

Project Title

To Supply Leftover Food to the Poor: Food Connect App

1. Project-Overview

This project addresses the challenge of food wastage and hunger by connecting venues with leftover food to designated drop-off points for distribution to the underprivileged. Using the Salesforce platform, the "**Food Connect**" app was developed to streamline the process of collecting, tracking, and delivering food efficiently. This initiative aims to enhance operational efficiency, improve volunteer coordination, and ensure timely food distribution to those in need.

2. Objectives

- Business Goals:
 - Minimize food wastage by redistributing leftover food.
 - Provide timely assistance to the needy by creating a structured workflow.
- Specific Outcomes:
 - A user-friendly interface for venues to register and report leftover food.
 - A dashboard to track tasks, venue-drop-off point connections, and volunteer contributions.
 - Automated task assignments and real-time updates for efficient execution.

3. Salesforce Key Features and Concepts Utilized

- Objects and Relationships: Venue, Drop-Off Points, Volunteers, and Tasks.
- Dashboards: Task Execution Details, Venue-Drop-Off Point Mapping, and Volunteer Performance.
- Forms: Venue registration and input fields for venue name, email, phone, location, longitude, and latitude.

- Reports: Detailed tracking of venue-drop-off point connections and volunteer task statistics.
- Lightning Components: Custom interface design and data visualization.

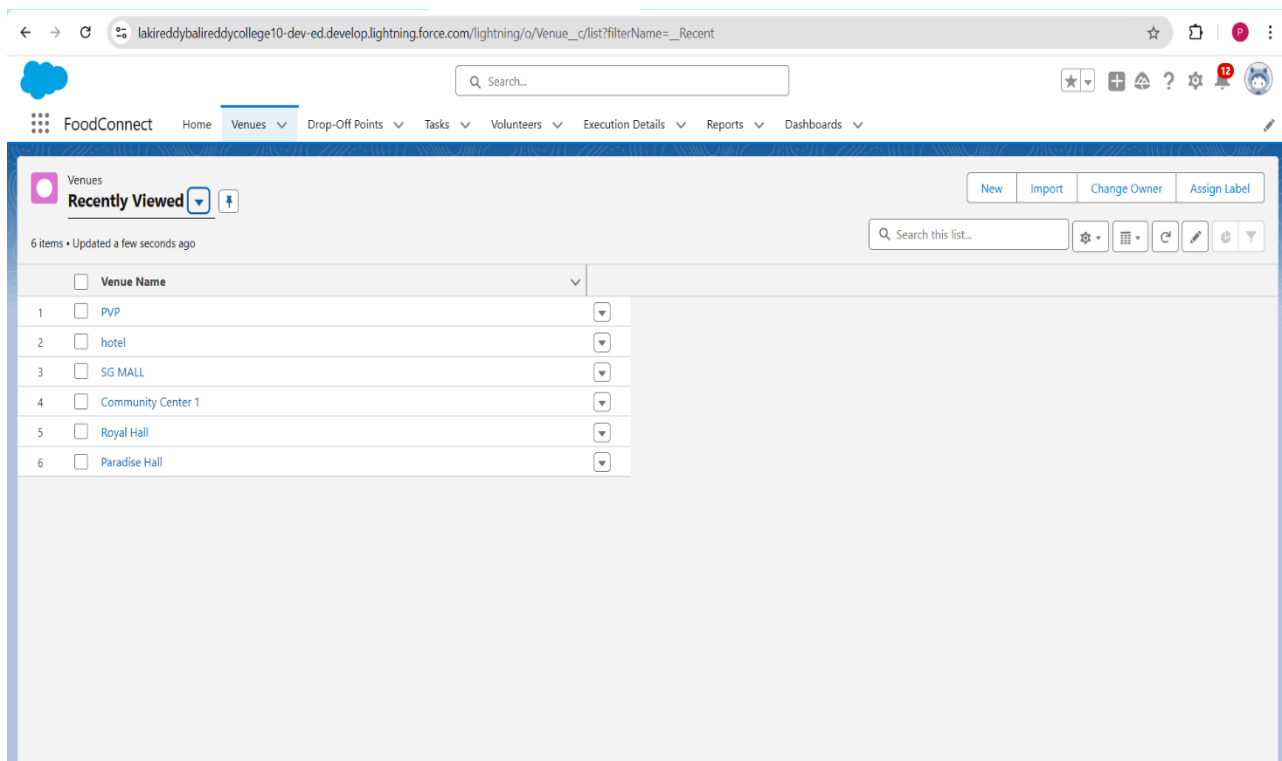
4. Detailed Steps to Solution Design

- Data Model:
 - Designed a schema involving relationships between venues, drop-off points, and tasks.
 - Integrated fields for location coordinates to ensure accurate mapping and logistics.
- User Interface:
 - Developed a Lightning dashboard for intuitive navigation.
 - Created forms for venue data entry, as shown in the screenshot, to collect critical information.
- Business Logic:
 - Automated task creation and assignment based on venue-drop-off point proximity.
 - Implemented real-time tracking of volunteer tasks using Salesforce reports and dashboards.

Output Screenshots

Home Page:

It contains Venue and Drop Off point, Volunteer Task Report Unique and Venue Form



DropOff Points Page:

The screenshot shows the 'Drop-Off Points' page in the FoodConnect application. The browser address bar displays the URL: `lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/o/Drop_Off_Point_c/list?filterName=_Recent`. The application header includes the 'FoodConnect' logo and a navigation menu with items: Home, Venues, Drop-Off Points (selected), Tasks, Volunteers, Execution Details, Reports, and Dashboards. A search bar is located in the top right. The main content area features a 'Drop-Off Points' header with a 'Recently Viewed' filter and a list of 5 items. The list is titled 'Drop-Off Point Name' and contains the following entries:


	Drop-Off Point Name	
1	<input type="checkbox"/> Food Center Drop-Off 1	
2	<input type="checkbox"/> FoodCenter5	
3	<input type="checkbox"/> Food Center Drop-Off 4	
4	<input type="checkbox"/> Food Center Drop-Off 3	
5	<input type="checkbox"/> Food Center Drop-Off 2	

Tasks Page:

The screenshot shows the 'Tasks' page in the FoodConnect application. The browser address bar displays the URL: `lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/o/Tasks_c/list?filterName=_Recent`. The application header includes the 'FoodConnect' logo and a navigation menu with items: Home, Venues, Drop-Off Points, Tasks (selected), Volunteers, Execution Details, Reports, and Dashboards. A search bar is located in the top right. The main content area features a 'Tasks' header with a 'Recently Viewed' filter and a list of 2 items. The list is titled 'Task Name' and contains the following entries:

	Task Name	
1	<input type="checkbox"/> Food Delivery	
2	<input type="checkbox"/> Food Collecting	

Volunteers Page



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FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Volunteers

Recently Viewed

New

Import

Assign Label

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4 items • Updated a few seconds ago

	<input type="checkbox"/> Volunteer Name	
1	<input type="checkbox"/> Keerthika	🔽
2	<input type="checkbox"/> Rose	🔽
3	<input type="checkbox"/> Gorge	🔽
4	<input type="checkbox"/> Henry Doe	🔽

Execution Details Page:



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FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Execution Details

Recently Viewed

New

Import

Assign Label

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3 items • Updated a few seconds ago

	<input type="checkbox"/> Execution Detail Name	
1	<input type="checkbox"/> KK	🔽
2	<input type="checkbox"/> PTR	🔽
3	<input type="checkbox"/> MTM	🔽

Reports Page:

It contains venue and dropoff point and Volunteer Task Report unique

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Q Search...

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12

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Reports

Recent

3 items

Q Search recent reports...

New Report

New Folder

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REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	venue and Drop Off point		Custom Reports	Jajula Pujitha	24/12/2024, 1:37 pm	📄
Created by Me	Volunteer Task Report Unique		Custom Reports	Jajula Pujitha	24/12/2024, 2:42 pm	📄
Private Reports	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	20/12/2024, 8:12 am	📄
Public Reports						
All Reports						

FOLDERS

All Folders

Created by Me

Shared with Me

FAVORITES

All Favorites

Venue and Dropoff Point Report:

lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/r/Report/00OdM0000097KpdUAE/view?queryScope=userFolders

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FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Q Search...

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Report: Venue with DropOff with Volunteer

venue and Drop Off point

Enable Field Editing

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Add Chart

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Edit

Total Records

Total Distance

3

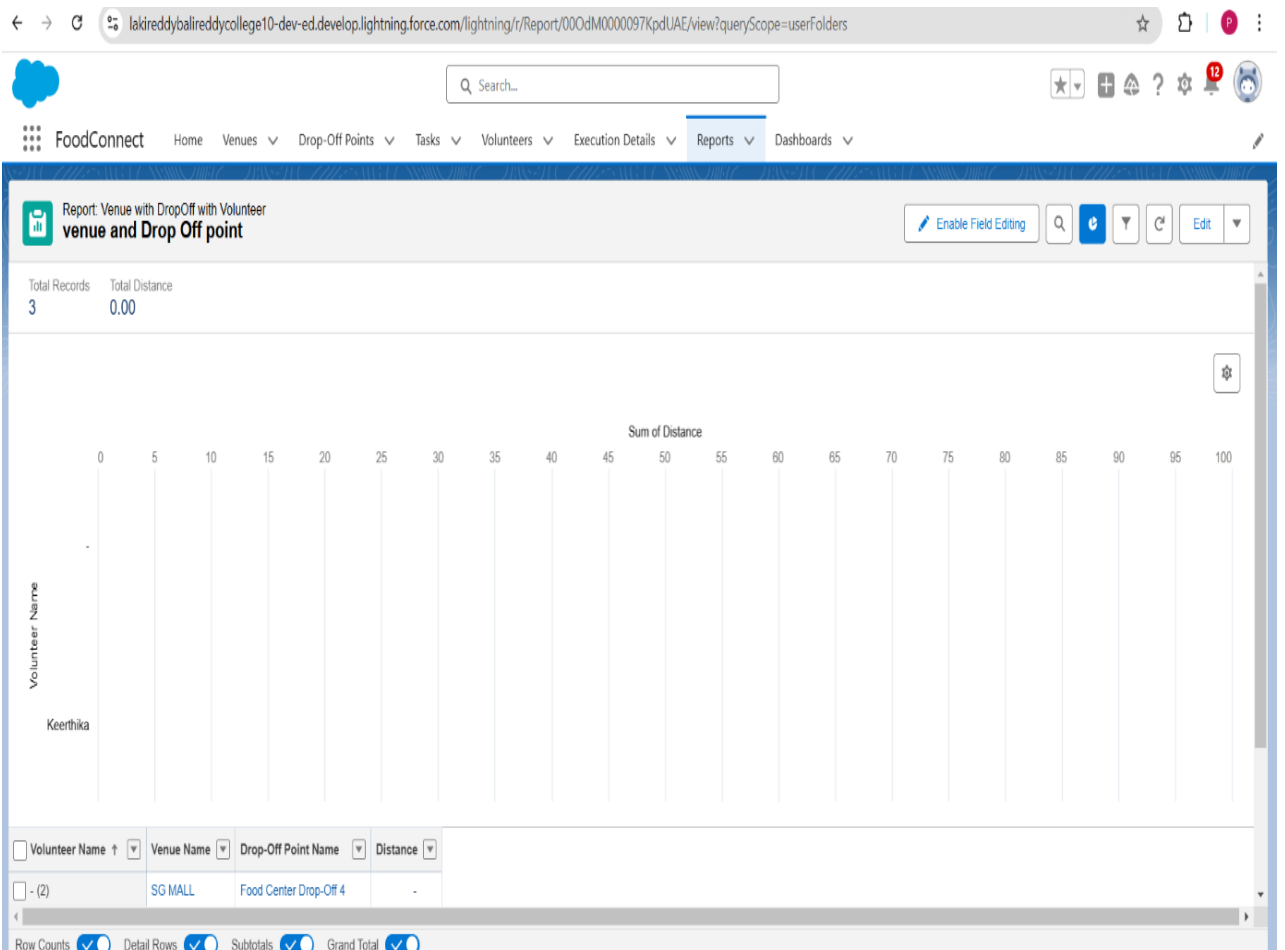
0.00

Row Counts

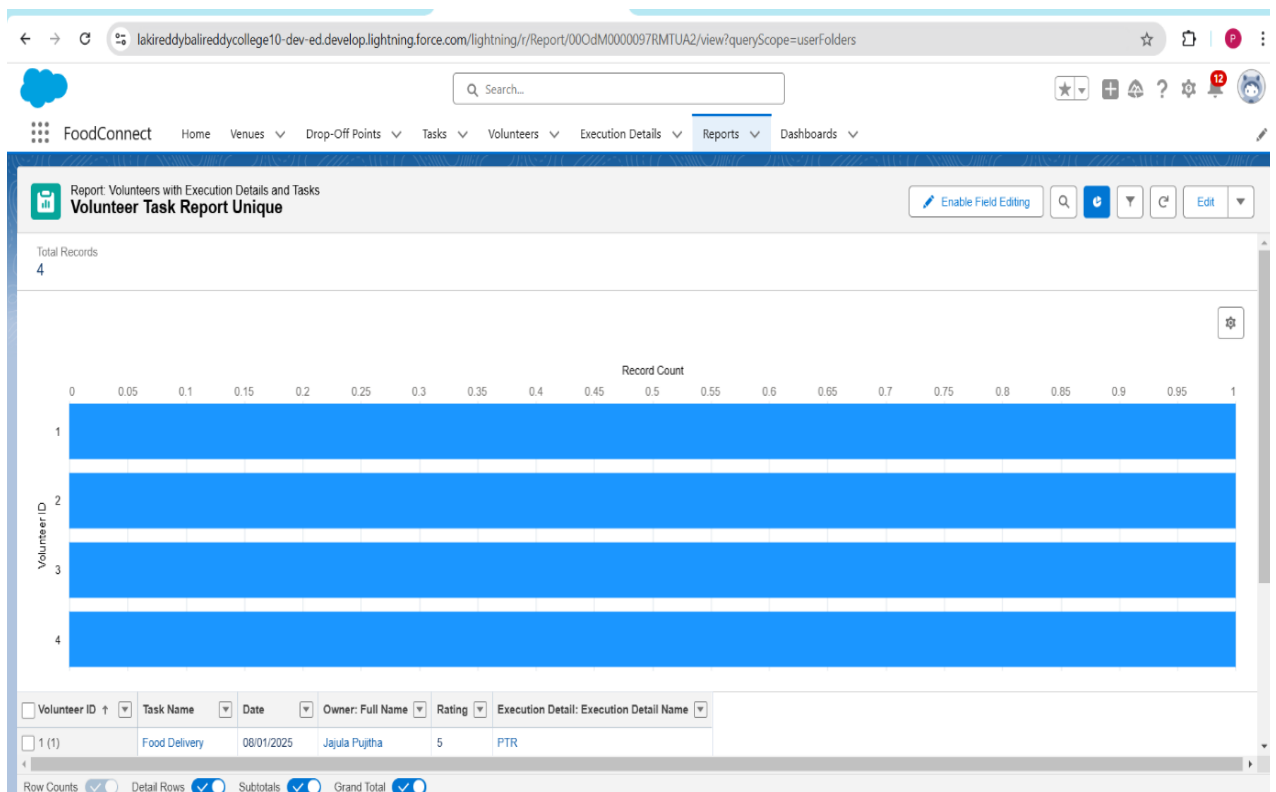
Detail Rows

Subtotals

Grand Total



Volunteer Task Report :



Organization Details:

← → ↺

lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/r/Dashboard/01ZdM000002wfKzUAI/view?queryScope=userFolders

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Q Search...

FoodConnect

Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

Dashboard

Organization Details

Refresh Edit Subscribe

As of 03-Jan-2025, 1:19 pm Viewing as Jajula Pujitha

venue and Drop Off point


Venue Name ↑	Drop-Off Point Name	Distance
hotel	-	-
SG MALL	Food Center Drop-Off 4	-

View Report (venue and Drop Off point)

Volunteer Task Report Unique

No data.
Try refreshing the dashboard.

View Report



Task Execution Details Page:

← → ↺

lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/r/Dashboard/01ZdM000002wgFRUAY/view?queryScope=userFolders

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Q Search...

FoodConnect

Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

Dashboard

Task Execution Details

Refresh Edit Subscribe

As of 03-Jan-2025, 1:52 pm Viewing as Jajula Pujitha

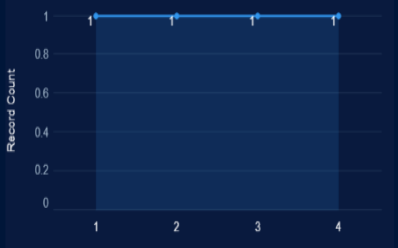
venue and Drop Off point

Venue Name ↑	Drop-Off Point Name	Distance
hotel	-	-
PVP	FoodCenter5	-
SG MALL	Food Center Drop-Off 4	-

View Report (venue and Drop Off point)


Volunteer Task Report Unique

Record Count



Volunteer ID	Record Count
1	1
2	1
3	1
4	1

View Report (Volunteer Task Report Unique)



5. Testing and Validation

➤ Unit Testing:

- Apex classes and triggers were tested for data integrity and automation workflows.

➤ User Interface Testing:

- Validated the functionality and responsiveness of forms and dashboards.
- Ensured data accuracy in reports and graphs under various use-case scenarios.

6. Key Scenarios Addressed by Salesforce in the Implementation

- **Venue Management:** Efficiently registers and manages venues offering leftover food.
- **Logistics Coordination:** Maps venues to drop-off points based on proximity and food availability.
- **Volunteer Engagement:** Tracks and reports volunteer activities to optimize performance.

7. Conclusion

➤ Summary of Achievements:

- Successfully developed the Food Connect app to connect food donors with recipients.
- Streamlined food distribution workflows, reducing waste and addressing hunger.
- Improved operational transparency and efficiency using Salesforce dashboards and reports.