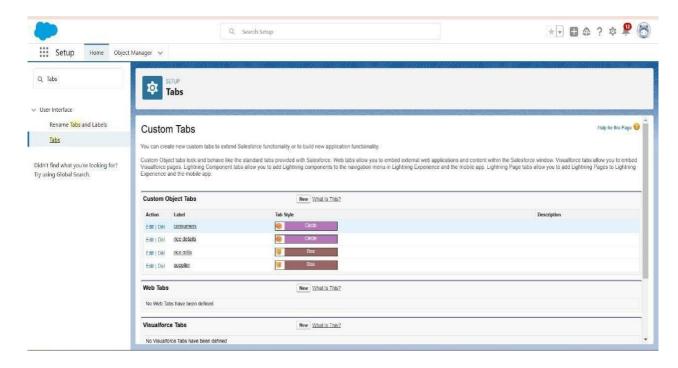


• Rice details: manage rice details.



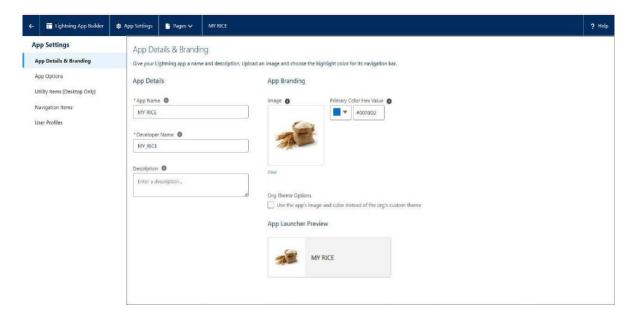
3. Creating Tabs

• Create custom tabs for each object to easily access data.



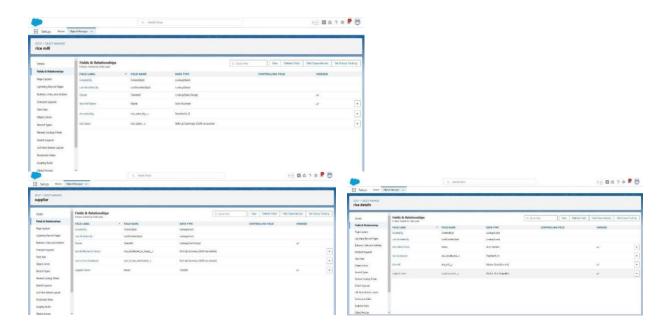
4. Creating Lightning App

• Steps to create a Lightning app for the CRM application.



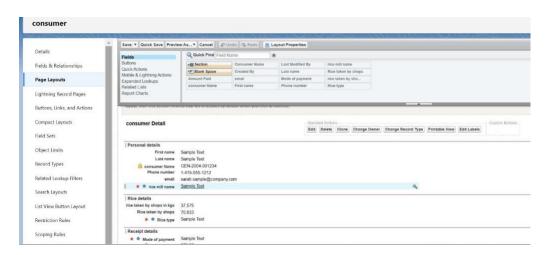
5. Creating Fields

- 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 organize details 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

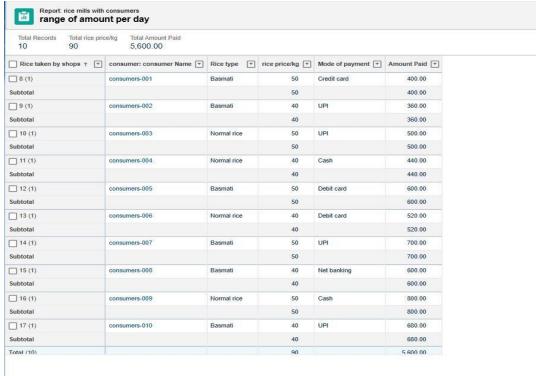
• Add users to the Salesforce organization and assign appropriate profiles and roles.

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

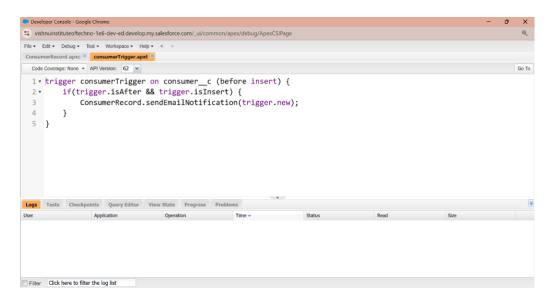
• Design dashboards to provide visual summaries of key metrics and reports.



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.



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6. Key Scenarios Addressed by Salesforce in the Implementation Project

- **Daily Sales Tracking:** Automates the generation of daily reports on rice quantities, types, and revenue.
- **Automated Notifications:** Sends notifications to customers based on specific triggers, improving engagement and communication.
- **Data Security and Integrity:** Implements validation rules and permissions to ensure data quality and control access.

7. Conclusion

The CRM application successfully streamlines daily operations in the rice mill, enhancing efficiency, automating daily reporting, securing data, and providing valuable insights, enabling better resourcemanagement and decision-making, and increasing customer satisfaction in the rice millfactory.