

Prepared by

Kala Surya Kiran

Kalasuryakiran12@gmail.com

MallaReddy University

Abstract

The Rice Mill CRM Application is a comprehensive solution designed for daily management of rice production and sales inventory at rice mill factories. By leveraging Salesforce CRM, the application aims to enhance customer experiences, optimize store operations, and boost overall efficiency. It features detailed reporting and dashboards for daily sales and revenue analytics, helping owners make informed decisions. The application includes roll-up summary fields that aggregate data from child to parent objects, and cross-object formula fields to calculate total payable amounts based on rice quantity and price per kilogram. Validation rules ensure data accuracy, while permission sets and roles manage access control, allowing owners to view all employee records and employers to access only worker records. To effectively develop and use this application, users will need a Salesforce Developer account, knowledge of Salesforce admin concepts, and reliable internet connectivity. Through this project, users will gain experience with object relationships, formula fields, validation rules, page layouts, roll-up summary fields, and creating insightful reports and dashboards. The application is specifically tailored to meet the needs of rice mill factories, offering a user-friendly and efficient tool for managing operations and making data-driven decisions.

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Intoduction

The Rice Mill CRM Application is a tailored solution designed to enhance the management and efficiency of wholesale rice mills by leveraging Salesforce's powerful CRM capabilities. This comprehensive application streamlines the process of tracking daily rice production, sales, and inventory, providing detailed reports and analytics to factory owners. It features robust reporting and dashboard tools that offer insights into daily sales volumes, revenue, popular products, and customer trends, helping owners make data-driven decisions. Key functionalities include rollup summary fields that aggregate data from related records, cross-object formula fields for accurate financial calculations, and validation rules to ensure data accuracy. Permission sets and roles are configured to control data access, allowing owners to view all records while employers see only relevant worker records. To develop and utilize this application effectively, users need a Salesforce Developer account, a solid understanding of Salesforce admin concepts, two web browsers, and reliable internet connectivity. Through this project, users will gain hands-on experience with Salesforce object management, formula fields, validation rules, page layouts, and reporting, providing a practical and feature-rich solution tailored to the needs of a rice mill factory.

1.Salesforce

- **Creating DeveloperAccount**: Created a developer org in salesforce platform by filling relevant details.
- Account Activation: Then I've got the mail, verifiedmy account and set up a password.

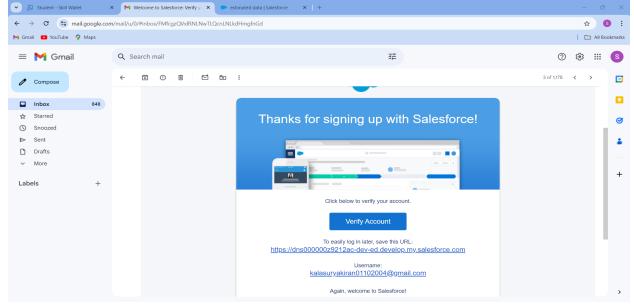


FIG 1.1 Verification Mail

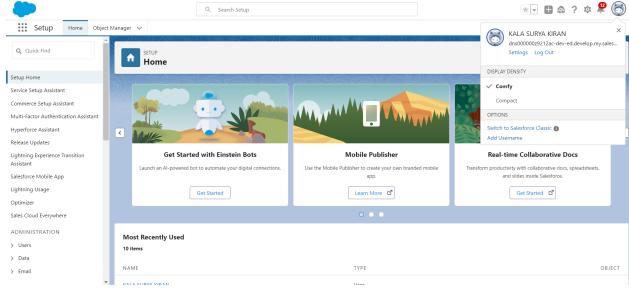


FIG 1.2 Account

2.Object

Supplier Object: Represents entities that provide raw materials or products. Includes fields for supplier name, sum of the distributed.

Rice Mill Object: Represents rice processing units. Includes fields for mill name, rice distributed by shops, rice price/kg and rice taken.

Consumer Object: Represents customers or clients purchasing rice. Includes fields for consumer name, contact details, and purchase history,picklist,etc.

Rice Details Object: Represents specific details about rice products. Includes fields for rice type, grade, and price.

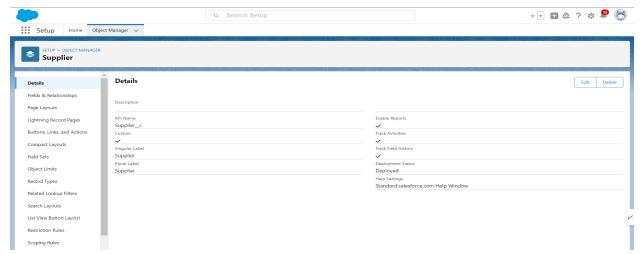


FIG 2.1: Create Supplier Object

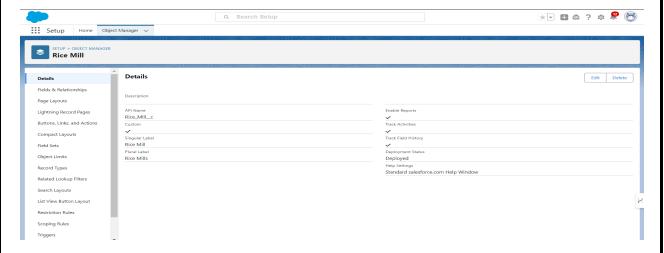
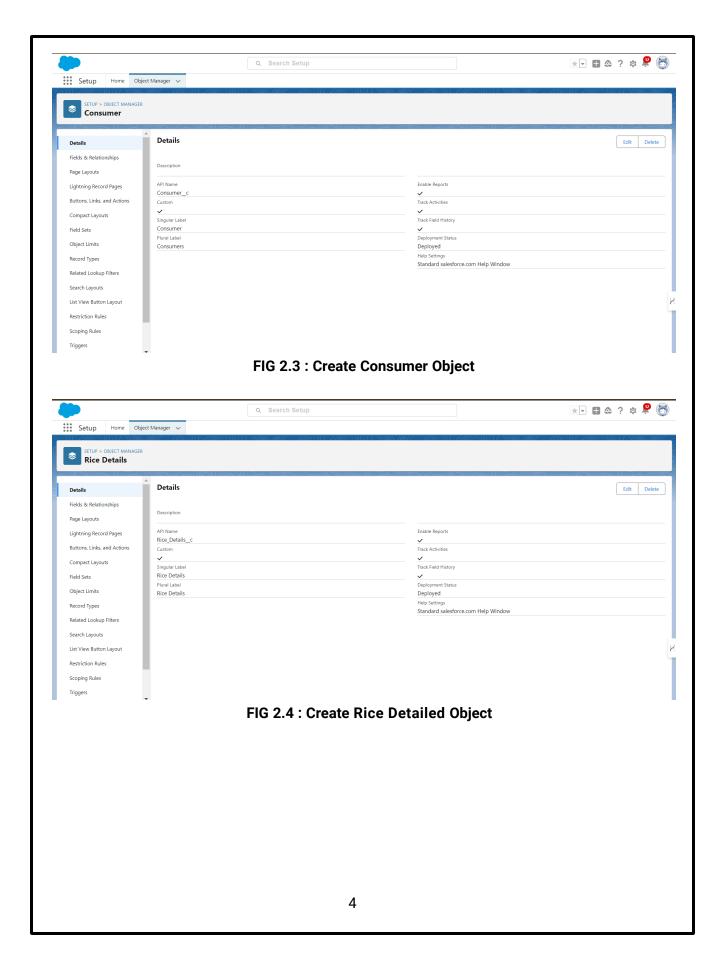


FIG 2.2 : Create Rice Mill Object



3.Tabs

- **-Creating a Custom Tab**: Select the Tabs option in Quick find box and create new tabnamed Assignment.
- **-Creation of remaining Tabs:** Same a consumer tab creation remaining should be followed.

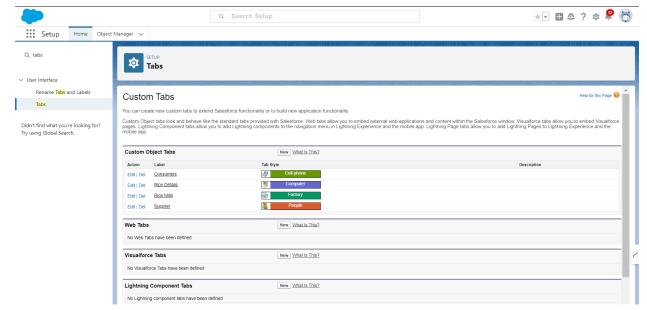


FIG 3.1 :Custom Tabs

4. The Lightning App

- **Create a Lightning App**: Again in quick find box go to app managerand create new lightning app with the name of projectand some furtherdetails.
 - Navigation Items
 - User profiles
 - Utility items

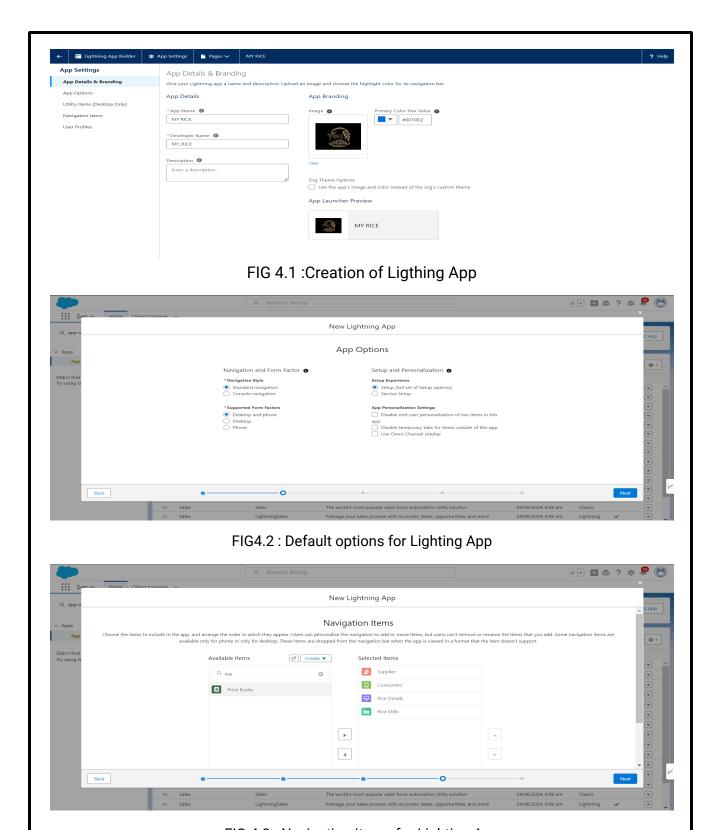


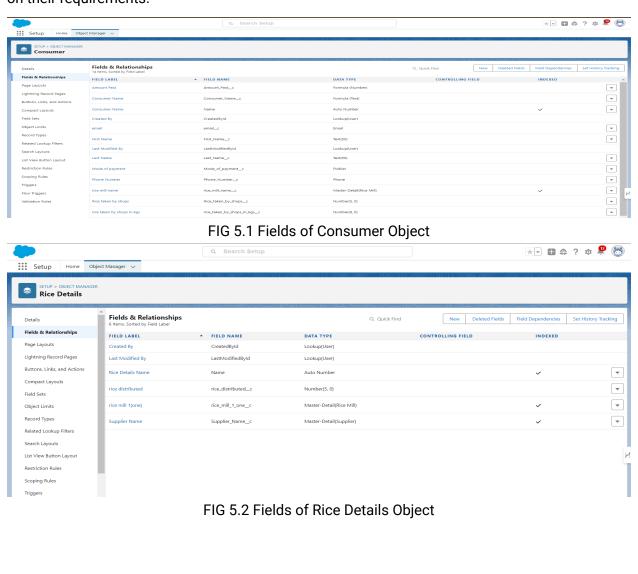
FIG 4.3: Navigation Items for Lighting App

5.Fields

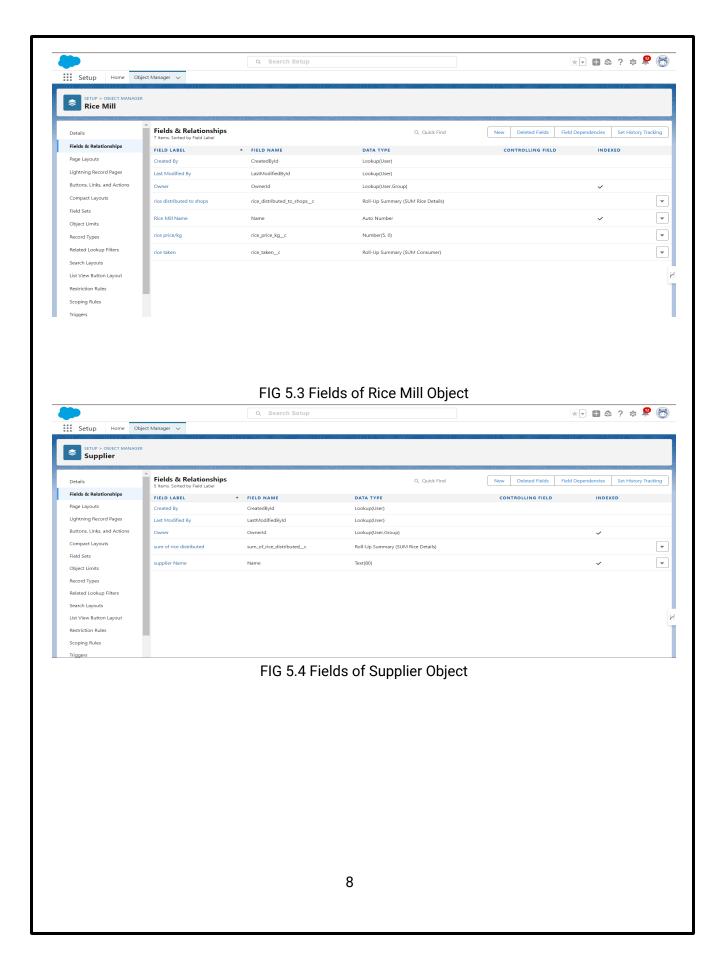
Fields represent the data stored in the columns of a relational database. It can also hold any valuable information that you require for a specific object. Hence, the overall searching, deletion, and editing of the records become simpler and guicker.

Types of Fields

- 1. Standard Fields: Predefined fields that perform standard tasks and cannot be deleted if they are required fields. Common standard fields include Created By, Owner, Last Modified, and fields created during object creation.
- **2. Custom Fields:** Flexible fields that users can add, remove, or modify according to specific needs. These fields are optional and can be customized by each organization or company based on their requirements.



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6.Page Layouts

Page Layout in Salesforce allows us to customize the design and organize detail and edit pages of records in Salesforce. Page layouts can be used to control the appearance of fields, related lists, and custom links on standard and custom objects' detail and edit pages.

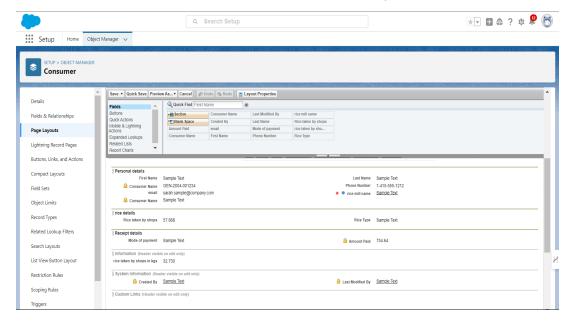


FIG 6.1 Creation Page Layout for Consumer Object

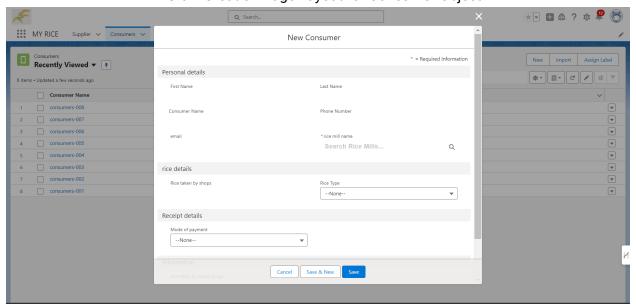


FIG 6.2 Page Layouts for Consumer Object

7.Profiles

In Salesforce, a profile is a collection of settings and permissions that define what users can do within the platform. Profiles control access to objects, fields, tabs, applications, Apex classes, Visualforce pages, page layouts, record types, login hours, and IP ranges. They help manage user access based on their job roles, ensuring they have the necessary permissions to perform their tasks effectively.

Types of Profiles in Salesforce:

- **1.Standard Profiles:**These are the predefined profiles provided by Salesforce. These profiles come with default permissions for standard objects and are tailored to common job roles like Contract Manager, Read Only, Marketing User, Solutions Manager, Standard User, and System Administrator. Standard profiles cannot be deleted, ensuring that essential roles and permissions remain intact within the system for consistent security and access control.
- **2.Custom Profiles:**These are profiles created by users to meet the specific needs of their organization. These profiles can be fully customized and adjusted based on the requirements of different job functions, providing flexibility in managing user access. Custom profiles can be deleted if there are no users assigned to them, allowing organizations to tailor their security and access settings precisely.

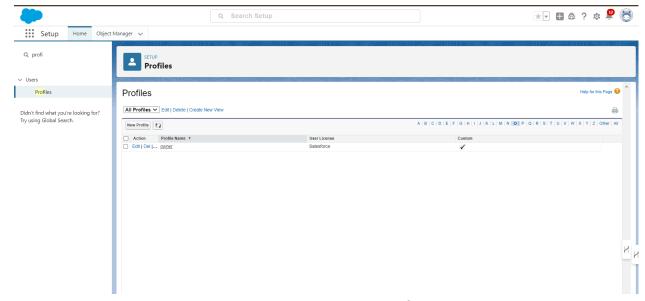
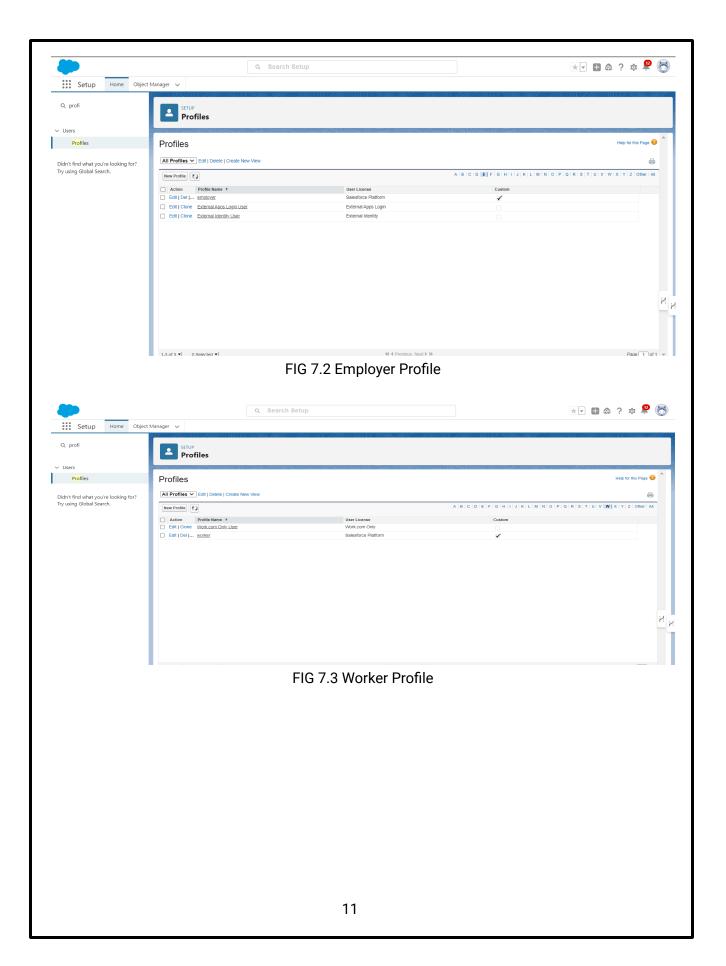


FIG 7.1 Owner Profile



8. Roles & Role Hierarchy

A role in Salesforce defines a user's visibility access at the record level. Roles may be used to specify the types of access that people in your Salesforce organization can have to data. Simply put, it describes what a user could see within the Salesforce organization.

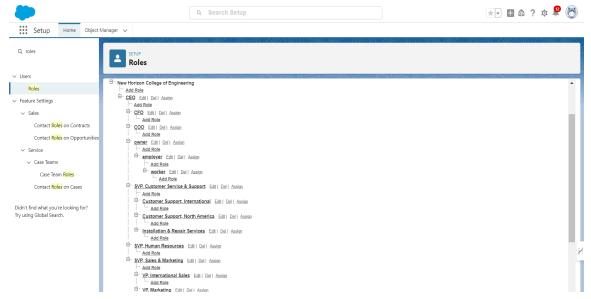


FIG 8.1 Roles & Role Hierarchy

9.Users

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account. The user account identifies the user, and the user account settings determine what features and records the user can access.

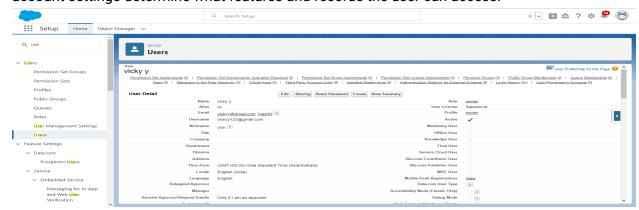
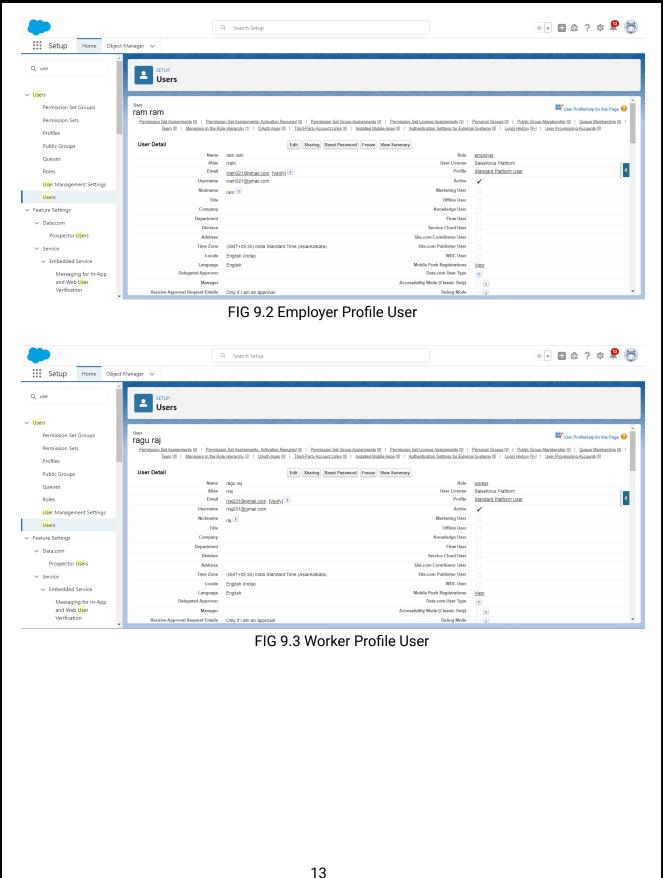


FIG 9.1 Owner Profile User



10.Premission Sets

A permission set is a collection of settings and permissions that give users access to various tools and functions. Permission sets extend users' functional access without changing their profiles and are the recommended way to manage your users' permissions.

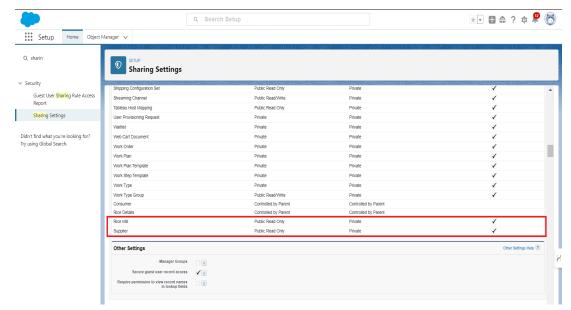


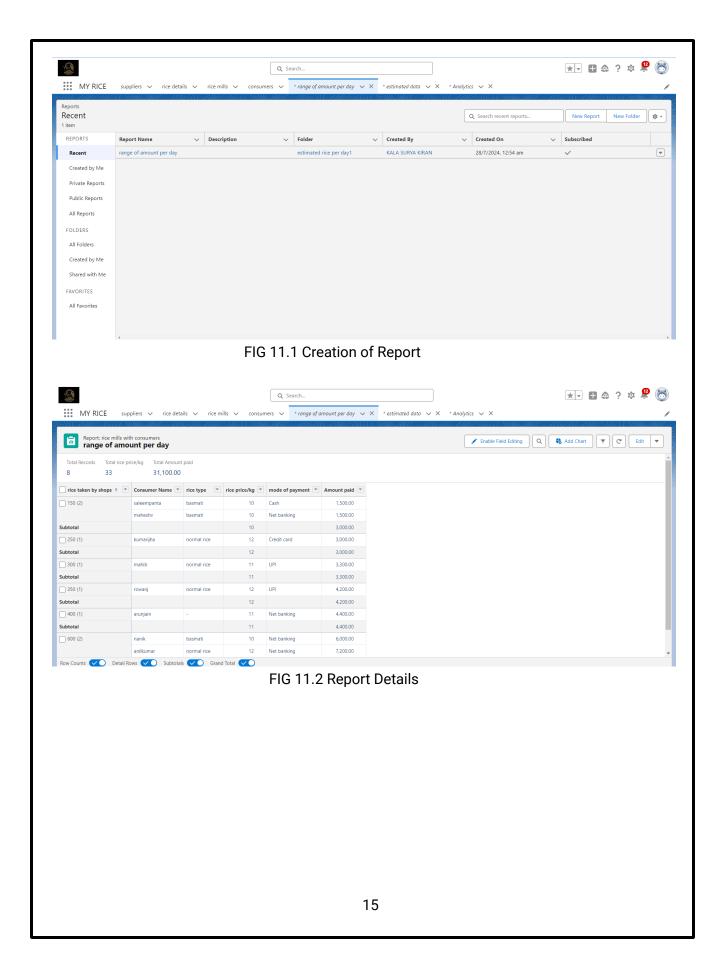
FIG 10.1 Permission Sets

11.Reports

Reports give you access to your Salesforce data. You can examine your Salesforce data in almost infinite combinations, display it in easy-to-understand formats, and share the resulting insights with others. Before building, reading, and sharing reports, review these reporting basics.

Types of Reports in Salesforce

- 1. Tabular
- 2. Summary
- 3. Matrix
- 4. Joined Reports



12.Dashboards

Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing dashboards, review these dashboard basics.

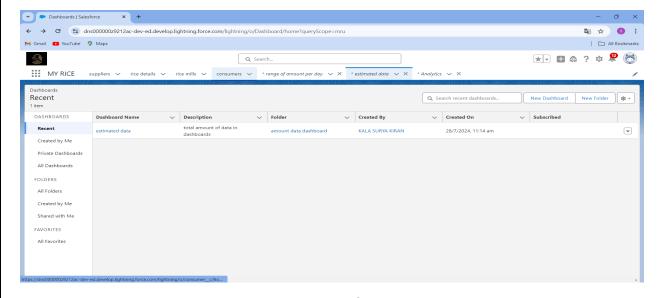


FIG 12.1 Creation of DashBoard

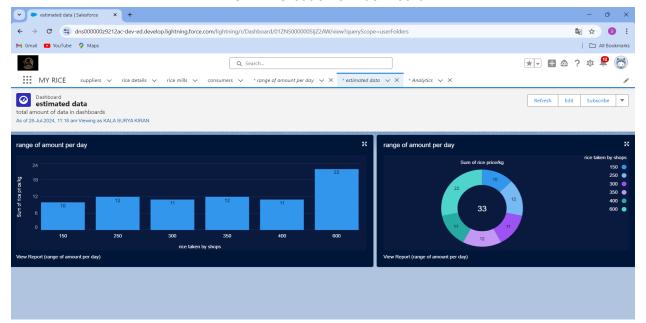


FIG 12.2 Output