

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.
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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

The screenshot displays the Salesforce Lightning interface for the FoodConnect application. The browser address bar shows the URL: `lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/page/home`. The page features a navigation bar with the following menu items: Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area is divided into three sections:

- Task Execution Details:** A header section with a "Task Execution Details" title, a timestamp "As of 03-Jan-2025, 1:52 pm Viewing as Jajula Pujitha", and action buttons for "Open", "Refresh", and "Subscribe".
- venue and Drop Off point:** A table listing venues and their drop-off points.

Venue Name	Drop-Off Point Name	Distance
hotel	-	-
PVP	FoodCenter5	-
SG MALL	Food Center Drop-Off 4	-
- Volunteer Task Report Unique:** A bar chart showing the record count for volunteer tasks. The x-axis represents the Volunteer ID (1 to 4), and the y-axis represents the Record Count (0 to 1). The chart shows a record count of 1 for each of the four volunteer IDs.
- Venue Form:** A form for entering venue details, including fields for Venue Name, Email, Phone, Venue Location, Longitude, and Latitude. A "Next" button is located at the bottom right of the form.

Venue Page:

The screenshot shows the 'Venues' page in the FoodConnect application. The browser address bar displays the URL: `lakireddybalireddycollege10-dev-ed.develop.lightning.force.com/lightning/o/Venue_c/list?filterName=__Recent`. The application header includes the 'FoodConnect' logo, a search bar, and navigation tabs: Home, Venues (selected), Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area features a 'Venues' section with a 'Recently Viewed' filter and a list of 6 items. The list includes a checkbox, a 'Venue Name' column, and a dropdown menu for each item. The items are: 1. PVP, 2. hotel, 3. SG MALL, 4. Community Center 1, 5. Royal Hall, and 6. Paradise Hall. The page also includes buttons for 'New', 'Import', 'Change Owner', and 'Assign Label', and a search bar for the list.

	<input type="checkbox"/> Venue Name	
1	<input type="checkbox"/> PVP	▼
2	<input type="checkbox"/> hotel	▼
3	<input type="checkbox"/> SG MALL	▼
4	<input type="checkbox"/> Community Center 1	▼
5	<input type="checkbox"/> Royal Hall	▼
6	<input type="checkbox"/> Paradise Hall	▼

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, a search bar, and navigation tabs: Home, Venues, Drop-Off Points (selected), Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area features a 'Drop-Off Points' section with a 'Recently Viewed' filter and a list of 5 items. The list includes a checkbox, a 'Drop-Off Point Name' column, and a dropdown menu for each item. The items are: 1. Food Center Drop-Off 1, 2. FoodCenter5, 3. Food Center Drop-Off 4, 4. Food Center Drop-Off 3, and 5. Food Center Drop-Off 2. The page also includes buttons for 'New', 'Import', 'Change Owner', and 'Assign Label', and a search bar for the list.

	<input type="checkbox"/> 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:

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

Tasks

Recently Viewed

2 items • Updated a few seconds ago

Search this list...

	Task Name	
1	Food Delivery	
2	Food Collecting	

Volunteers Page

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

Volunteers

Recently Viewed

4 items • Updated a few seconds ago

Search this list...

	Volunteer Name	
1	Keerthika	
2	Rose	
3	Gorge	
4	Henry Doe	

Execution Details Page:

FoodConnect

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

Q Search...

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⚙️

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Execution Details

Recently Viewed

New Import Assign Label

3 items • Updated a few seconds ago

Q Search this list...

⚙️

📄

🔄

✎

🗑️

⌵

	<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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Reports

Recent

Q Search recent reports...

New Report New Folder ⚙️

3 items

REPORTS

Recent

Created by Me

Private Reports

Public Reports

All Reports

FOLDERS

All Folders

Created by Me

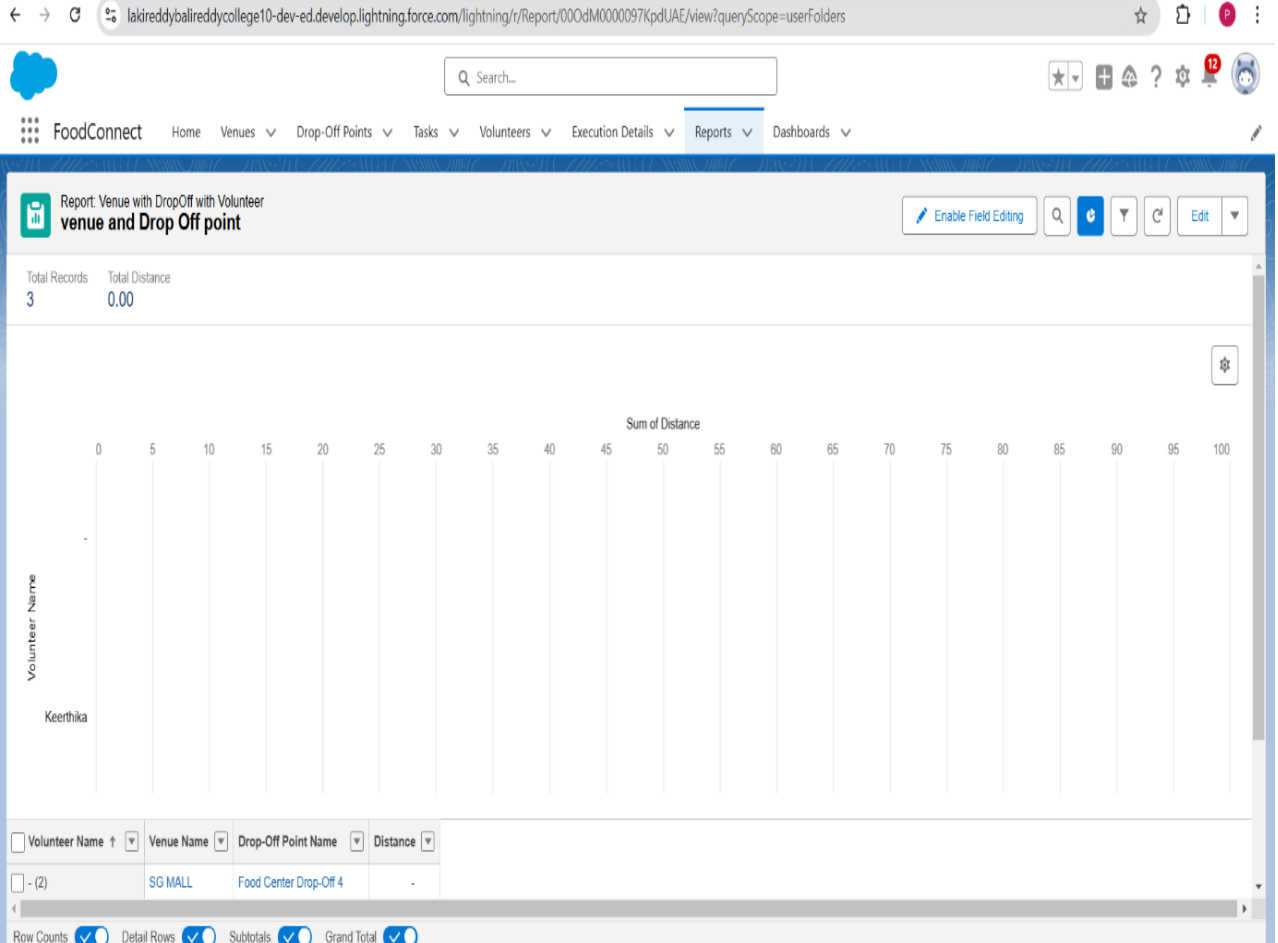
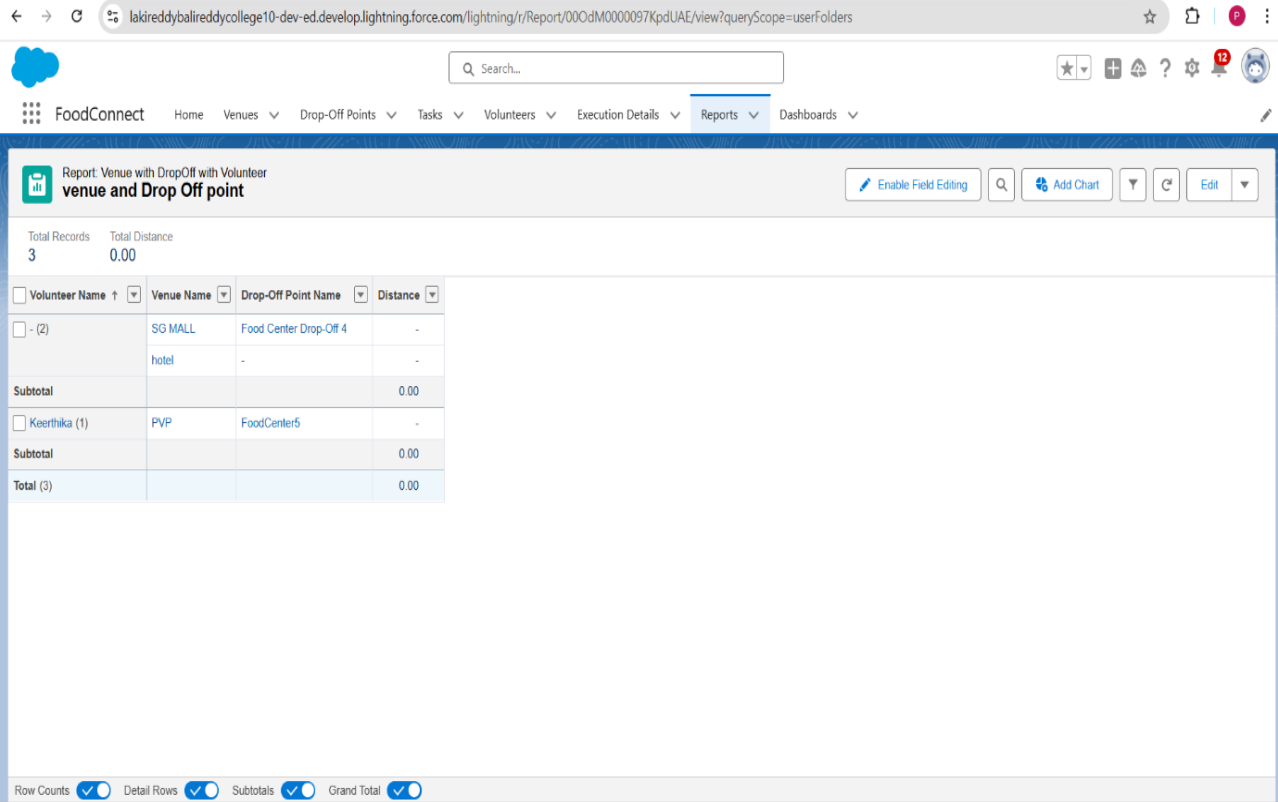
Shared with Me

FAVORITES

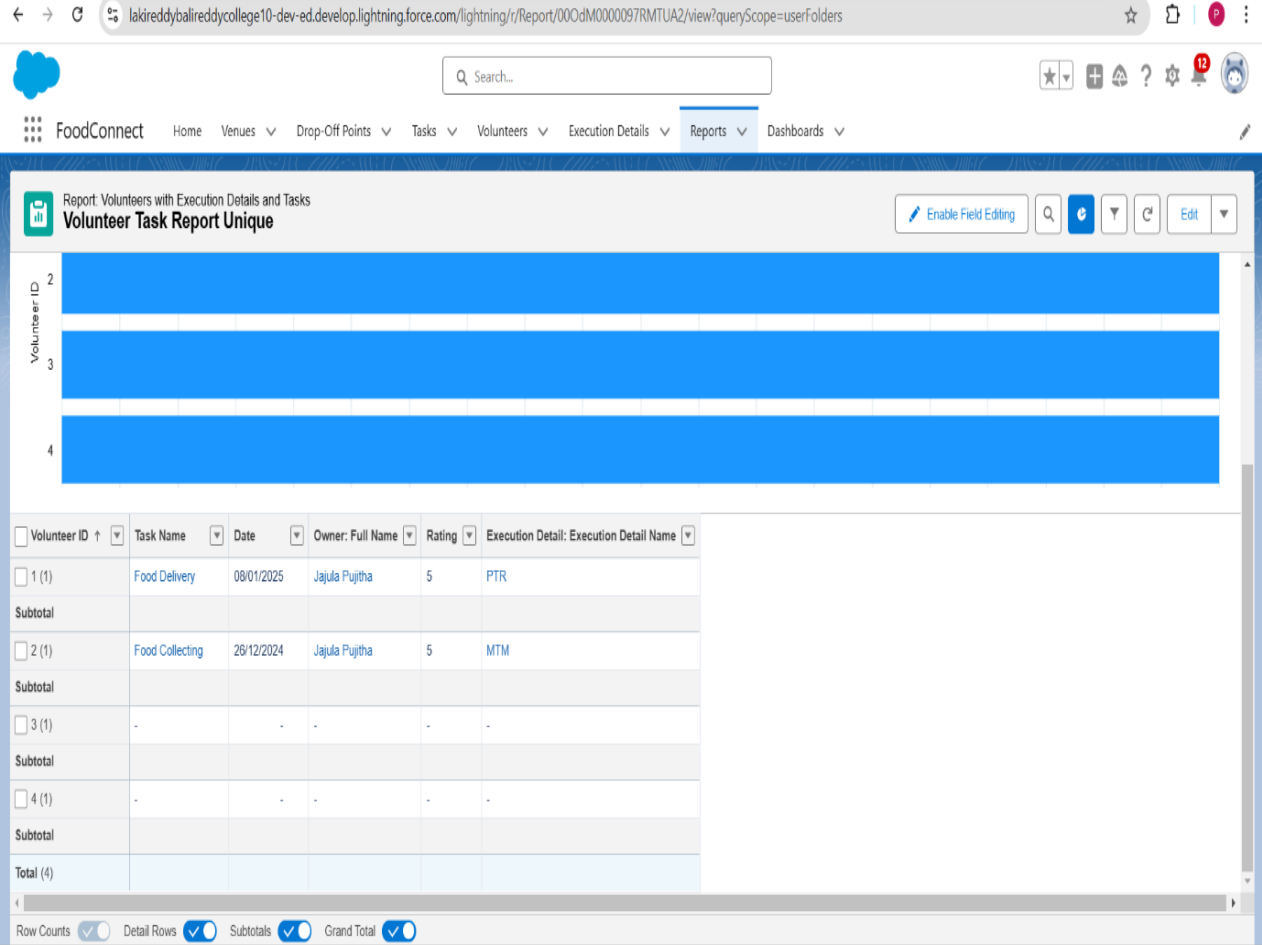
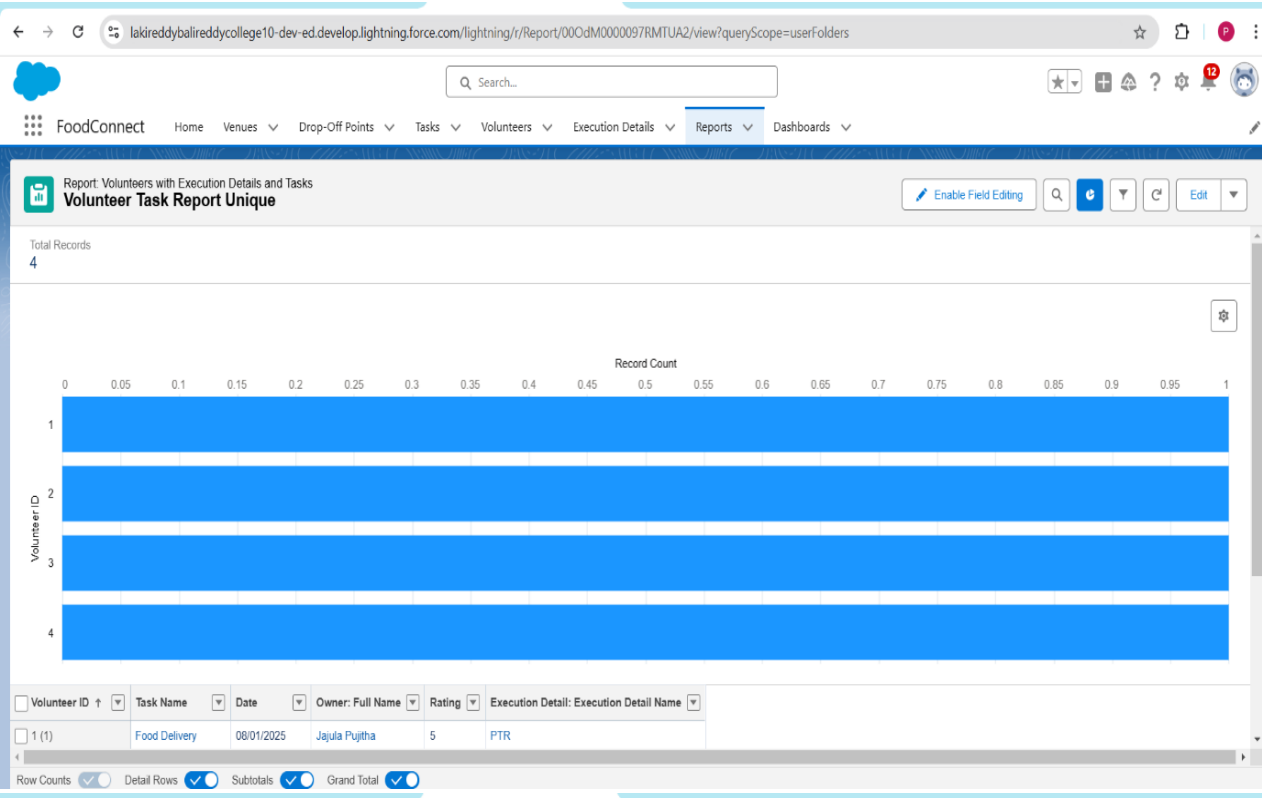
All Favorites

Report Name	Description	Folder	Created By	Created On	Subscribed
venue and Drop Off point		Custom Reports	Jajula Pujitha	24/12/2024, 1:37 pm	⌵
Volunteer Task Report Unique		Custom Reports	Jajula Pujitha	24/12/2024, 2:42 pm	⌵
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	⌵

Venue and Dropoff Point Report:



Volunteer Task Report :



Dashboards Page:

It contains Task Execution Details and Organization Details

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Search...

Star

Plus

Share

Help

12

Avatar

Dashboards

Recent

2 items

Search recent dashboards...

New Dashboard

New Folder

Settings

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Task Execution Details		Custom Dashboards	Jajula Pujitha	24/12/2024, 3:04 pm	
Created by Me	Organization Details		Private Dashboards	Jajula Pujitha	24/12/2024, 2:45 pm	
Private Dashboards						
All Dashboards						

FOLDERS

All Folders

Created by Me

Shared with Me

FAVORITES

All Favorites

Organization Details:

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Search...

Star

Plus

Share

Help

12

Avatar

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	-

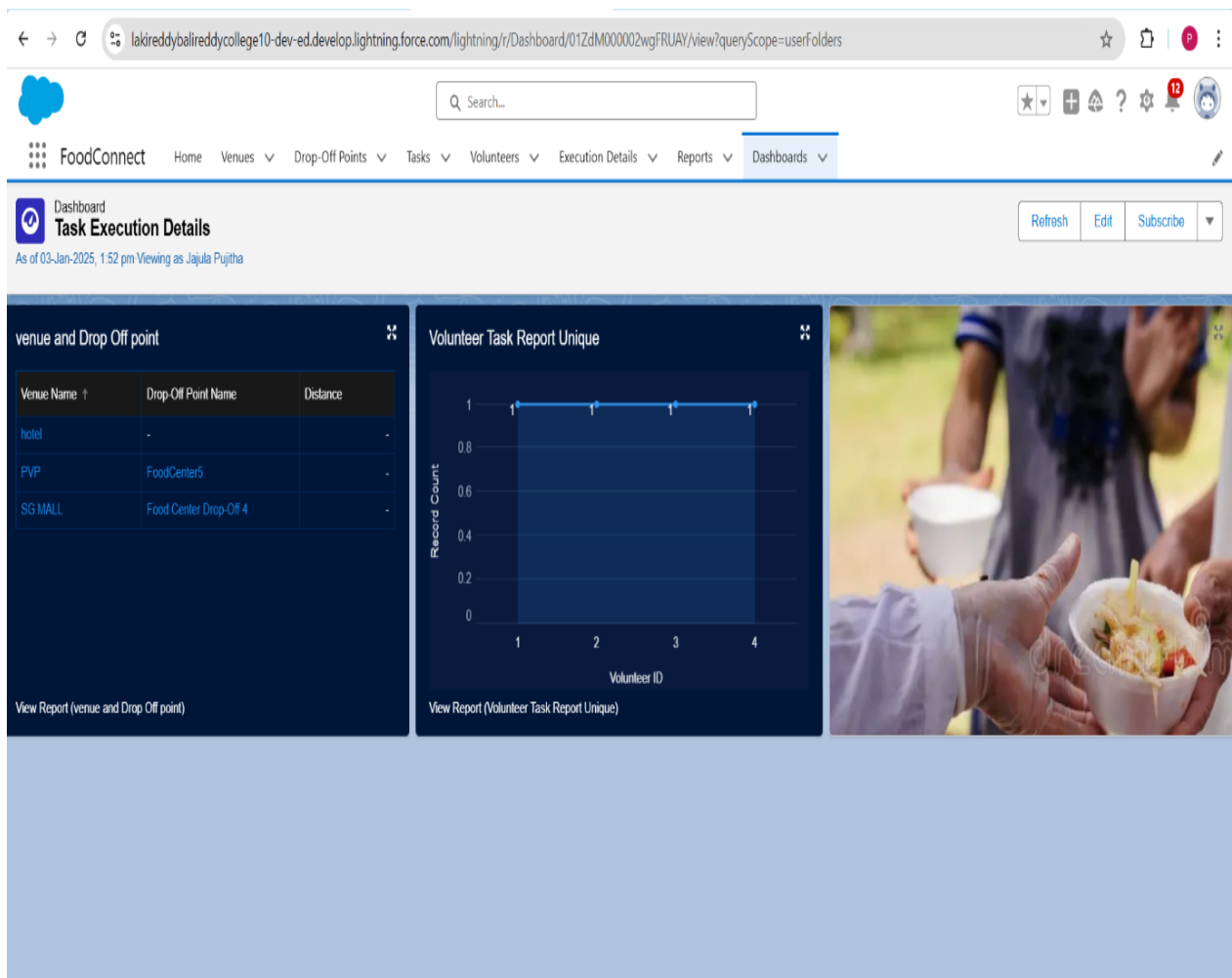
View Report (venue and Drop Off point)

Volunteer Task Report Unique

No data.
Try refreshing the dashboard.

View Report

Task Execution Details Page:



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.