Project Title Project to Supply Leftover Food to the Poor Using Salesforce

Submitted by

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1. Project Overview

This project addresses the challenge of food waste and hunger by leveraging Salesforce technology to facilitate the distribution of surplus food to those in need. Through this solution, we aim to efficiently connect donors, such as restaurants and grocery stores, with organizations that assist the needy. Utilizing Salesforce CRM as the core platform, the project enables real-time tracking of donations, manages logistics, and ensures timely delivery. This initiative promotes transparency, accountability, and improved resource allocation within the network of food donors and recipients.

1. **Objectives**

    a. **Business Goals**: Reduce food waste and combat hunger by connecting food suppliers with non-profits and shelters.

    b. **Specific Outcomes**:

- Establish a reliable network of food donors and recipients.
- Automate the matching process of food donations based on location, food type, and urgency.
    - Enable field agents to track deliveries and update statuses in real-time.

1. **Salesforce Key Features and Concepts Utilized**

    a. **Objects**: Custom objects created for Drop-Off Points, Tasks, Execution Details, Volunteers, and Venues to manage data specific to the project.

    b. **Tabs**: Custom tabs for key objects like Venues, Execution Details, and Volunteers, improving data organization and accessibility.

    c. **Lightning App**: Built for a smooth and user-friendly interface.

    d. **Fields**: Custom fields for storing detailed information about tasks, volunteer details, and drop-off points.

    a. **Flows**: Automated workflows for creating records and notifying users.

    b. **Triggers**: Apex triggers to enforce business logic and ensure data consistency.

    c. **Profiles and Users**: Defined specific roles and access levels to secure and organize data handling.

    d. **Public Groups**: Grouped users for simpler sharing and permissions management.

    e. **Report Types**: Created to facilitate custom reporting and track metrics like volunteer efficiency and food distribution effectiveness.

    f. **Dashboards**: Visual representation of key metrics, enabling better decision-making and operational insights.

    g. **Sharing Rules**: Used to extend access to records for users in public groups, ensuring secure and organized data sharing across the system.

2. **Detailed Steps to Solution Design**

The solution design involved creating custom objects, fields, tabs, and lightning applications to

build a user-friendly interface. Each object was carefully tailored to meet the unique data requirements for the project:

1. **Data Model**: Custom objects (Drop-Off Points, Volunteers, etc.) organized data effectively, while relationships between objects streamlined the distribution workflow.

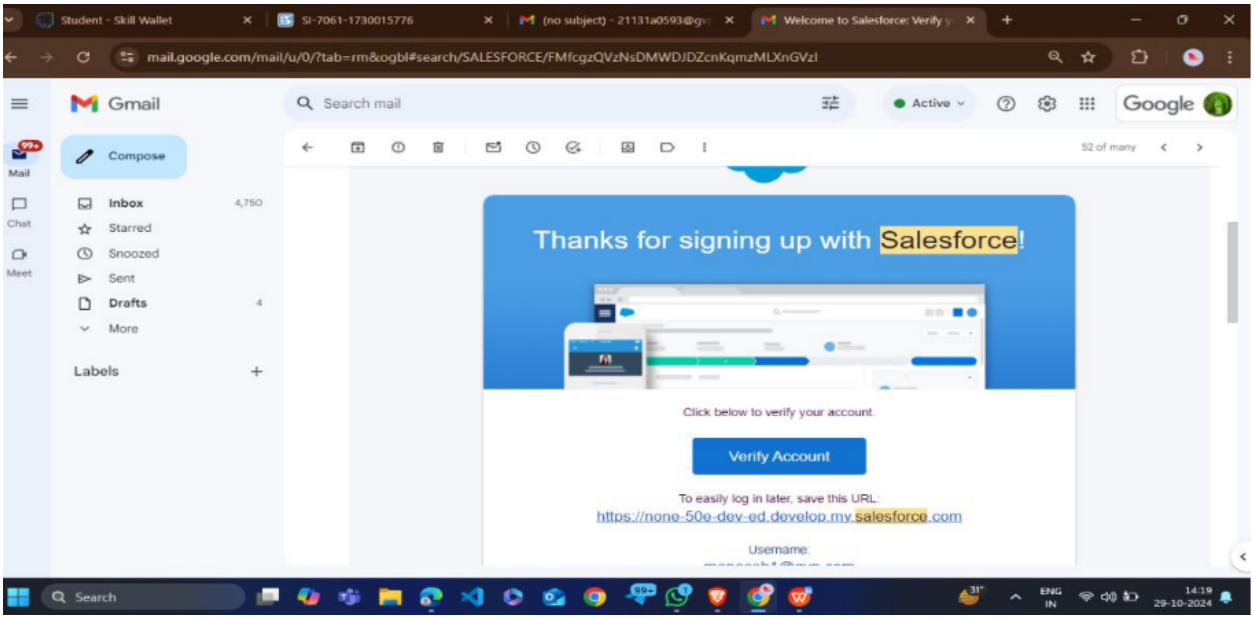
2. **User Interface**: Custom tabs and Lightning components facilitated easy access to information, optimized for mobile use.

3. **Business Logic**: Flows and triggers automated donation alerts, assignment of volunteers, and tracking of delivery updates to ensure a smooth process.

salesforce developer account creation

1. Creating a developer org in salesforce

2. Account Activation



Object

In Salesforce, an object is a database table that stores data related to a specific entity, such as customers, products, or sales transactions. Objects are the building blocks of Salesforce data models.

There are two types of objects in Salesforce:

1. **Standard Objects:** These are pre-built objects provided by Salesforce, such as Accounts, Contacts, Leads, and Opportunities, which cover common business processes.

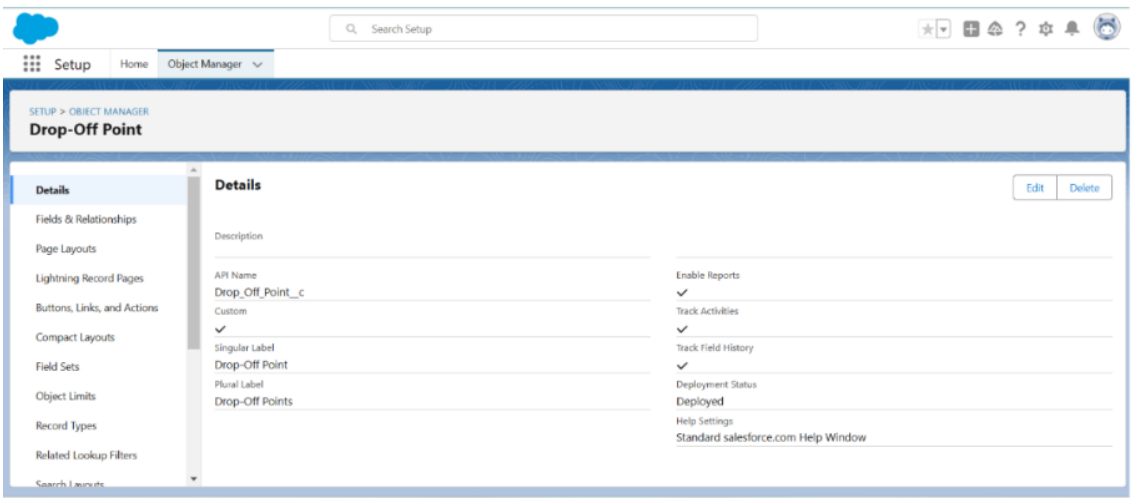
2. **Custom Objects:** These are user-defined objects created to store data unique to a particular business or application. Custom objects can have custom fields, relationships, and custom logic through workflows and triggers.

Objects are essential for organizing and managing data within the Salesforce platform.

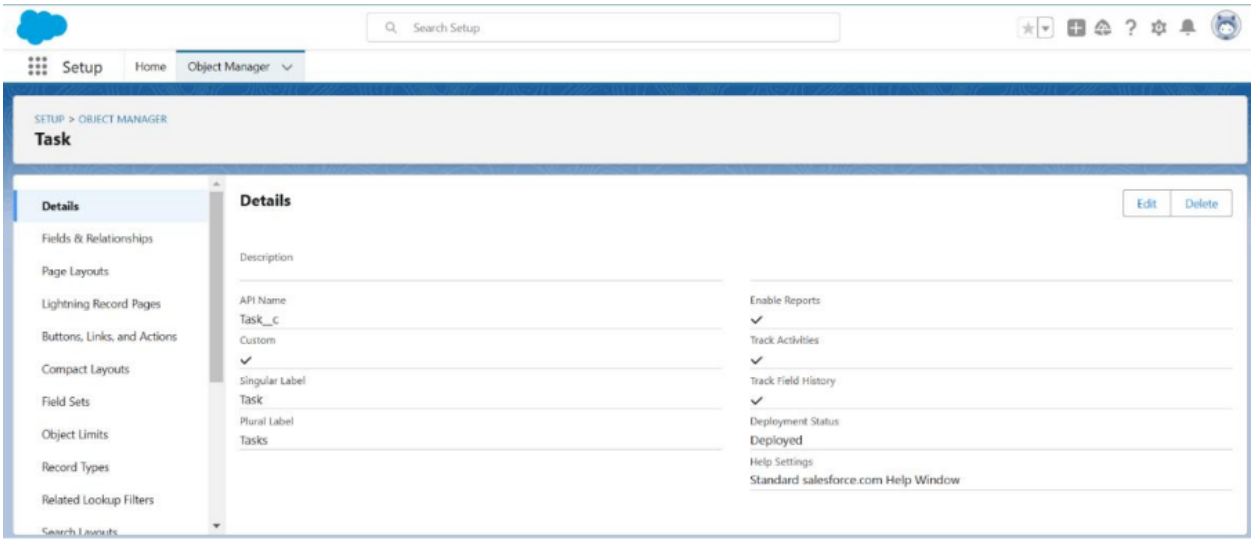
To create an object:

Here, We have Created All the objects which where asked.

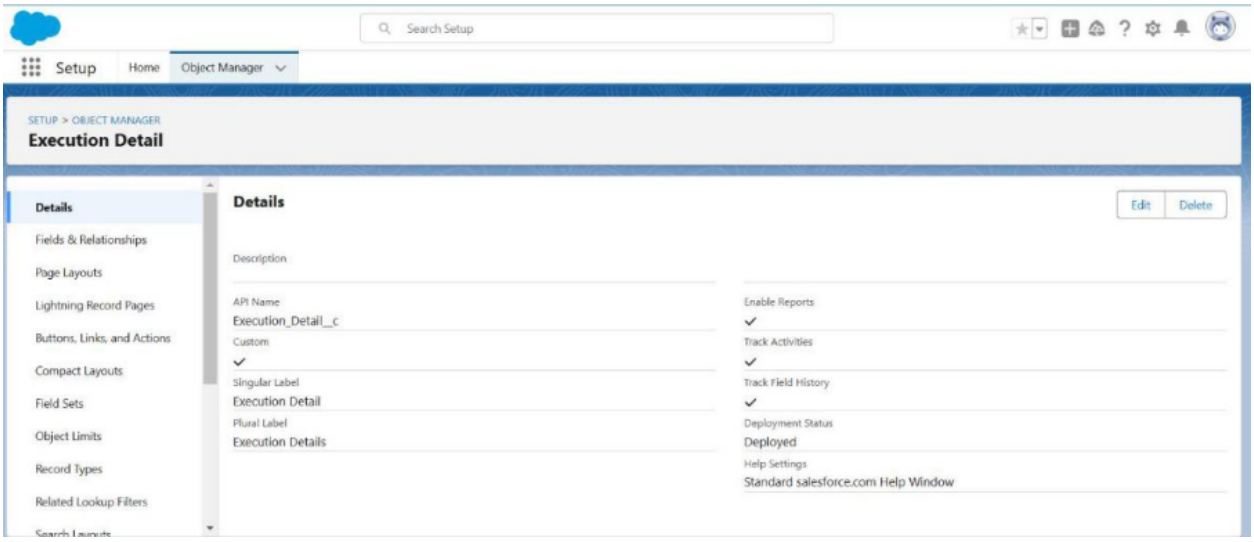
a. Drop-Off Point



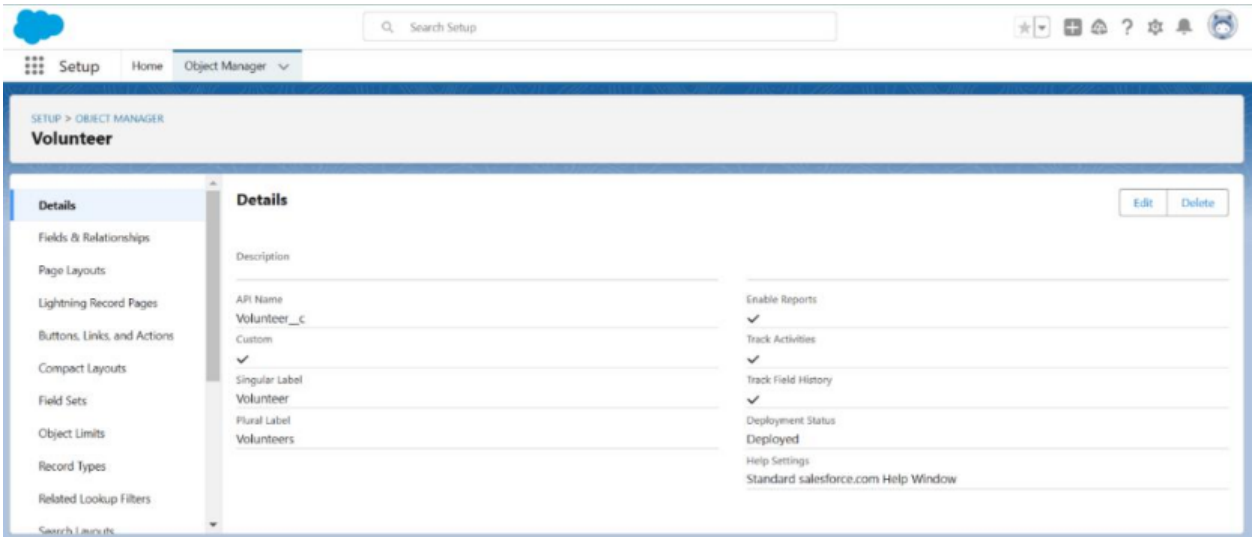
b. Task



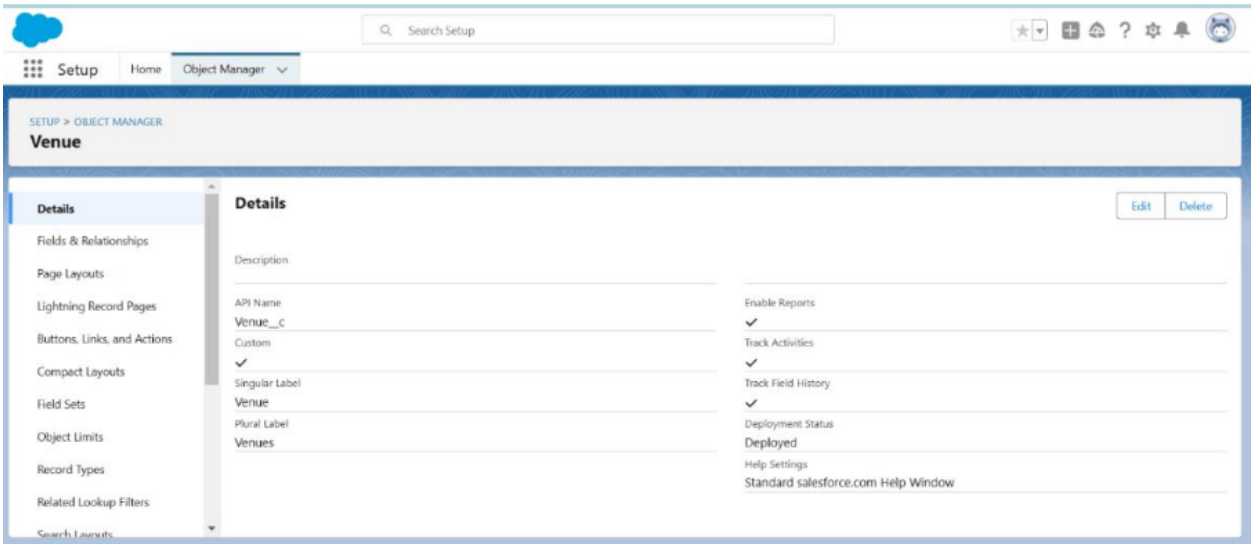
c. Execution Detail



d. Volunteer



e. Venue



Tab:

What is Tab ?

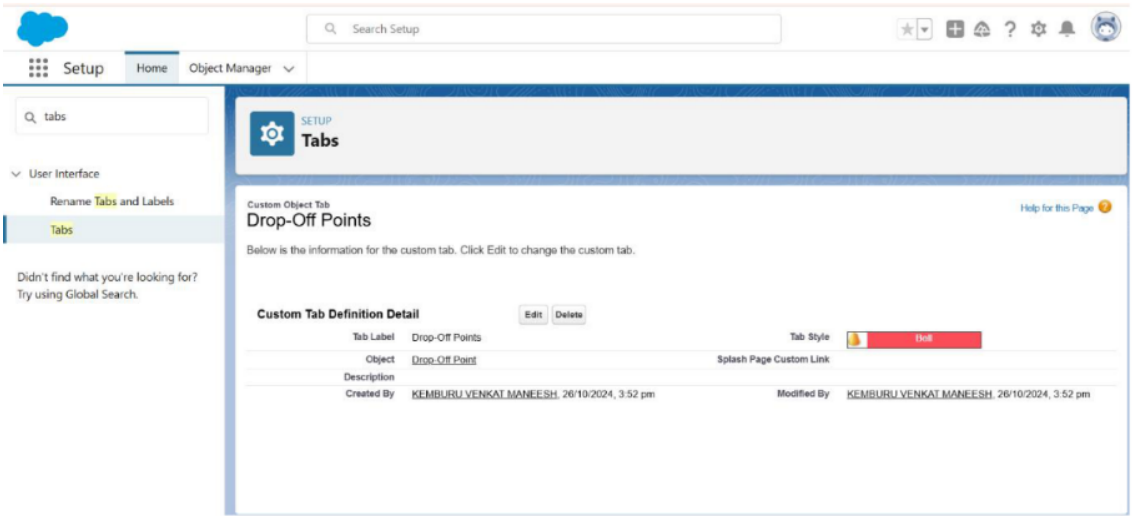
A tab is like a user interface that is used to build records for objects and to view the records in the objects.

a. **Creating a Custom**

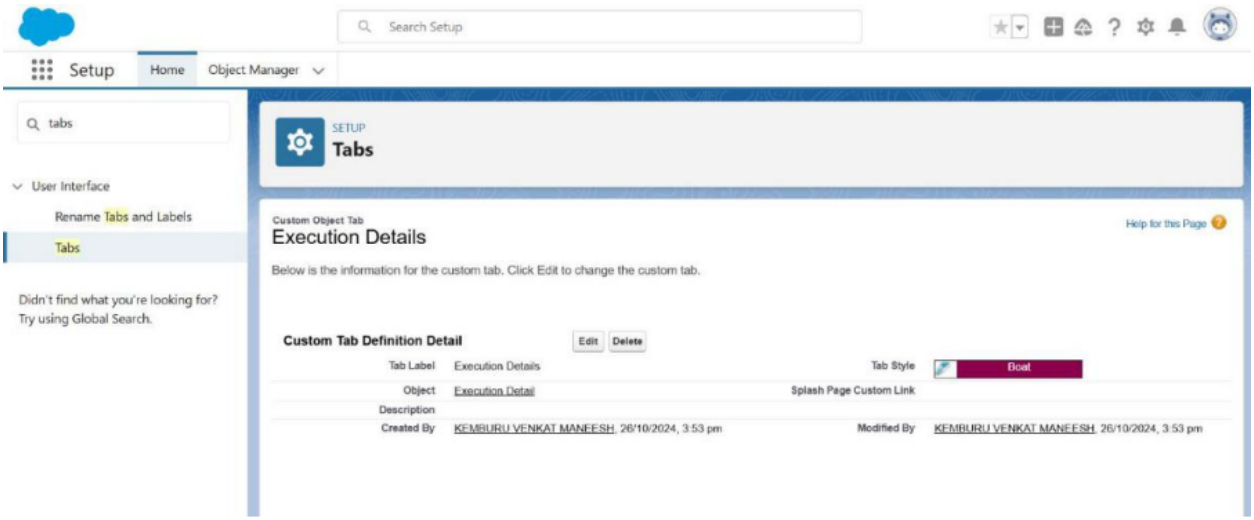
Tab Create Venues

Tab

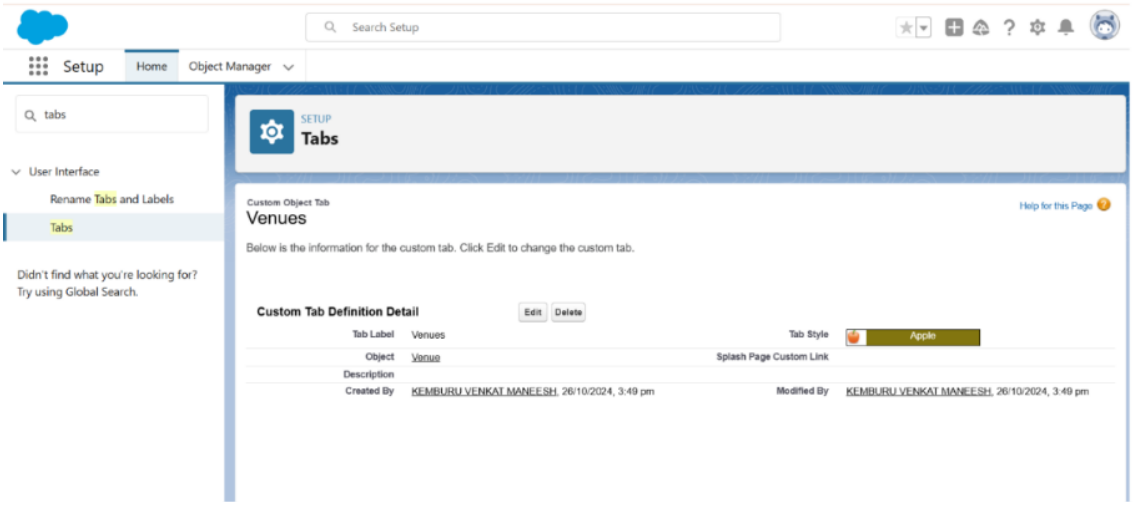
2. **Drop-Off Point Tab**



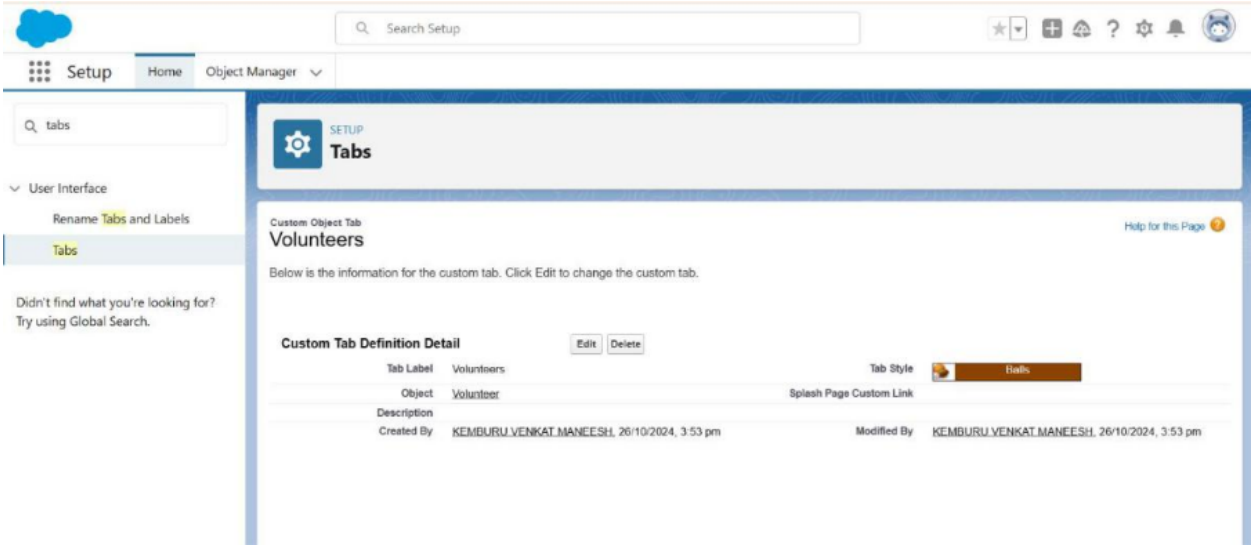
II) Execution Details Tab



III) Venues Tab



IV) Volunteers Tab



4. Create a Lightning App

Will create a lightning app page-

5)Fields

What is a Field?

Fields are specific data points within an object where individual pieces of information are stored. They are akin to columns in a database table and can hold various types of data, such as text, numbers, or dates.

Creation of Fields for the Volunteer Object - Gen

Execution ID

Date of birth

Addresss

Age

Avaialble On

Drop_off_point

Volunteer ID

Creation of Fields for the Venue Object

Contact Email

Contact Phone

Location

Venue Location

Creation of Fields for the Drop-Off Point Object

Location **2**

distance Calculation

Creation of Fields for the Task Object

Venue_c

Feedback

Rating

Sponsored By

Task Name

Task ID

Phone

Number of People Served

Food Category

Date

Creation of Fields for the Execution Details Object

Volunteer

Task

6) Flows

What is a Flow?

Flows are automation tools that allow users to create complex business processes and workflows using a visual interface. They can automate tasks, guide users through steps, and integrate with other systems.

Flow to Create a Record in Venue Object