# SKP ENGINEERING COLLEGE

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# 1. Project Overview:

This project is focused on " To Supply Leftover Food to Poor ", designed to address the critical issue of food waste and hunger. The goal is to deliver a comprehensive solution by leveraging Salesforce's data management and automation capabilities. Through this project, we aim to enhance food distribution efficiency, community engagement, and data-driven decision making and support the long-term goals of reducing food waste and alleviating hunger in our community.

# 2. Objectives:

**Business Goals:**

Reduce Food Waste:

Significantly decrease the amount of food waste generated by local businesses and individuals.

Alleviate Hunger:
Provide nutritious meals to underprivileged communities, aiming to improve their overall health and well-being.

Community Engagement:
Foster a sense of community by involving local businesses, volunteers, and residents in the food redistribution process.

### **Specific Outcomes:**
Reduction in Food Waste:
Achieve a measurable decrease in the amount of food waste from participating donors by 30% within the first year.
Increased Meals Provided:
Distribute an average of 1,000 meals per month to underprivileged communities, ensuring consistent access to nutritious food.
Expanded Donor Network:
Grow the network to include at least 50 new food donors, such as restaurants, grocery stores, and food producers, by the end of the first year.

## 3. Salesforce Key Features and Concepts Utilized:

- **Custom Objects**: Created objects for Dropoff point, Volunteer, Venue, Task, and Execution Detail.
- **Lookup Relationships**: Connected objects (e.g., Dropoff point toVolunteer, Task to Dropoff point) for relational data management.
- **Salesforce Flow**: Automations for appointment Venue details, invoice generation, and status updates.
- **Validation Rules**: Ensuring correct data entry, such as valid delivery dates and Volunteer shift reminders.
- **Reports and Dashboards**: For tracking venue and dropoff point, volunteer task.
- **Page Layouts and Record Types**: Customized layouts for different users (e.g., food donor vs. volunteer
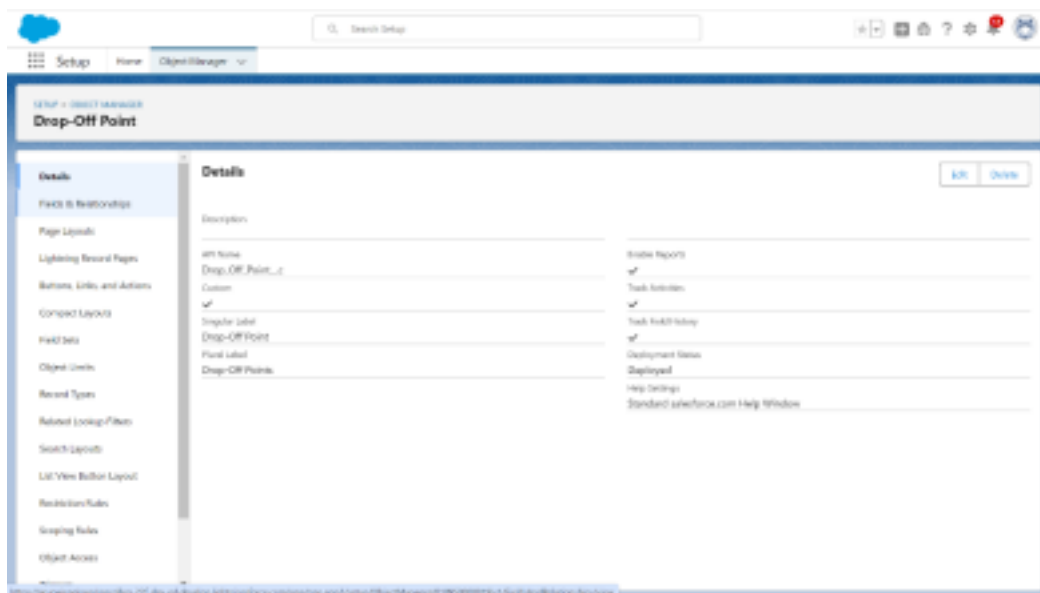
coordinators)

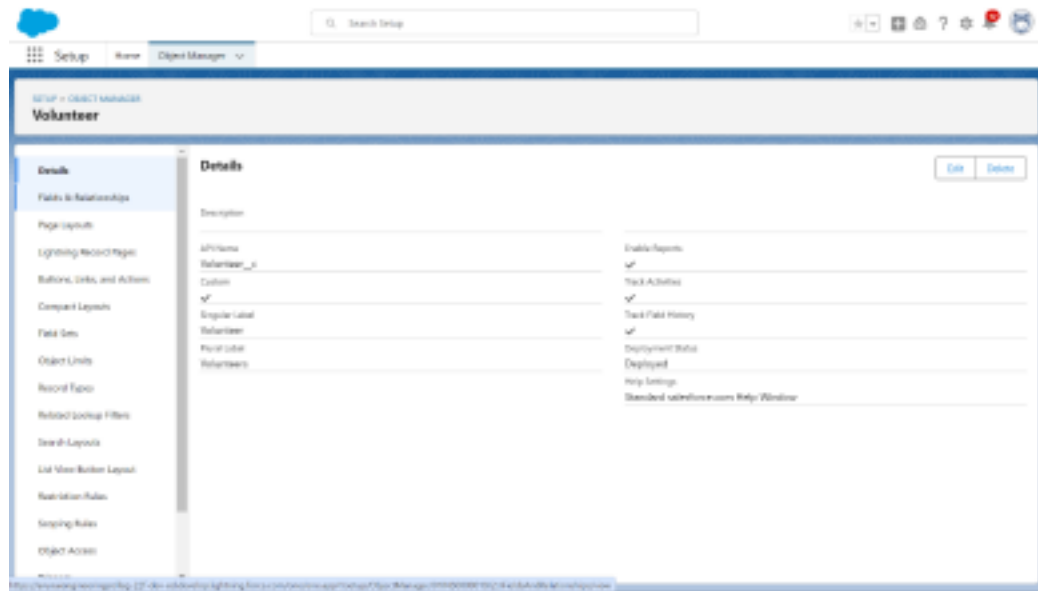# 4.Detailed Steps to Solution Design:

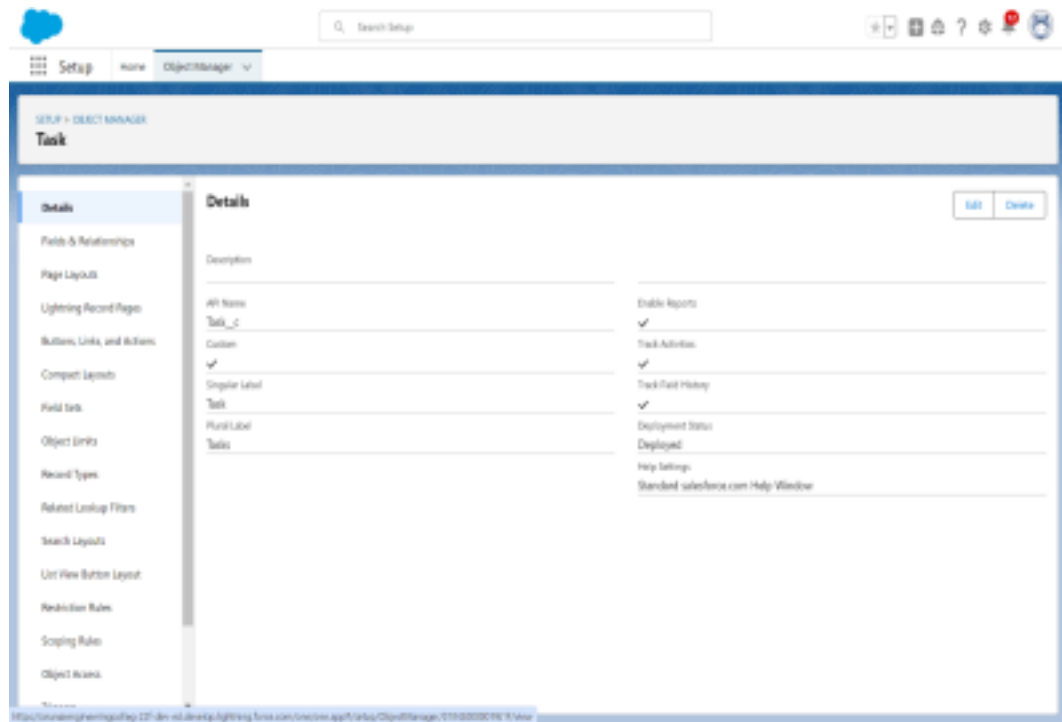## 1. To create an custom object

## a. Venue object:
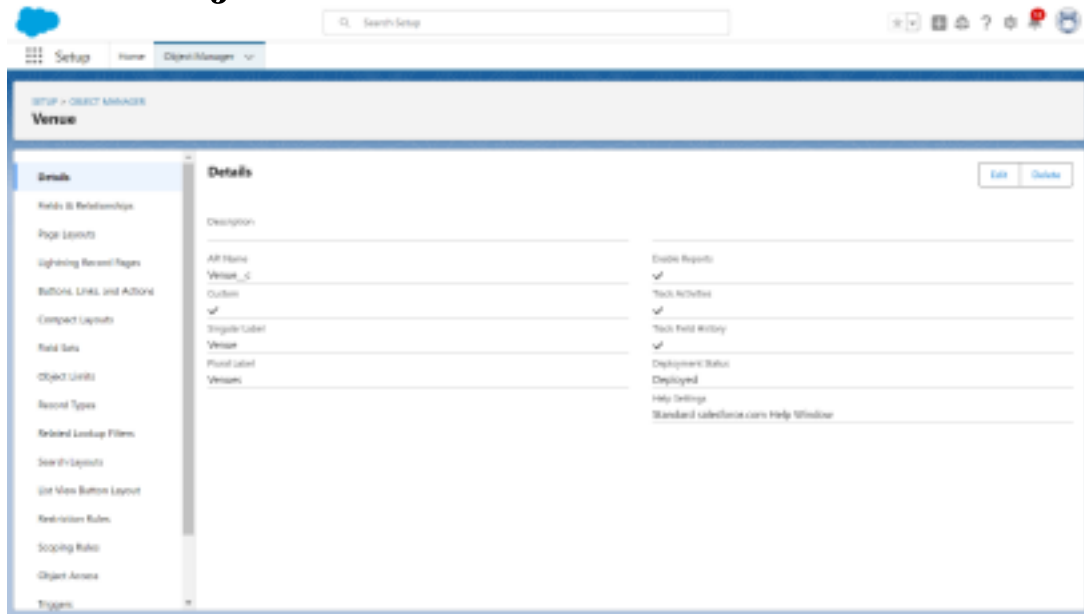


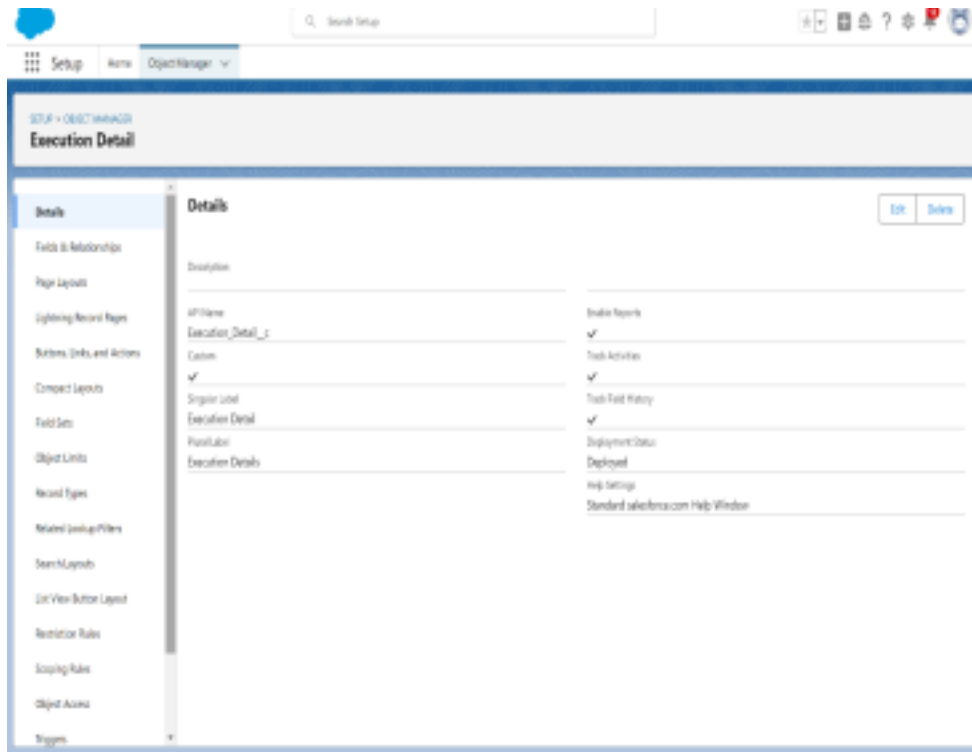## b. DropOff Point object:
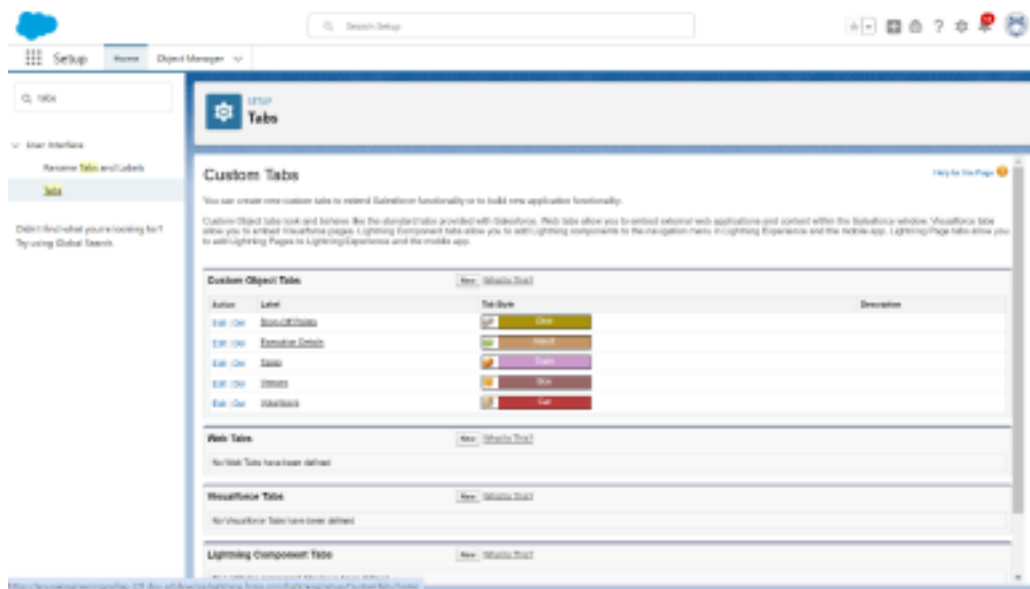


## c. Volunteer Object:

## d. Task Object:



## e. Execution Detail Object:
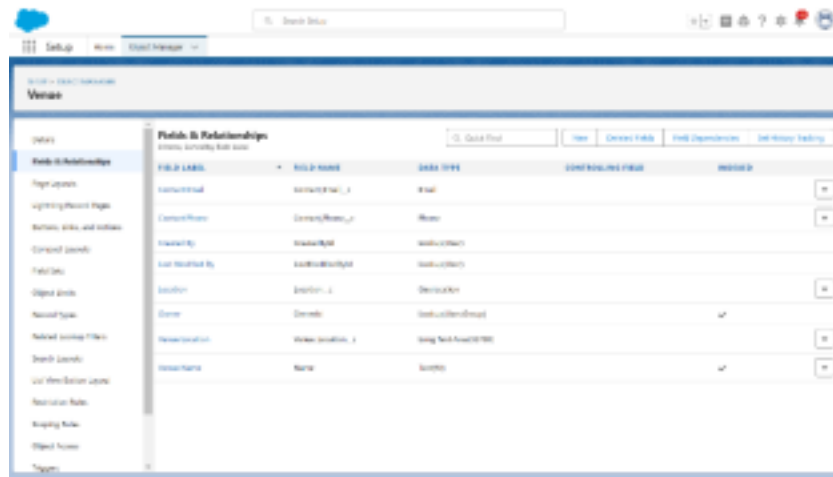
## 2.Tab:

## Create a Custom tab:
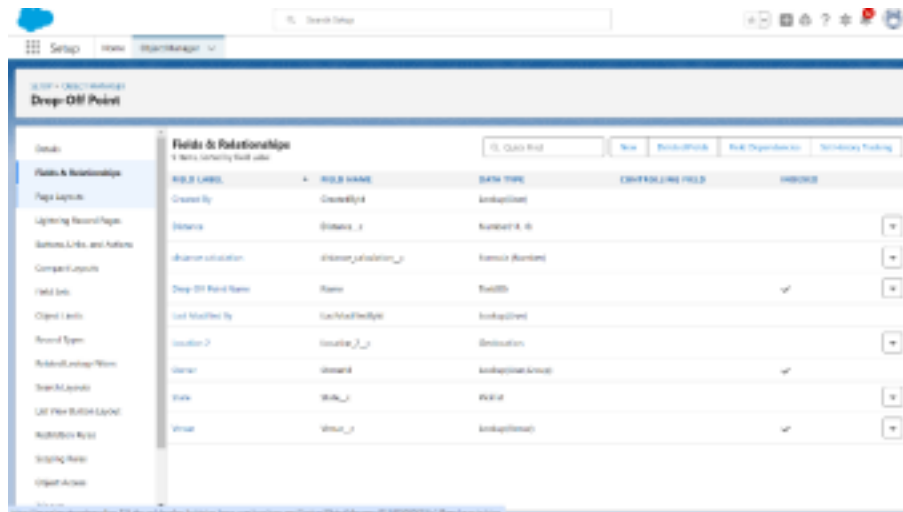


## 3. Fields and Relationship:

## a. Venue:

## b. DropOff point:



## c. Volunteer:

## d. Task:



## e. Execution Detail:

# 4.Flows:
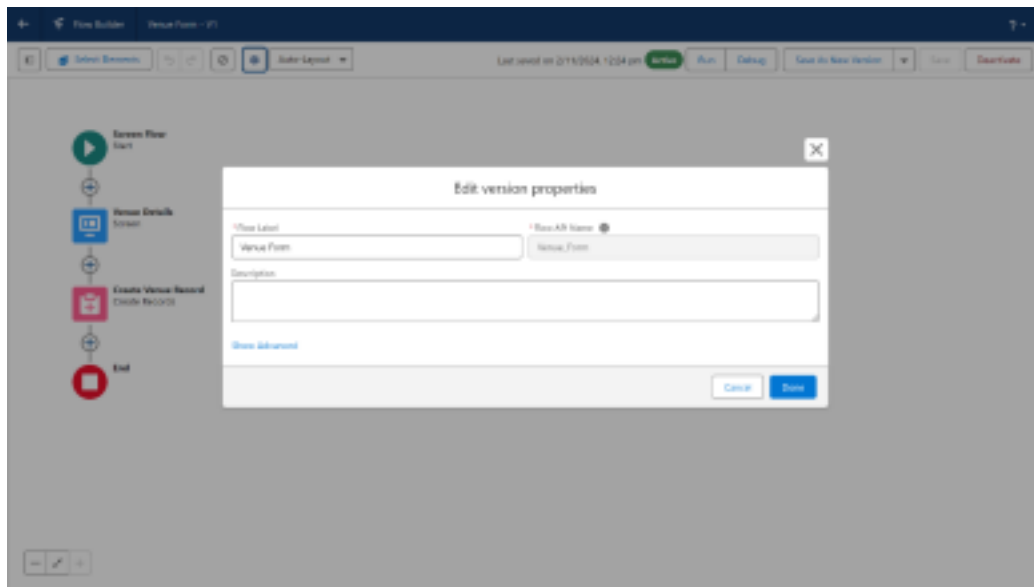


# 5.Users:

**6.Public Groups:**

**7.Report Types:**

# 8.Dashboard:

# 9.Sharing Rules:

### 5.Testing and Validation:

### Apex Triggers:

**Reports and Dashboards:**

**a. Venue and Drop Off Point records:**

**b. Volunteer Task records:**

# c.Dashboard:

**5.Key Scenarios Addressed by Salesforce in the Implementation Project:**

**Food Donation Management**:
- Tracking and managing food donations from various donors (restaurants, supermarkets, etc.).
- Ensuring timely pickups and deliveries of food items to recipients.

**Volunteer Coordination**:
- Managing a database of volunteers, their availability, and skills. ❖ Scheduling volunteer shifts and tasks efficiently to maximize coverage.

**Logistics and Transportation**:
- Planning and optimizing routes for food collection and

distribution.

❖Monitoring the status of deliveries to ensure timely and safe transportation.

**Real-time Notifications**:

❖Automating alerts for food pickup schedules, distribution events, and volunteer tasks.

❖Ensuring all stakeholders are informed and coordinated.

**Data Analytics and Reporting**:

❖Generating reports to measure the impact of the project, including metrics like food waste reduction, number of meals provided, and volunteer hours.

❖Using dashboards to visualize data and make informed decisions.

**Compliance and Safety**:

❖Ensuring all food handling and distribution processes comply with health and safety regulations.

❖Validating data entries to maintain high standards of food safety.

**Community Engagement and Awareness**:

❖Managing campaigns to raise awareness about food waste and encourage community participation.

❖Tracking engagement metrics to evaluate the effectiveness of outreach efforts.

# 6.Conclusion:

The "To Supply Leftover Food to Poor" project has successfully addressed the critical issues of food waste and hunger in our community. Through this initiative, we have:

· Significantly reduced food waste by establishing a robust network of food donors and optimizing collection processes. · Provided thousands of nutritious meals to underprivileged communities, improving their health and well-being.

· Engaged and managed a dedicated team of volunteers, ensuring efficient food distribution and operational success.

· Leveraged Salesforce's powerful features to automate

workflows, enhance data accuracy, and streamline operations. ·
Conducted impactful awareness campaigns, fostering
community involvement and education on food waste issues.

Project link: https://arunaiengineeringcolleg-22f-dev
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