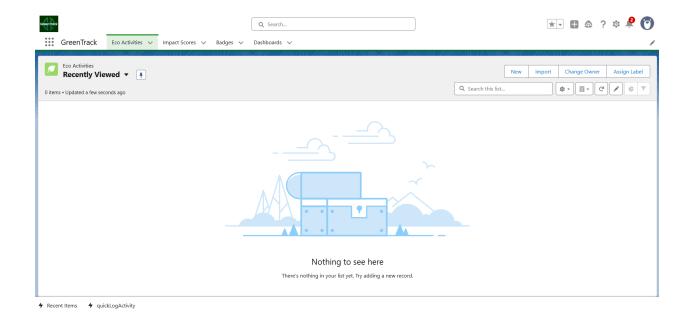
Phase 6:

User Interface Development

1) Create a Lightning App for GreenTrack

- Purpose: A dedicated workspace where users see only project-related tabs.
 - Go to: Setup \rightarrow App Manager \rightarrow New Lightning App
 - Name: GreenTrack
 - Branding: Add green/eco-friendly color theme.
 - Navigation Items (Tabs):
 - Eco Activities
 - Impact Scores
 - Badges
 - Dashboards
 - Assign Profiles: Admin, NGO Manager, Participant
- ← This ensures everyone uses the same branded app.



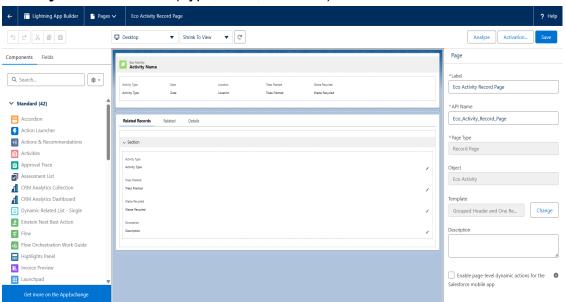
2) Create Tabs

- Purpose: Give users direct access to custom objects.
 - $\bullet \quad \mathsf{Setup} \to \mathsf{Tabs} \to \mathsf{New} \to \mathsf{Choose} \ \mathsf{Object} \to \mathsf{Eco} \ \mathsf{Activity}, \ \mathsf{Impact} \ \mathsf{Score}, \ \mathsf{Badge}$
 - Add to GreenTrack App

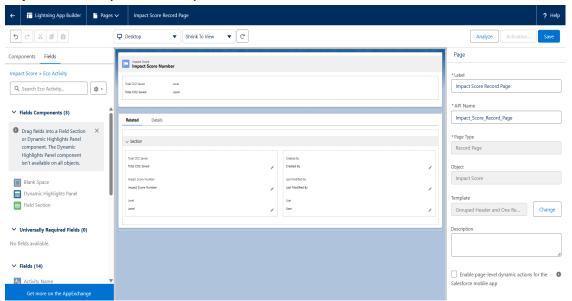
3) Record Pages (Lightning App Builder)

- Purpose: Customize how object records look.
 - $\bullet \quad \text{Setup} \to \text{Object Manager} \to \text{Eco Activity} \to \text{Lightning Record Pages} \to \text{New}$
 - Add components:

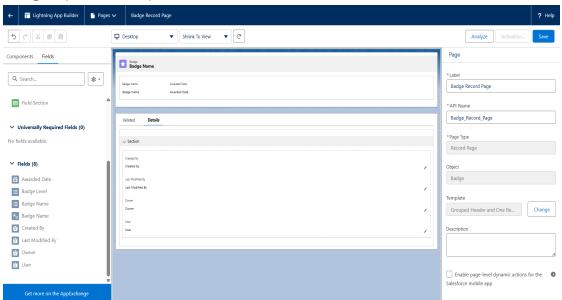
o Activity Details section (Type, Date, Location)



Impact Score (related list)

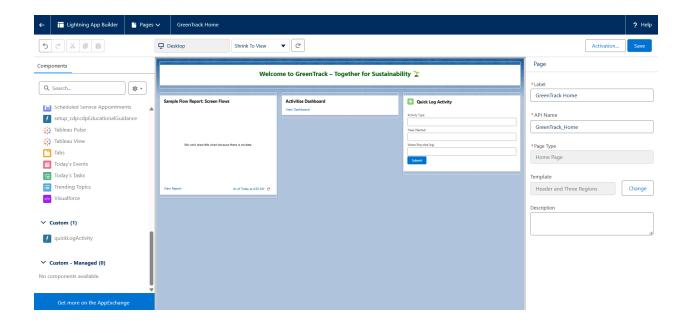


Badges (related list)



4) Home Page Layout

- Purpose: Give users an engaging landing page.
 - $\bullet \quad \text{Setup} \to \text{Lightning App Builder} \to \text{New Home Page}$
 - Add:
 - Welcome Text ("Welcome to GreenTrack Together for Sustainability ">")
 - Report Chart: Monthly CO₂ Saved
 - Dashboard Component: Top 5 Contributors



5) Utility Bar (Optional but adds flair)

- Purpose: Quick access to features at the bottom bar.
 - Setup → App Manager → GreenTrack → Edit → Utility Bar
 - Add:
 - Notes (quick meeting notes)
 - Recent Items (Eco Activities)
 - Custom LWC (Quick Log Activity form explained below).

6) Lightning Web Component (LWC) - Quick Log Activity

Purpose: Coding + Usability.

File Structure:

quickLogActivity.html

quickLogActivity.js

```
import { LightningElement, track } from 'lwc';
import { ShowToastEvent } from
'lightning/platformShowToastEvent';
import ECO_OBJECT from '@salesforce/schema/Eco_Activity__c';
import ACTIVITY_TYPE from
'@salesforce/schema/Eco_Activity__c.Activity_Type__c';
import TREES_PLANTED from
'@salesforce/schema/Eco_Activity__c.Trees_Planted__c';
```

```
import WASTE_RECYCLED from
'@salesforce/schema/Eco_Activity__c.Waste_Recycled__c';
import { createRecord } from 'lightning/uiRecordApi';
export default class QuickLogActivity extends LightningElement {
    @track activityType;
    @track treesPlanted:
    @track wasteRecycled;
    handleChange(event) {
        const field = event.target.label;
        if (field === 'Activity Type') this.activityType =
event.target.value;
        if (field === 'Trees Planted') this.treesPlanted =
event.target.value;
        if (field === 'Waste Recycled (kg)') this.wasteRecycled
= event.target.value;
    handleSubmit() {
        const fields = {};
        fields[ACTIVITY_TYPE.fieldApiName] = this.activityType;
        fields[TREES_PLANTED.fieldApiName] = this.treesPlanted;
        fields[WASTE_RECYCLED.fieldApiName] =
this.wasteRecycled;
        const recordInput = { apiName: ECO_OBJECT.objectApiName,
fields };
        createRecord(recordInput)
            .then(() => {
                this.dispatchEvent(
                    new ShowToastEvent({
                        title: 'Success',
```

```
message: 'Eco Activity logged
successfully!',
                         variant: 'success'
                     })
                 );
            })
             .catch(error => {
                 this.dispatchEvent(
                     new ShowToastEvent({
                         title: 'Error',
                         message: error.body.message,
                         variant: 'error'
                     })
                );
            });
    }
```

quickLogActivity.js-meta.xml

7) Chart Pattern Example Structure:

Monthly CO₂ Saved Activity Breakdown 1000 Awareness Drive 900 800 Recycling 700 30.0% 600 500 400 Tree Plantation 300 May Top 5 Contributors (CO₂ Saved) Badge Distribution 1200 40

30

20

10

Bronze

Silver

Gold

GreenTrack - Sample Dashboard Layout

8) Testing Checklist

User A

User B

User C

1000

800 600

400

200

• Log in as a Participant \rightarrow Open GreenTrack app \rightarrow See tabs & navigation.

User E

Create Eco Activity → Verify related Impact Score is visible.

User D

- Home Page → Dashboard chart visible.
- Quick Log Activity LWC → Record should save successfully.