Documentation: Food Connect App

Objective: To provide detailed steps and documentation for creating a "Food Connect App" on the Salesforce platform. The app connects food donors with volunteers to distribute leftover food to the needy.

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1. Salesforce Developer Account Creation

Creating Developer Account

- Navigate to Salesforce Developer(https://developer.salesforce.com/).
- Click on ““Sign Up”“ and fill out the required details (name, email, etc.).
- Choose a username and password, and click “Submit”.

Account Activation

- You will receive an activation email from Salesforce.
- Click on the “activation link” in the email and log in to Salesforce using your credentials.

2. Objects Creation

Create Venue Object

- Navigate to “Setup“ → “Object Manager“ → “Create New Object“.
- Enter “Label”: Venue, “Plural Label“: Venues.
- Create the necessary fields (like Name, Address, etc.) and save the object.

Create Drop-Off Point Object

- Follow the same steps as the Venue object.
- Create fields for drop-off points, such as location, operating hours, and contact details.

Create Task Object

- Create a new custom object for “Tasks“ that volunteers need to complete.

- Include fields like task description, deadline, and assigned volunteer.

Create Volunteer Object

- Create a “Volunteer“ custom object to track the details of people who will pick up and deliver food.

- Include fields like name, contact information, and availability.

Create Execution Details Object

- This object will track the actual delivery details of food, including time of delivery, the quantity of food, and the recipient.

- Create custom fields accordingly.

3. Tabs

Creating a Custom Tab

- Navigate to “Setup“ → “Tabs“.

- Create a new custom tab for “Venue“.

- Repeat this process for “Drop-Off Point“, “Task“, “Volunteer“, and “Execution Details“.

Creating Remaining Tabs

- Ensure tabs for all objects are created and visible for easy navigation in the app.

4. The Lightning App

- Navigate to “Setup“ → “App Manager“.

- Click “New Lightning App”.

- Name the app “Food Connect“.

- Choose an icon, assign tabs (Venue, Drop-Off Point, Task, Volunteer, Execution Details), and set user permissions.

5. Fields Creation

Creation of Relationship Fields in Objects

- Create lookup or master-detail fields to establish relationships between objects, e.g., between “Venue“ and “Task“, or “Volunteer” and “Execution Details“.

Creation of Fields for Venue Object

- “Fields“: Name, Address, Contact Information, Capacity, Food Types Accepted.

Creation of Fields for Drop-Off Point Object

- “Fields”: Name, Location, Hours of Operation, Contact Information.

Creation of Fields for Task Object

- “Fields“: Task Description, Assigned Volunteer, Due Date, Priority.

Creation of Fields for Volunteer Object

- “Fields”: Name, Contact Info, Availability, Vehicle Type, Preferred Areas.

Creation of Fields for Execution Details Object

- “Fields”: Date of Execution, Food Quantity, Recipient Details, Volunteer Assigned.

6. Flows

Create Flow to Create a Record in Venue Object

- Navigate to “Setup” → “Flows”.

- Create a new “Flow” to automatically create a Venue record when a donor submits a form.

- Define flow logic, add necessary variables, and test for accuracy.

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7. Triggers

Create a Trigger

- Navigate to “Setup“ → “Apex Triggers“.

- Create a new trigger for tasks or venue updates.

Trigger Code

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {
    for(Drop_Off_point__c Drop : Trigger.new){
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}
```

8. Profiles

- Create profiles for “Donors”, “Volunteers“, and “Admins“.

- Assign permissions based on roles and access levels.

9. User Creation

Creation of User1

- Navigate to “Setup“ → “Users” → “New User”.

- Create User1 with Volunteer profile.

Creation of User2, User3

- Follow the same process to create User2 and User3 with different profiles.

10. Public Groups

Creation of Public Group 1

- Navigate to “Setup” → “Public Groups“.

- Create Public Group 1 for Volunteers.

Creation of Public Group 2

- Create Public Group 2 for Donors.

11. Report Types

Creation of Report Types

- Navigate to “Setup“ → “Report Types”.

- Create custom report types to connect “Venue“ with “Drop-Off Points”, “Tasks“, and “Volunteers”.

12. Reports

Creation of Report on Venue with Drop-Off and Volunteer

- Create a report that pulls data from Venue, Drop-Off Point, and Volunteer objects to track donation flows.

Creation of Report on Volunteers with Execution Details and Tasks

- Generate a report that shows how many tasks volunteers have completed and details on execution.

13. Dashboards

Adding Venue and Drop-Off Point Report to Dashboard

- Navigate to “Dashboards”.

- Add the “Venue“ and “Drop-Off Point“ reports to the dashboard.

Adding Volunteer Task Report to Dashboard

- Include the volunteer task report for monitoring.

Adding a Picture to the Dashboard (Optional)

- Optionally, add an image (e.g., logo or infographic) to enhance dashboard visuals.

14. Sharing Rules

Creation of Sharing Rules

- Navigate to “Setup“ → “Sharing Settings“.

- Create sharing rules that allow volunteers to view only their assigned tasks and venues.

15. Home Page

Creation of Home Page

- Use the “Lightning App Builder“ to create a customized home page with relevant dashboards, reports, and key metrics.

16. Conclusion

The “Food Connect App“ on the Salesforce platform enables an efficient process of connecting food donors with volunteers for food distribution. With customizable objects, tabs, reports, and automations, this app ensures that leftover food reaches those in need effectively while reducing wastage.