

## Phase 6:

# User Interface Development

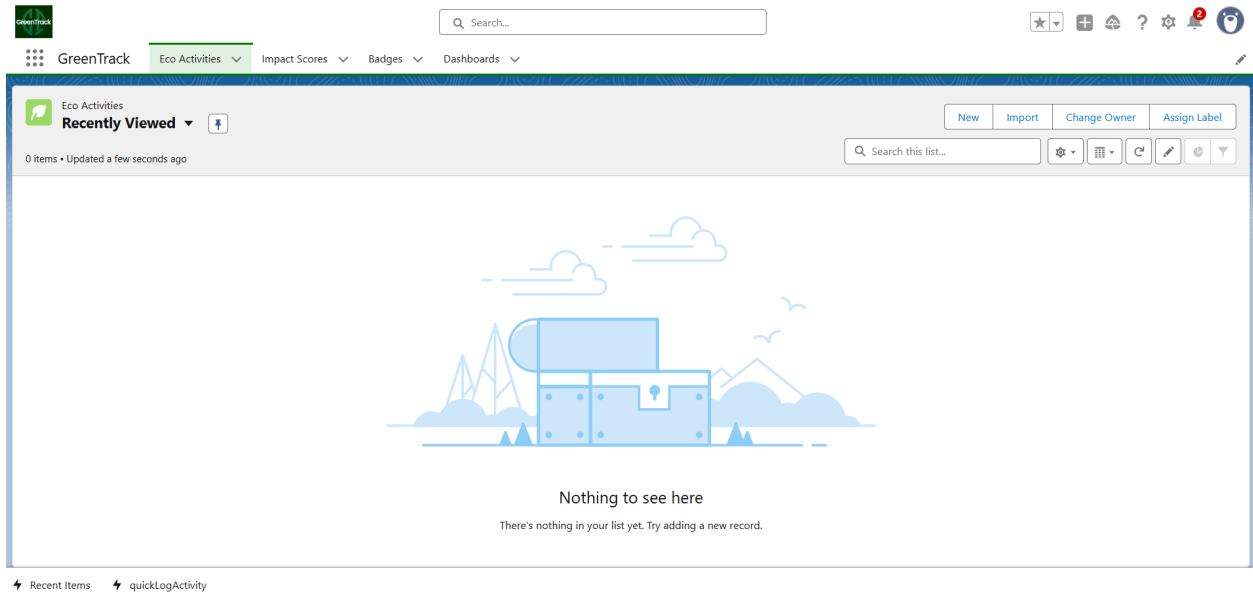
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### 1) Create a Lightning App for GreenTrack

**Purpose:** A dedicated workspace where users see only project-related tabs.

- Go to: **Setup** → **App Manager** → **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.

- Setup → Tabs → New → Choose Object → Eco Activity, Impact Score, Badge
- Add to **GreenTrack** App

## 3) Record Pages (Lightning App Builder)

**Purpose:** Customize how object records look.

- Setup → Object Manager → Eco Activity → Lightning Record Pages → New
- Add components:

- Activity Details section (Type, Date, Location)

Lightning App Builder

Pages

Eco Activity Record Page

Help

Desktop

Shrink To View

Analyze

Activation...

Save

Components

Fields

Search...

Standard (42)

Accordion

Action Launcher

Actions & Recommendations

Activities

Approval Trace

Assessment List

CRM Analytics Collection

CRM Analytics Dashboard

Dynamic Related List - Single

Einstein Next Best Action

Flow

Flow Orchestration Work Guide

Highlights Panel

Invoice Preview

Launchpad

Get more on the AppExchange

Eco Activity

Activity Name

Activity Type

Date

Location

Team Planned

Waste Recycled

Activity Type

Date

Location

Team Planned

Waste Recycled

Related Records

Related

Details

Section

Activity Type

Activity Type

Team Planned

Team Planned

Waste Recycled

Waste Recycled

Description

Description

Page

\* Label

Eco Activity Record Page

\* API Name

Eco\_Activity\_Record\_Page

\* Page Type

Record Page

Object

Eco Activity

Template

Grouped Header and One Re...

Change

Description

Enable page-level dynamic actions for the Salesforce mobile app

- Impact Score (related list)

Lightning App Builder

Pages

Impact Score Record Page

Help

Desktop

Shrink To View

Analyze

Activation...

Save

Components

Fields

Impact Score > Eco Activity

Search Eco Activity...

Fields Components (3)

Drag fields into a Field Section or Dynamic Highlights Panel component. The Dynamic Highlights Panel component isn't available on all objects.

Blank Space

Dynamic Highlights Panel

Field Section

Universally Required Fields (0)

No fields available.

Fields (14)

Activity Name

Get more on the AppExchange

Impact Score

Impact Score Number

Total CO2 Saved

Level

Total CO2 Saved

Level

Related

Details

Section

Total CO2 Saved

Total CO2 Saved

Impact Score Number

Impact Score Number

Level

Level

Created By

Created By

Last Modified By

Last Modified By

User

User

Page

\* Label

Impact Score Record Page

\* API Name

Impact\_Score\_Record\_Page

\* Page Type

Record Page

Object

Impact Score

Template

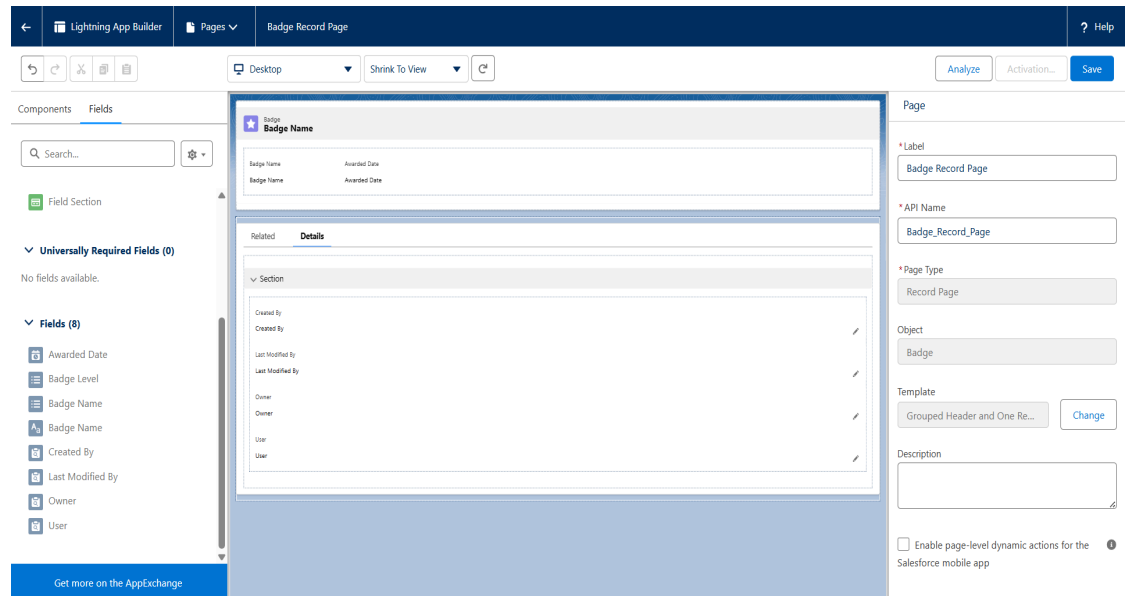
Grouped Header and One Re...

Change

Description

Enable page-level dynamic actions for the Salesforce mobile app

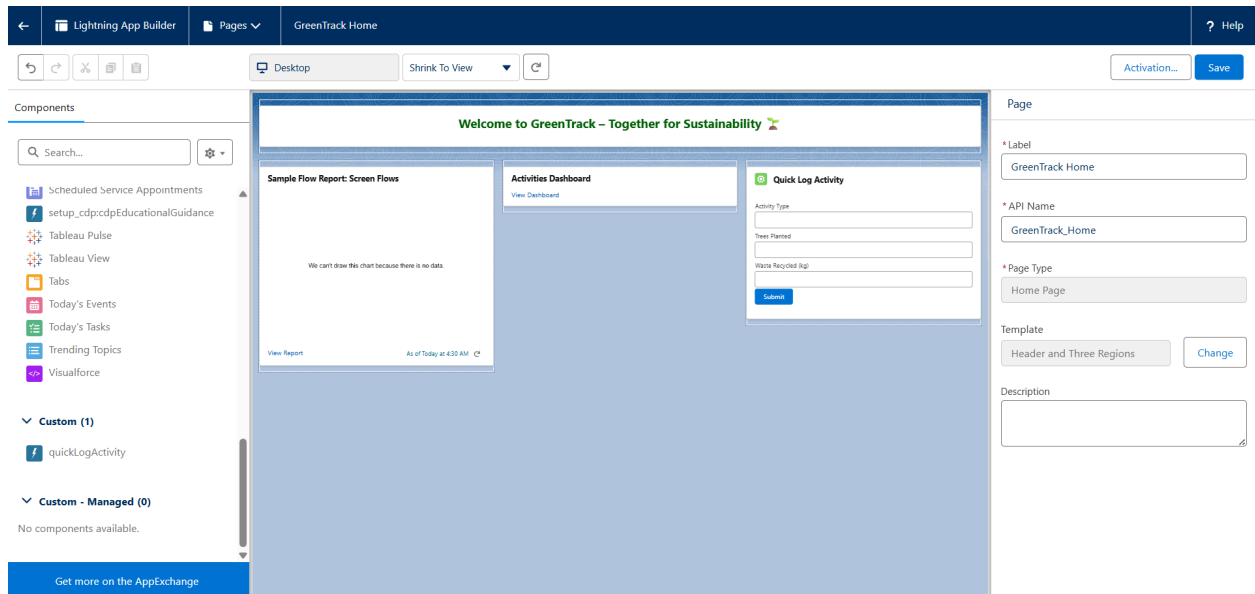
- **Badges (related list)**



## 4) Home Page Layout

**Purpose:** Give users an engaging landing page.

- Setup → Lightning App Builder → New Home Page
- Add:
  - Welcome Text (“Welcome to GreenTrack – Together for Sustainability 🌱”)
  - Report Chart: *Monthly CO<sub>2</sub> 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:**

*lwc/*

```
|-- quickLogActivity/  
    |-- quickLogActivity.html  
    |-- quickLogActivity.js  
    |__ quickLogActivity.js-meta.xml
```

### **quickLogActivity.html:**

```
<template>  
  <lightning-card title="Quick Log Activity" icon-name="custom:custom63">  
    <div class="slds-p-around_medium">  
      <lightning-input label="Activity Type" type="text" value={activityType}  
onchange={handleChange}></lightning-input>  
      <lightning-input label="Trees Planted" type="number" value={treesPlanted}  
onchange={handleChange}></lightning-input>  
      <lightning-input label="Waste Recycled (kg)" type="number" value={wasteRecycled}  
onchange={handleChange}></lightning-input>  
      <lightning-button label="Submit" onclick={handleSubmit}  
variant="brand"></lightning-button>  
    </div>  
  </lightning-card>  
</template>
```

### **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

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

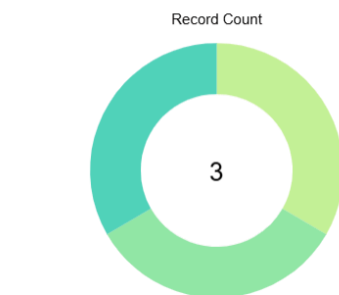
<LightningComponentBundle
xmlns="http://soap.sforce.com/2006/04/metadata">
  <apiVersion>58.0</apiVersion>
  <isExposed>true</isExposed>
  <targets>
    <target>lightning__AppPage</target>
    <target>lightning__RecordPage</target>
    <target>lightning__HomePage</target>
    <target>lightning__UtilityBar</target>
  </targets>
</LightningComponentBundle>

```

This lets users quickly log an activity from anywhere in the app.

## 7) Chart Patterns:

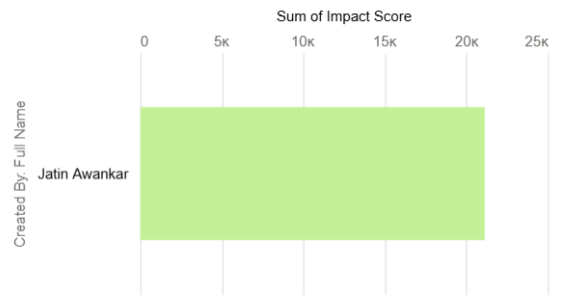
Activity Breakdown by Type



[View Report \(Activity Breakdown by Type\)](#)

As of Sep 21, 2025, 5:17 AM

Top Contributors (Leaderboard)

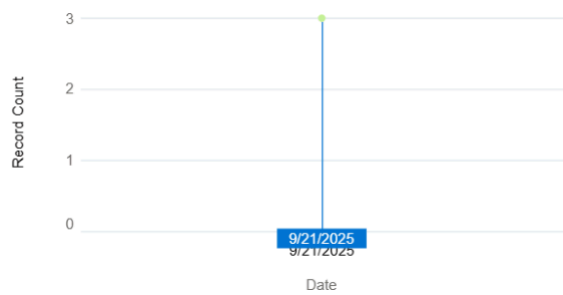


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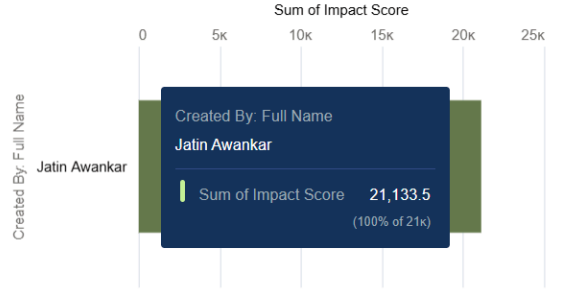
Monthly CO<sub>2</sub> Saved



[View Report \(Monthly CO<sub>2</sub> Saved\)](#)

As of Sep 23, 2025, 7:17 AM

Top Contributors (Leaderboard)



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As of Sep 21, 2025, 5:17 AM

## 8) Testing Checklist

- Log in as a Participant → Open **GreenTrack** app → See tabs & navigation.
- Create Eco Activity → Verify related Impact Score is visible.
- Home Page → Dashboard chart visible.
- Quick Log Activity LWC → Record should save successfully.
- Dashboard screenshots