To Supply Leftover Food to Poor

1. Project Overview :

This project centers on creating "Leftover Link ," a platform dedicated to addressing food waste and hunger. The initiative aims to establish an efficient connection between food donors, recipients, and volunteers using innovative technology. By integrating advanced tools such as real-time tracking, geo-location services, and data analytics, Leftover Link streamlines food donation logistics and enhances distribution efficiency. The platform fosters community engagement, supports sustainable food practices, and ensures that surplus food is redirected to those in need. Through collaboration and technology, this project strives to make food redistribution seamless, impactful, and environmentally responsible.

2. Objectives:

1.Business Goals:

The project aims to reduce food waste by connecting surplus food sources with underserved communities, addressing hunger through consistent access to nutritious meals. It seeks to enhance community engagement by encouraging participation from individuals and businesses while leveraging technology to streamline and optimize food donation and distribution processes.

2. Specific Outcomes:

The project will reduce food waste by efficiently redistributing surplus food to underserved communities, ensuring better access to nutritious meals. It will enhance community engagement and promote sustainable practices. Technology-driven insights will optimize operations and measure the initiative's impact.

3. Salesforce Key Features and Concepts Utilized:

- **Case Management**: Track and resolve issues related to food donations efficiently.

- **Custom Objects**: Tailored objects for managing donations, donors, recipients, and logistics.
- **Process Builder**: Automate workflows like sending thank-you notes or pick-up alerts.
- **Chatter**: Internal communication tool for team coordination and updates.
- **Salesforce Mobile App**: Mobile access for donors, recipients, and volunteers.
- **Campaign Management**: Manage community engagement campaigns for food donations.
- **Reports and Dashboards**: Visualize data on donations, impact, and operational performance.
- **Email Integration**: Automate communication with donors, recipients, and volunteers.

4. Detailed Steps to Solution Design:

- **Requirements Gathering**:
  Conduct surveys and interviews with users to identify needs and define features such as donation tracking and real-time alerts.
- **Wireframing and Prototyping**:
  Create wireframes and prototypes for mobile and web interfaces, testing usability and gathering feedback for improvements.
- **System Architecture**:
  Design the backend system, define data models, and plan API integrations with services like GPS and notifications, ensuring security and scalability.
- **Integration Plan**:
  Plan the integration of third-party services for tracking, notifications, and payments to ensure smooth data flow and synchronization.
- **User Testing**:
  Conduct pilot testing with real users to refine features and improve usability based on feedback.
- **Finalizing the Solution Design**:
  Finalize the design, ensuring scalability, security, and integration, and document the system for development and maintenance.

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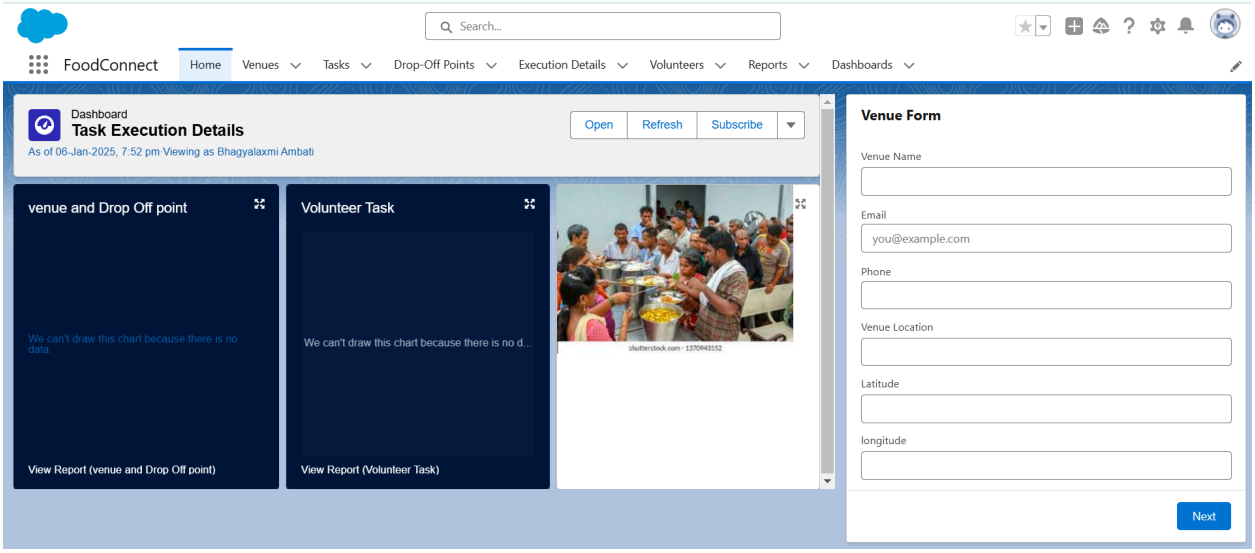

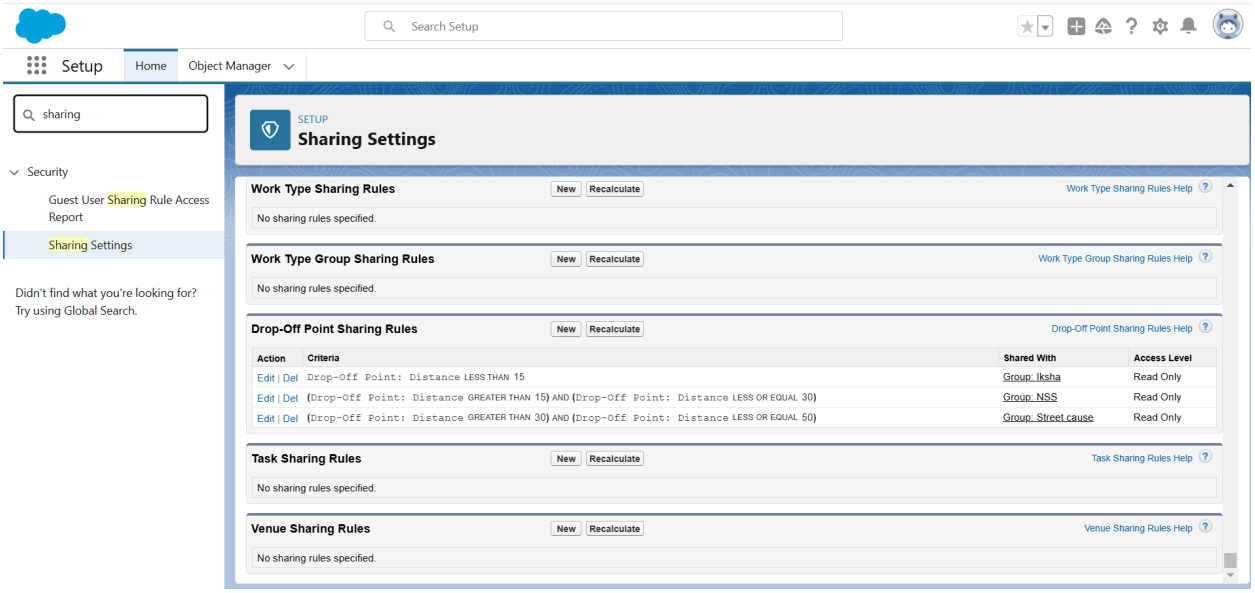

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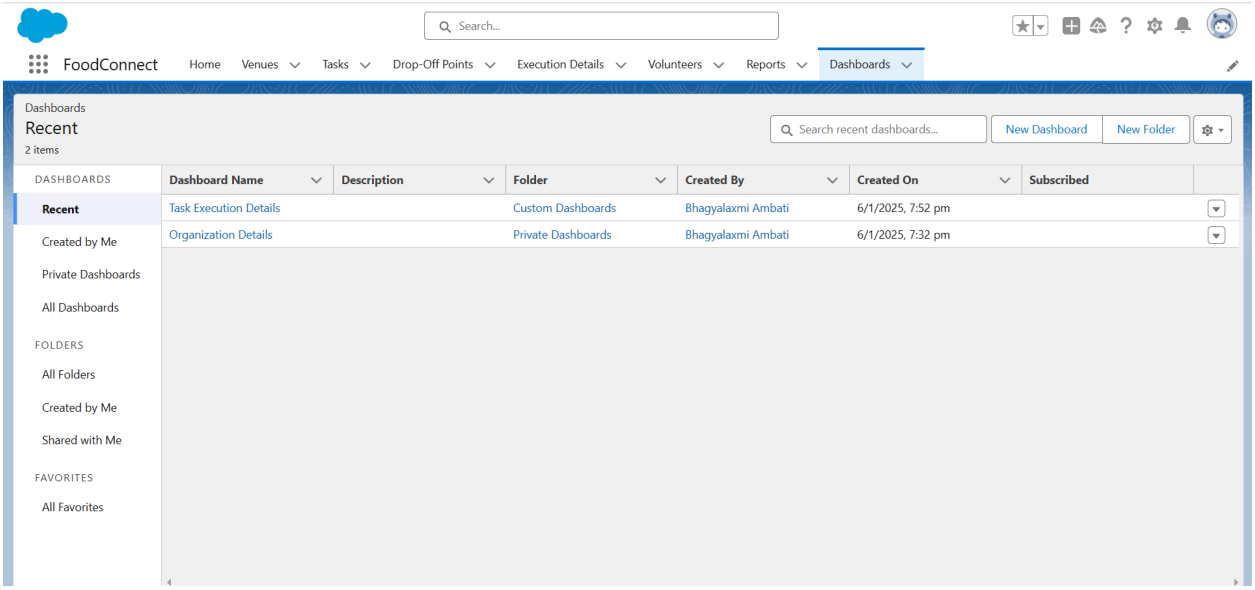

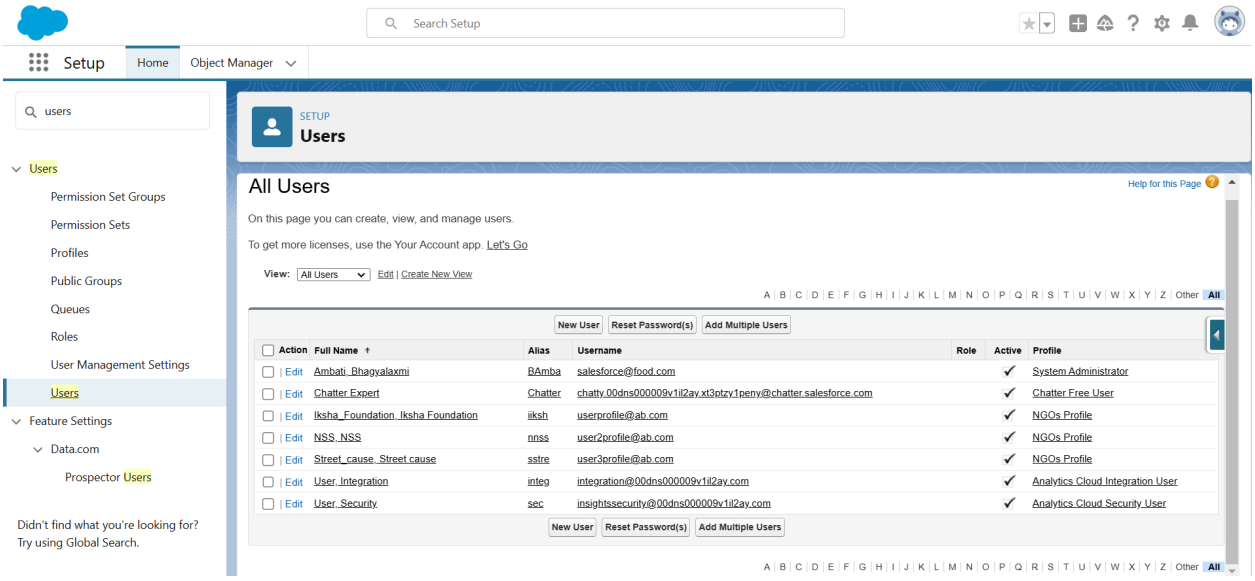

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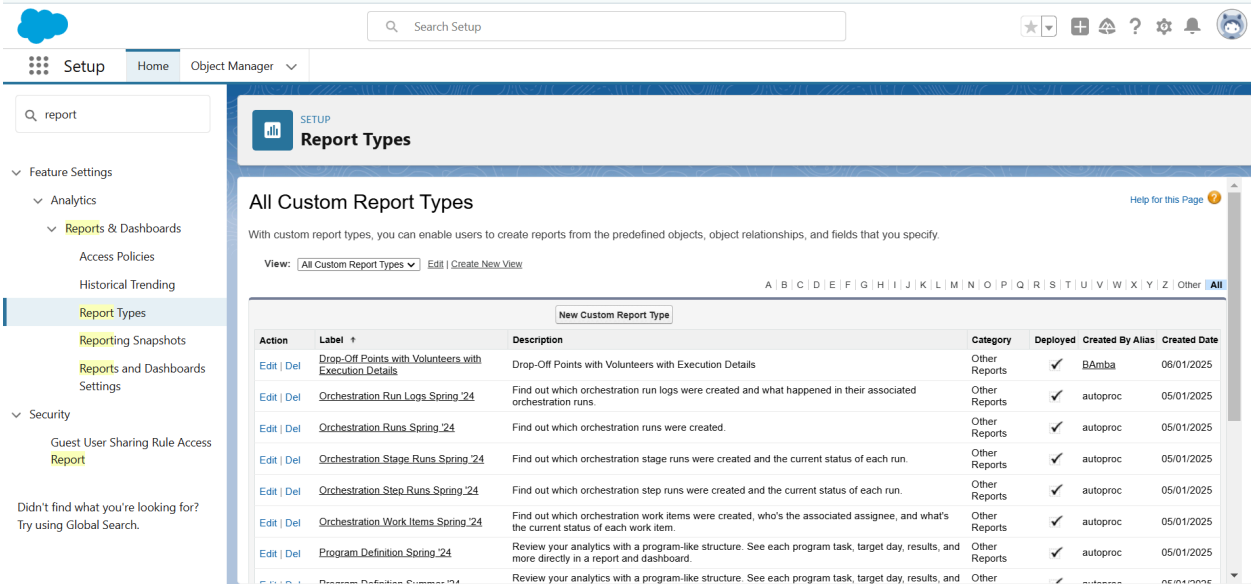

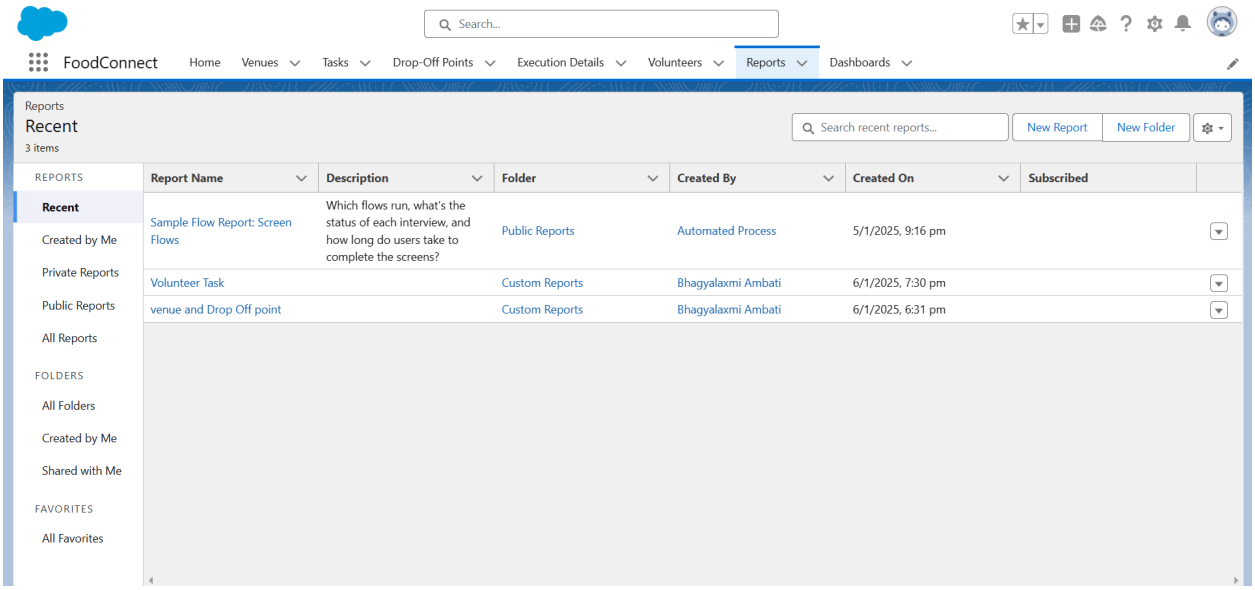

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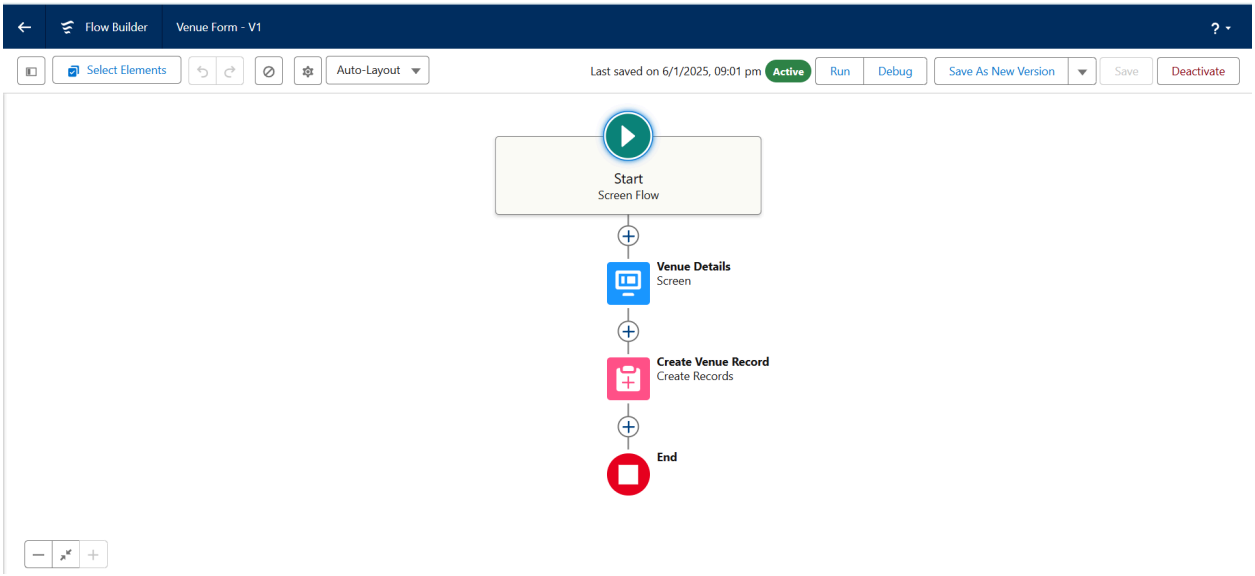
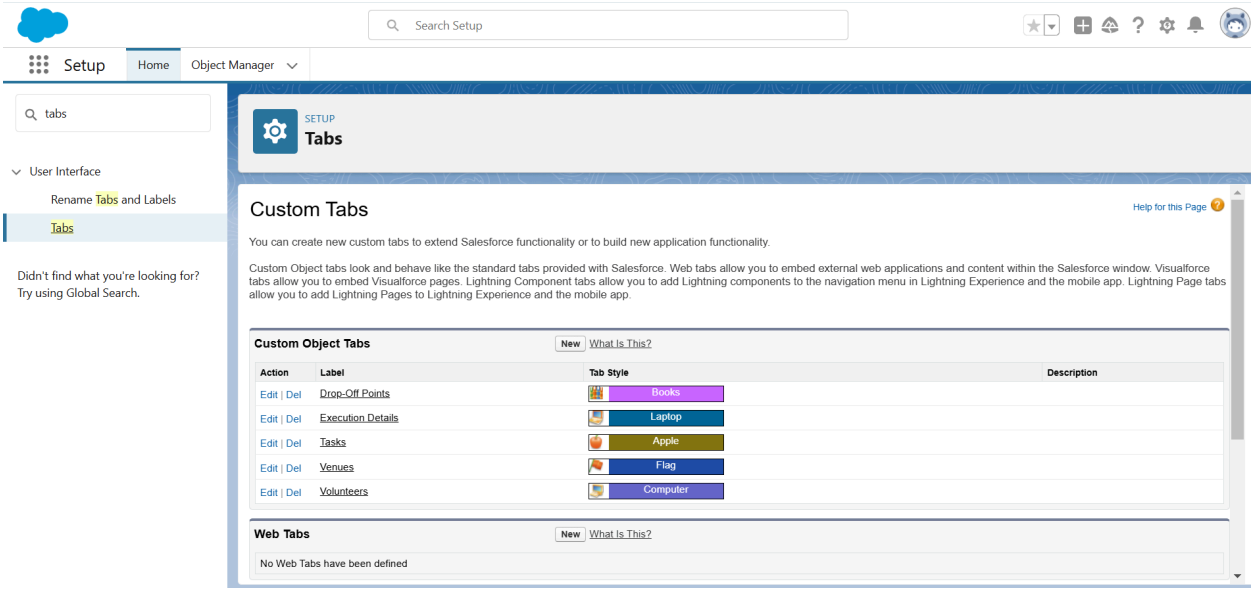




5. Testing and Validation:

the approach to testing:-

Unit Testing (Apex Classes, Triggers):

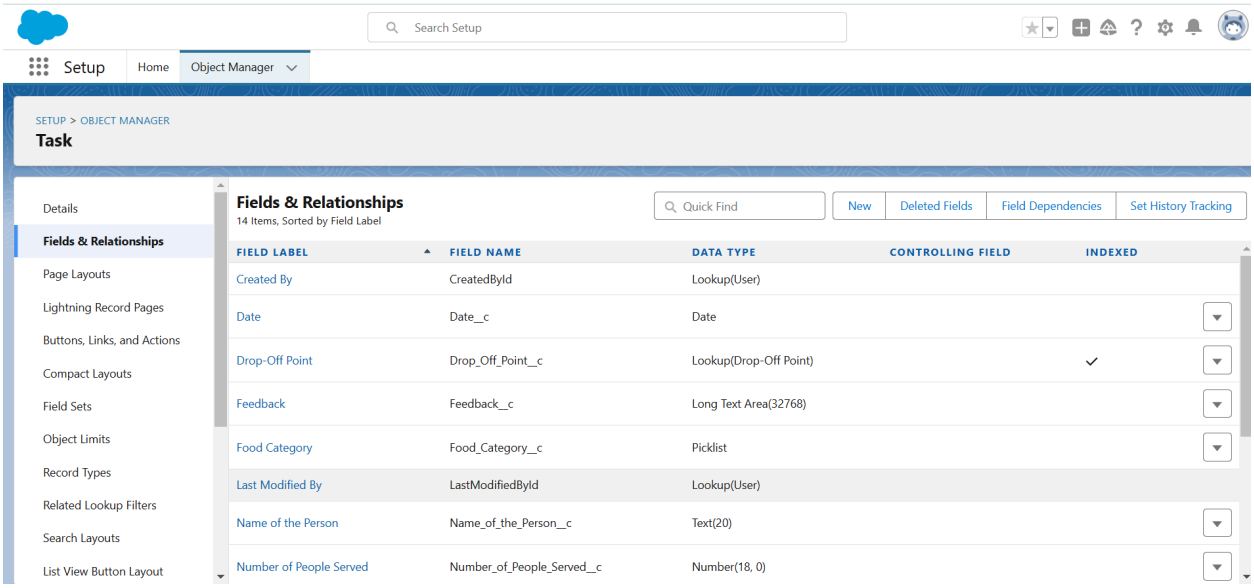
- **Apex Class Testing**:
  Create unit tests to verify business logic in Apex classes, covering various scenarios and edge cases to ensure correct functionality under all conditions.
- **Trigger Testing**:
  Write tests for triggers to ensure they fire correctly on object changes, performing necessary actions like record creation or updates.
- **Code Coverage**:
  Ensure at least 75% code coverage to validate that all functionalities of Apex classes and triggers are properly tested and functioning.

User Interface (UI) Testing:

- **Functional Testing**:
  Verify that web and mobile interfaces work as intended, including food donation posting, user registration, and volunteer sign-ups, ensuring proper data entry and navigation.
- **Cross-Browser and Mobile Testing**:
  Test platform compatibility across browsers and devices, ensuring responsive design and consistent layout across different screen sizes.
- **Usability Testing**:
  Conduct real-user testing to identify and resolve UI issues, focusing on ease of navigation and overall user experience.
- **Accessibility Testing**:
  Ensure the platform meets web accessibility standards (WCAG), allowing access for users with disabilities.

6. Key Scenarios Addressed by Salesforce in the Implementation Project:

Salesforce facilitates tracking and managing food donations, including details like quantity and expiration dates. It matches donors with recipient organizations based on location and needs.Role-based access ensures secure data management for all users. Real-time notifications keep users informed about donations, pick-ups, and urgent needs. The platform also streamlines logistics and provides reports and analytics for better operational insights.



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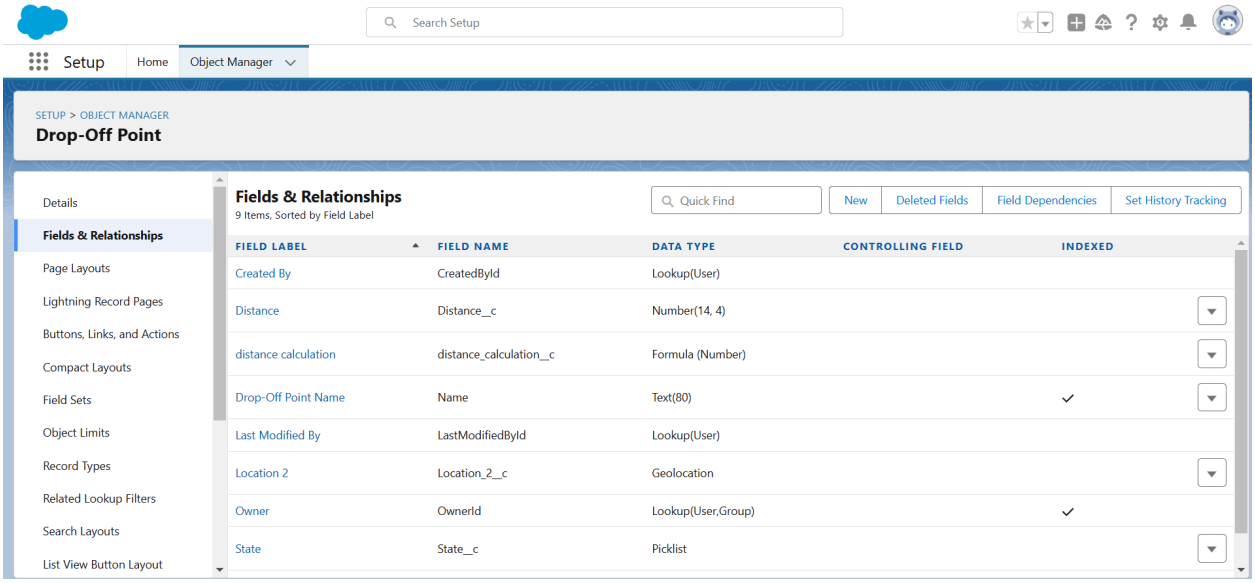

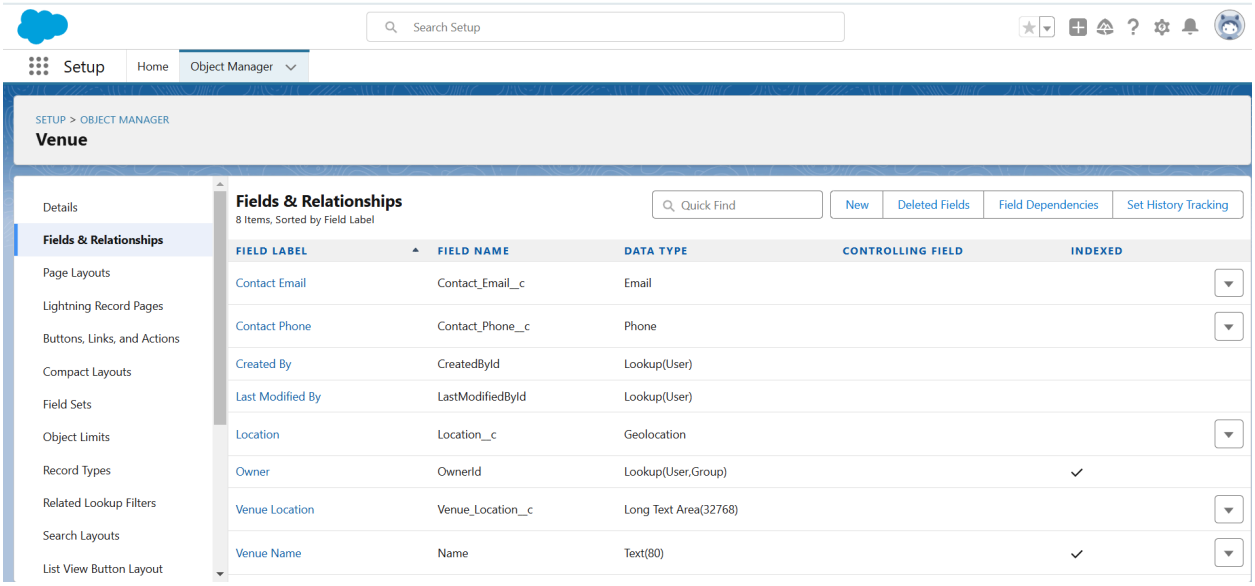

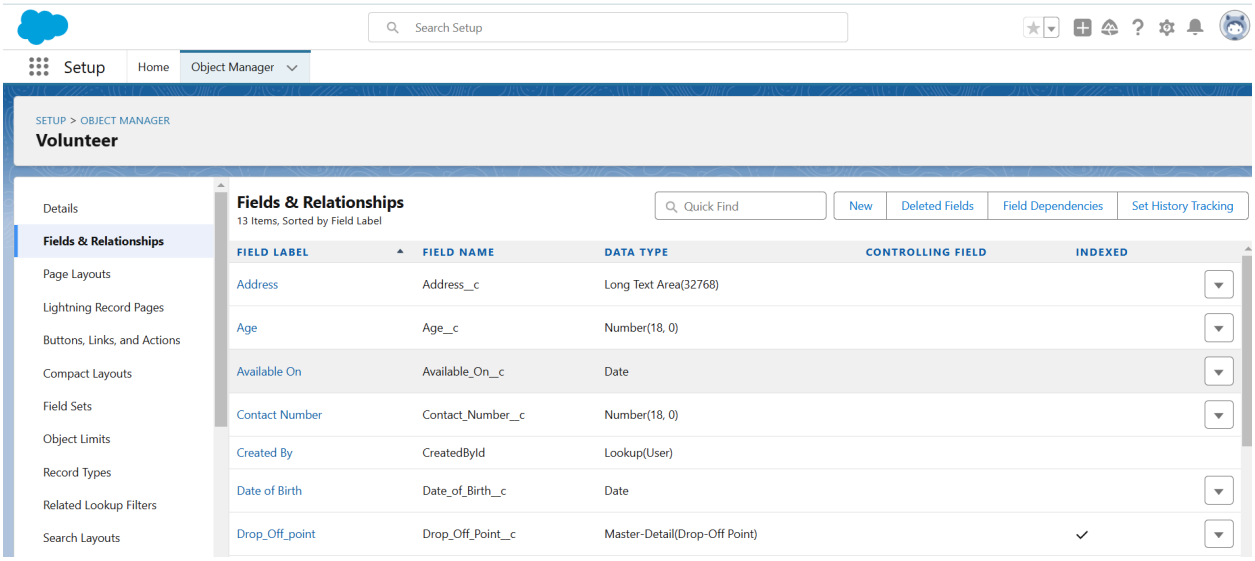

7. Conclusion:

Summary of Achievements:
The project successfully developed a platform that streamlines food donation management, optimizing the process of matching donors with recipients. Key features such as real-time notifications, logistics coordination, and role-based access were effectively implemented. The platform has improved operational efficiency and enhanced community engagement. Overall, it has made significant progress in addressing food waste and hunger issues.