

# To Supply Leftover Food to Poor

BY

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# 1. Abstract

Food wastage is a growing concern across the world, with tons of edible food being discarded daily, while millions of people face food insecurity. The objective of this project, "Supply Leftover Food to Poor," is to create an efficient system that can help redistribute surplus food to the needy using Salesforce as the core platform for data management, process automation, and reporting.

This project aims to connect restaurants, grocery stores, and other food providers with volunteers and non-governmental organizations (NGOs) who can facilitate the delivery of surplus food to various drop-off points for distribution to the needy. The solution integrates several Salesforce custom objects, including Venues, Drop-Off Points, Tasks, Volunteers, and Execution Details, to track the entire process from food collection to distribution.

Through the use of custom workflows, automation, and reporting tools in Salesforce, the project ensures smooth coordination between donors, volunteers, and beneficiaries. Custom reports and dashboards provide stakeholders with valuable insights into the effectiveness of the operations, highlighting key metrics such as the number of successful food deliveries, volunteer performance, and the overall impact on food waste reduction.

This system also includes various security and sharing settings to ensure the right data is accessible to the right people, allowing for a transparent and collaborative environment. The project also addresses the critical need for timely delivery, reducing food spoilage through optimized task management and volunteer coordination.

Ultimately, this project serves as a scalable model for future expansion, enabling other communities and organizations to implement similar systems for tackling food waste and hunger issues. Through the strategic use of Salesforce's cloud-based platform, "Supply Leftover Food to Poor" not only promotes social good but also optimizes resources in the fight against global food wastage.

# Introduction

Food waste is a significant global issue, with millions of tons of perfectly edible food being discarded annually. At the same time, millions of people face chronic hunger and food insecurity. This disparity between food wastage and hunger presents an opportunity to create impactful solutions that can bridge the gap between surplus food and those in need. The "Supply Leftover Food to Poor" project aims to address this problem by leveraging modern technology to facilitate the redistribution of surplus food to underprivileged communities.

This project utilizes Salesforce, a robust and scalable cloud-based Customer Relationship Management (CRM) platform, to manage and streamline the process of food collection, volunteer coordination, and distribution logistics. Salesforce's customizable environment allows for the creation of custom objects, workflows, and reports that help organize the various elements involved in the food redistribution process, from food providers and volunteers to drop-off points and task assignments.

The system works by allowing food providers, such as restaurants, supermarkets, and event venues, to report surplus food. Volunteers and NGOs are then notified, who can facilitate the collection and delivery of the food to designated drop-off points. These drop-off points serve as distribution hubs where food is then provided to people in need.

The project also integrates automation for task assignments, data tracking, and reporting, ensuring efficient operations. It includes tools for monitoring the activity of volunteers, tracking food donations, and providing insights into areas where improvements can be made. Sharing rules and security settings ensure that access to sensitive information is controlled and appropriately distributed among users.

The "Supply Leftover Food to Poor" project not only helps reduce food wastage but also provides a practical, scalable solution to address hunger in local communities. The system's design ensures that the process is transparent, efficient, and capable of handling large volumes of food redistribution with minimal waste.

### 3. Project Objectives

List the key objectives of the project, such as:

- Create a centralized system for managing food donations.
- Track and manage volunteers and their tasks.
- Establish communication between donors, volunteers, and recipients.

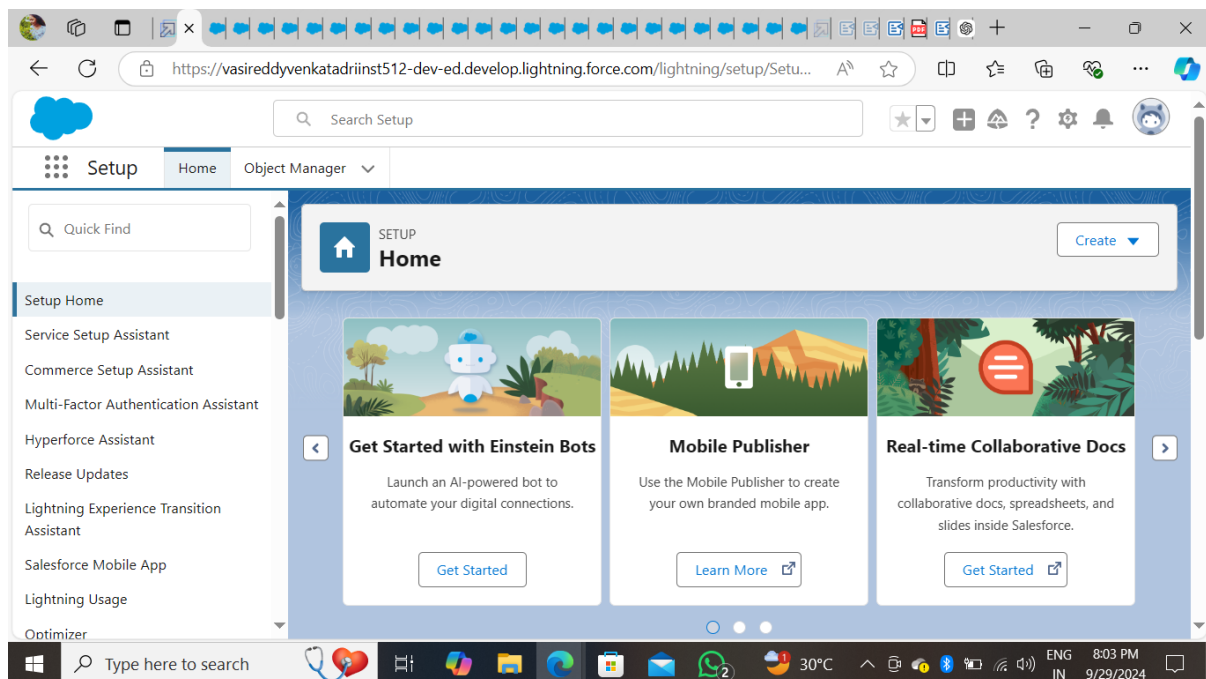
### 4. System Requirements

Outline the technical and functional requirements for the project, including:

- Salesforce licenses and permissions.
- User roles and access levels.
- Integration with other systems, if applicable.

### 5. Architecture Overview

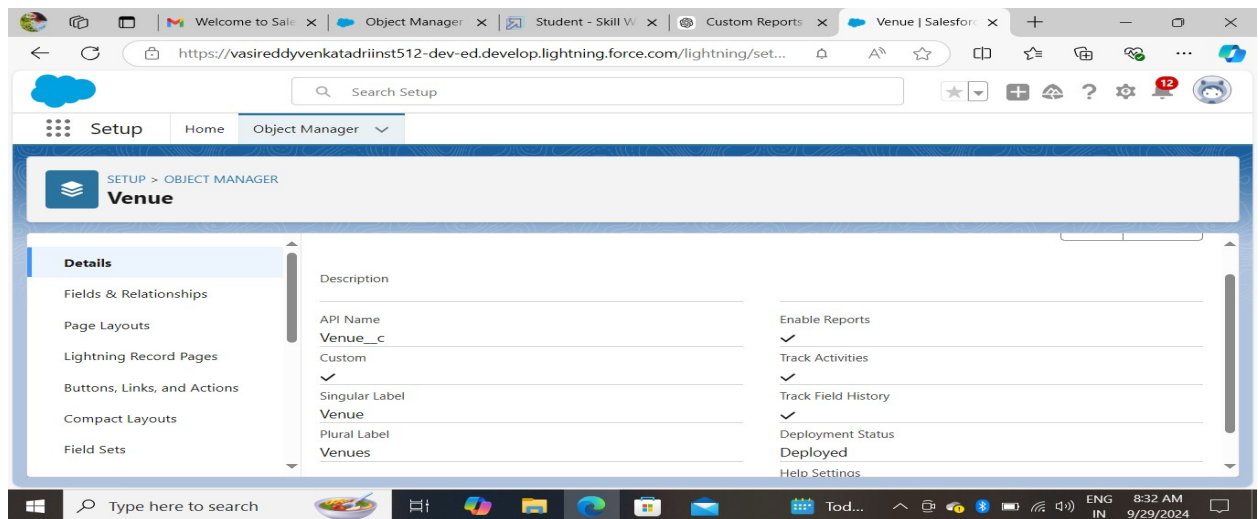
Provide a diagram and explanation of the system architecture, detailing how different components (objects, workflows, reports) interact.



## 6. Salesforce Custom Objects

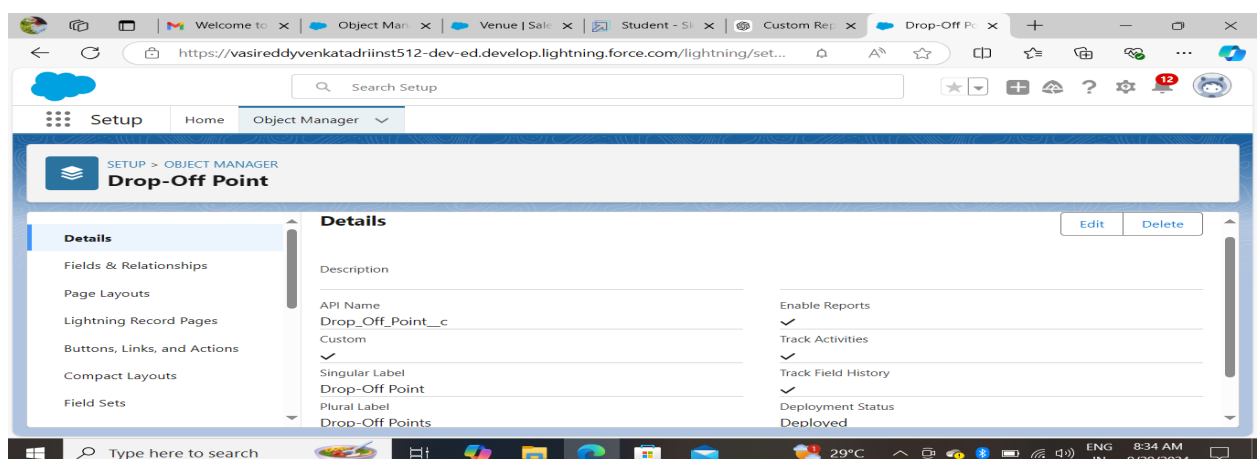
### 6.1 Venue

- Define the object and its purpose.
- Describe key fields and their functions.



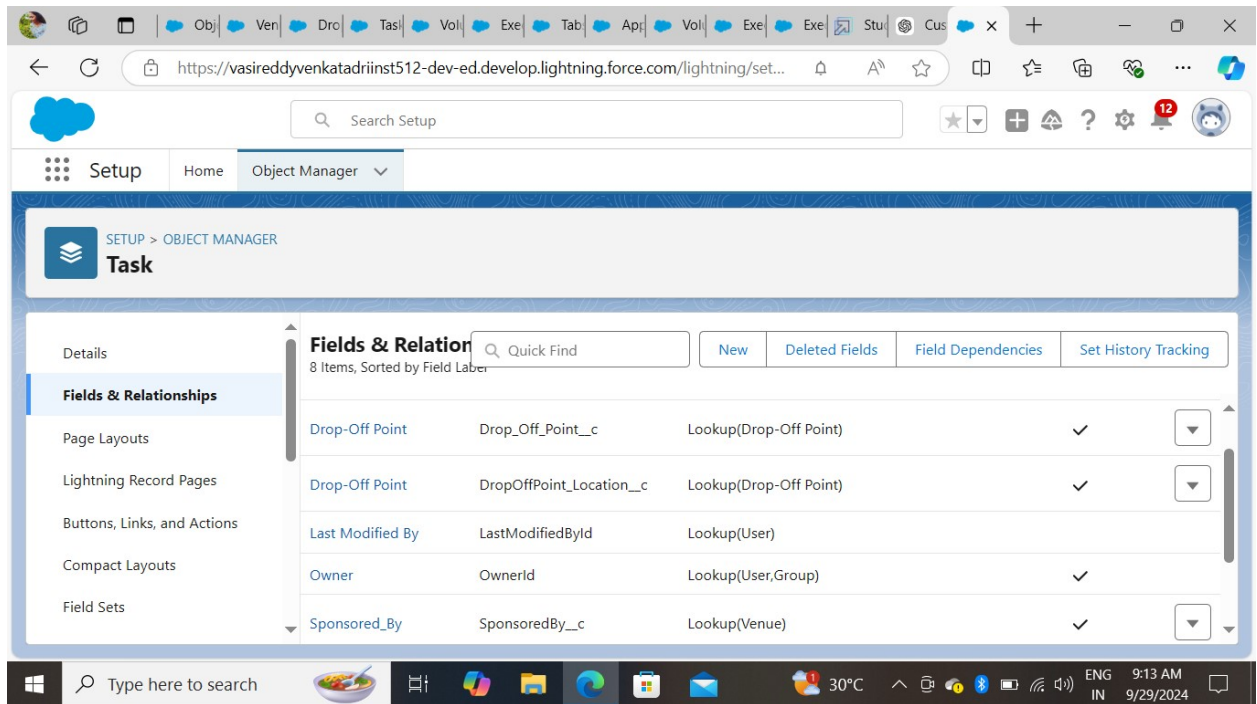
### 6.2 Drop-Off Point

- Discuss how drop-off points are created and managed.
- Include fields such as location, distance, and capacity.



### 6.3 Task

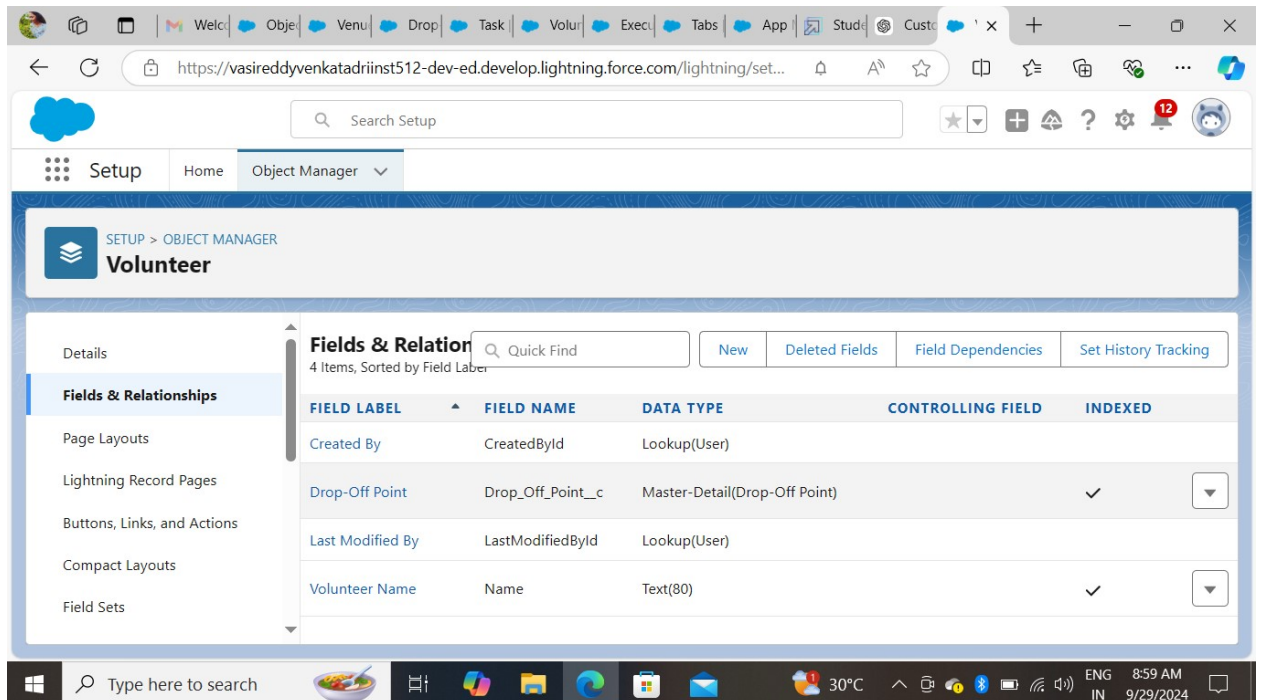
- Explain how tasks are assigned to volunteers and tracked.



## 6.31 Tabs

## 6.4 Volunteer

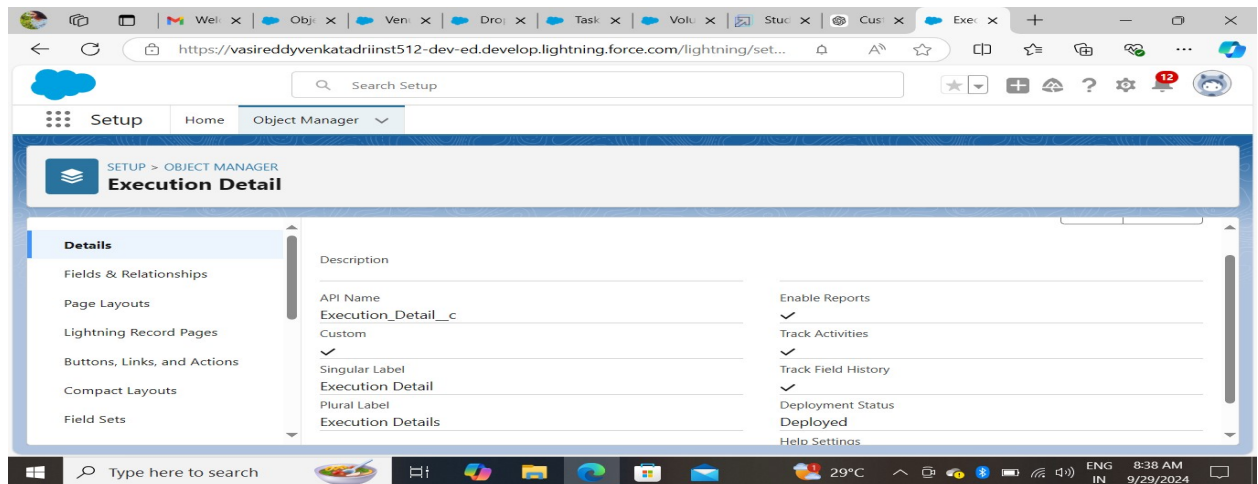
- Describe how volunteers are registered, assigned to tasks, and managed.





## 6.5 Execution Details

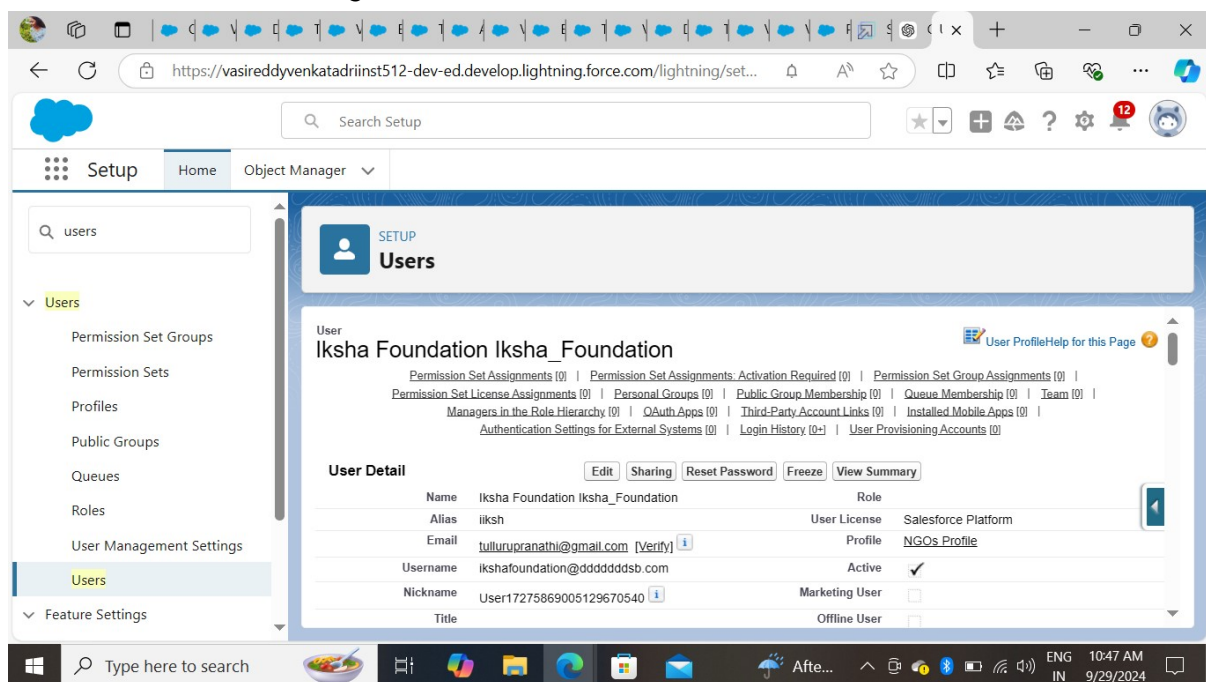
- Explain what execution details are and how they relate to tasks.

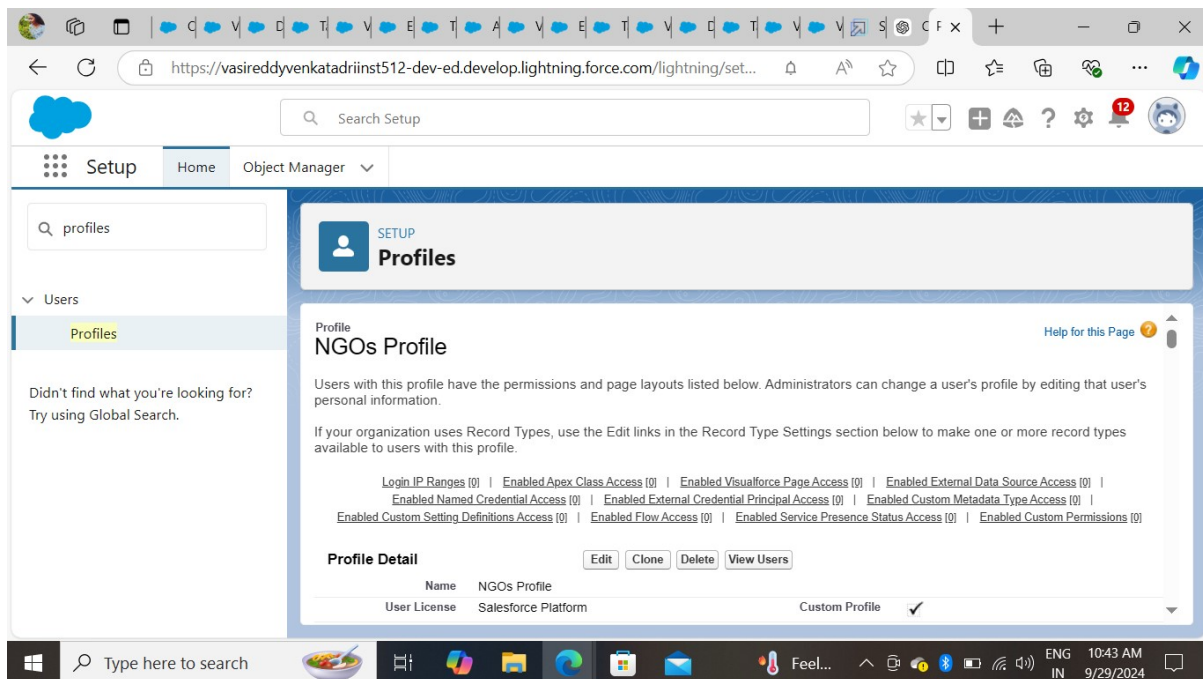


## 7. User Profiles and Roles

Detail the profiles and roles created in Salesforce, including:

- NGOs Profile
- Permissions assigned to different users.

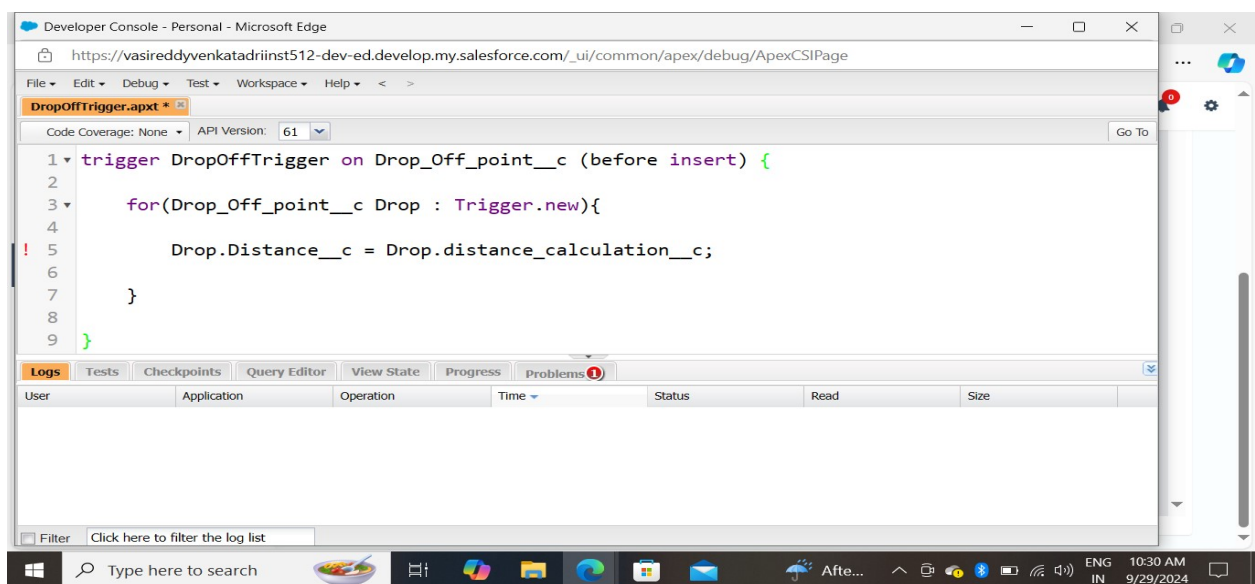


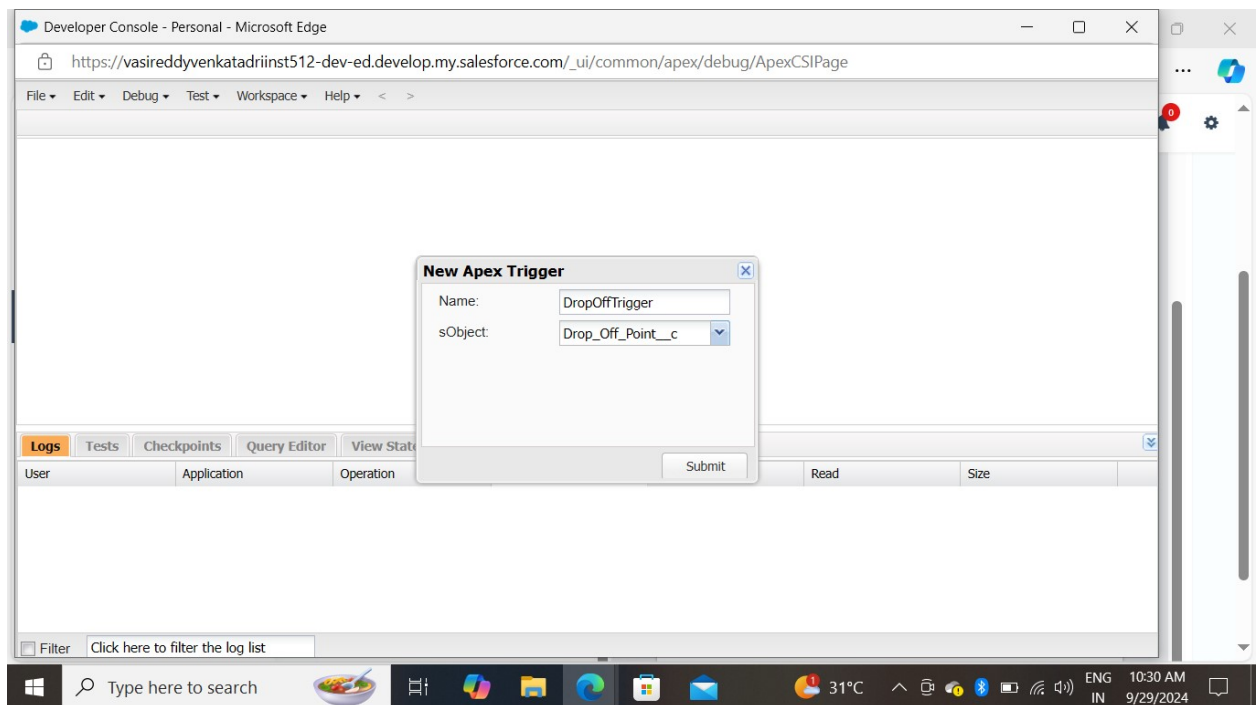


## 8. Workflows and Automation

### 8.1 Triggers

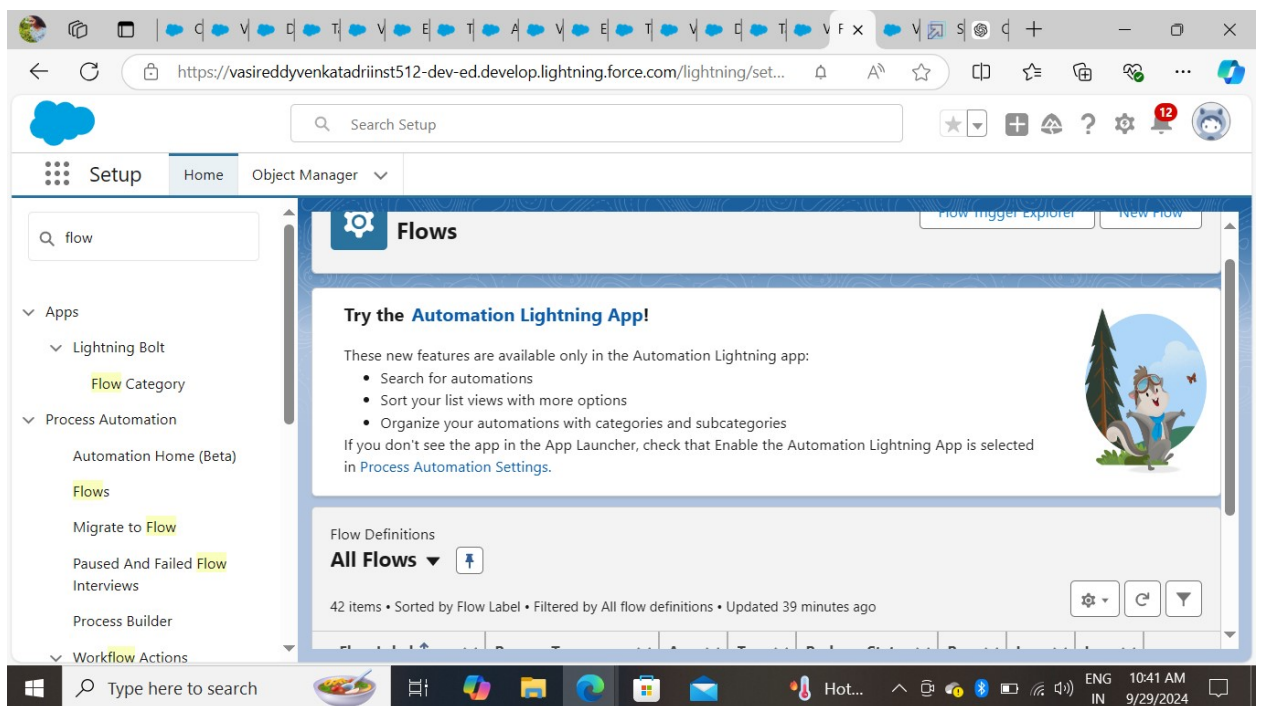
- Explain the triggers implemented (e.g., for calculating distances).





## 8.2 Flow

Describe how the flow is set up to gather venue information.



Flow Builder interface showing a screen flow for creating venue records.

**Screen Flow:**

- Screen Flow Start
- Venue Details Screen
- Create Venue Record (Create Records)
- End

**Create Records Configuration:**

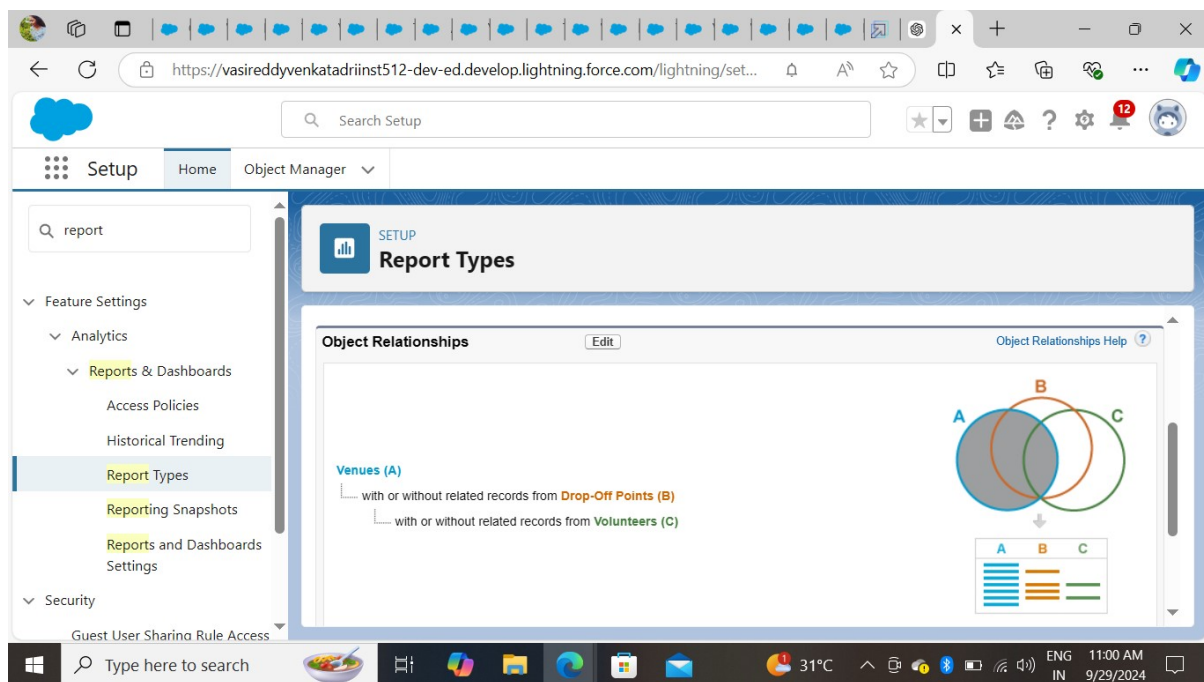
Field	Value
Contact_Email__c	A Contact_Email > Value
Contact_Phone__c	A Contact_Phone > Value
Venue_Location__c	A Venue_Location
Location_Latitude__s	# Latitude
Location_Longitude__s	# Longitude

Buttons: Select Elements, Auto-Layout, Run, Debug, Activate, Save As, Save.

## 9. Reports and Dashboards

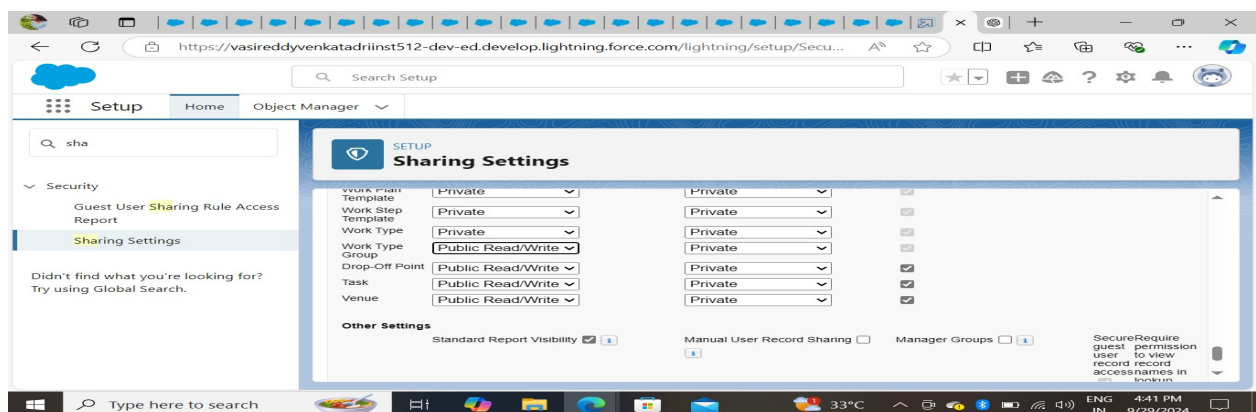
Discuss the reports and dashboards created to monitor key metrics, such as:

- Volunteer engagement.
- Food donations and distributions



## 10. Sharing Settings and Security

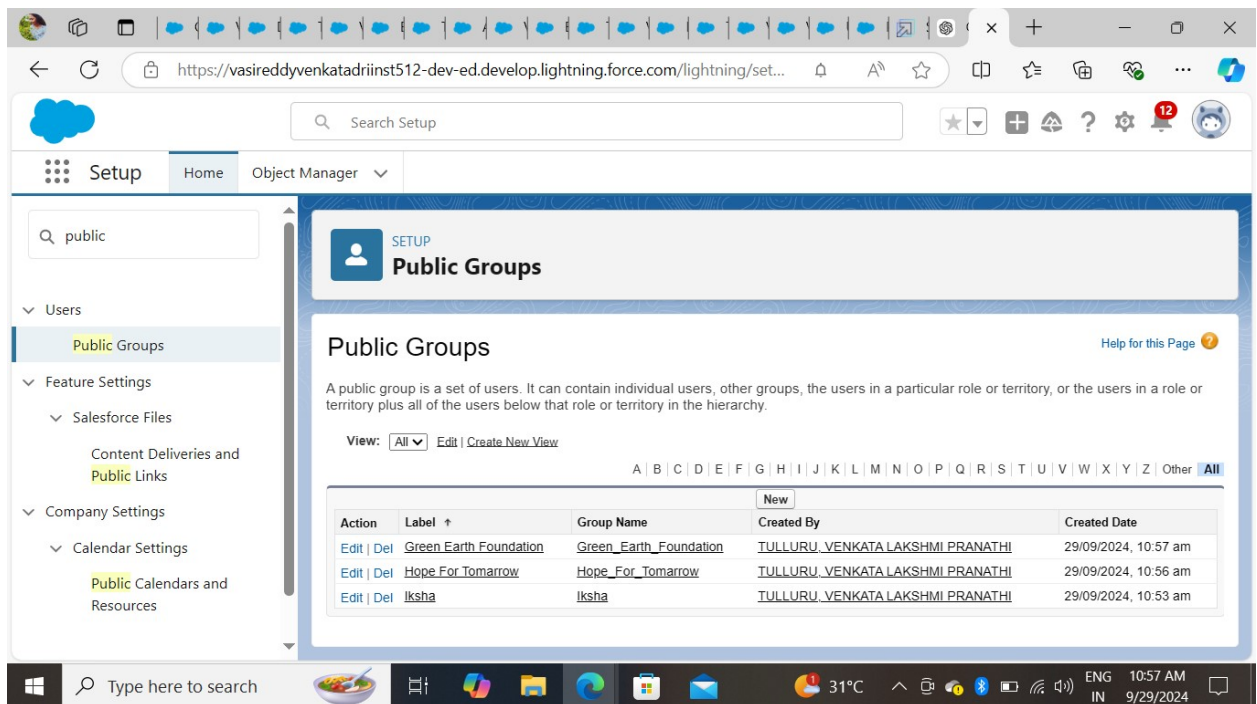
Explain the sharing rules set up to ensure data security and proper access control.



## 11. Implementation Steps

Detail the steps taken to implement the project, including:

- Setting up objects and fields.
- Creating workflows and automations.
- Testing the setup.



The screenshot shows the Salesforce Setup interface. The left sidebar contains a search bar with 'public' and a navigation menu with categories like Users, Feature Settings, and Company Settings. The 'Public Groups' link under Users is highlighted. The main content area is titled 'Public Groups' and includes a description: 'A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.' Below this is a table listing three public groups: 'Green Earth Foundation', 'Hope For Tomorrow', and 'Iksha'. Each row shows the group name, a link to edit or delete, the creator (TULLURU VENKATA LAKSHMI PRANATHI), and the creation date (29/09/2024).

Action	Label	Group Name	Created By	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Green Earth Foundation</a>	<a href="#">Green_Earth_Foundation</a>	<a href="#">TULLURU VENKATA LAKSHMI PRANATHI</a>	29/09/2024, 10:57 am
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Hope For Tomorrow</a>	<a href="#">Hope_For_Tomorrow</a>	<a href="#">TULLURU VENKATA LAKSHMI PRANATHI</a>	29/09/2024, 10:56 am
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Iksha</a>	<a href="#">Iksha</a>	<a href="#">TULLURU VENKATA LAKSHMI PRANATHI</a>	29/09/2024, 10:53 am

## 12. Testing and Validation

Discuss the testing strategies used to validate functionality and data integrity.

## 13. Challenges and Solutions

Outline any challenges encountered during the project and the solutions



implemented.

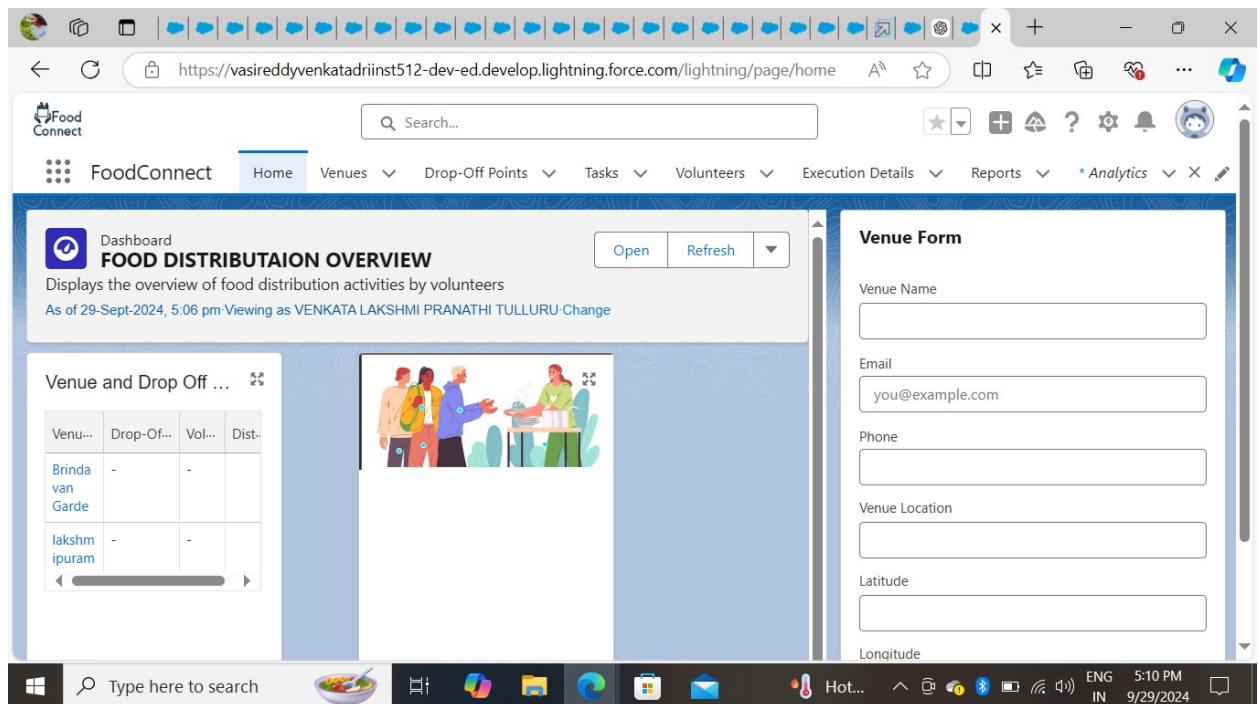
## 14. Future Enhancements

Suggest potential future improvements, such as:

- Integrating with third-party applications.
- Enhancing user interface for volunteers.

## 15. Conclusion

Summarize the project's accomplishments and its potential impact on the community.



THANK YOU