

## Phase 4: Lightning Web Components Creation

### ❖ STEP 1 Create LWC Bundle

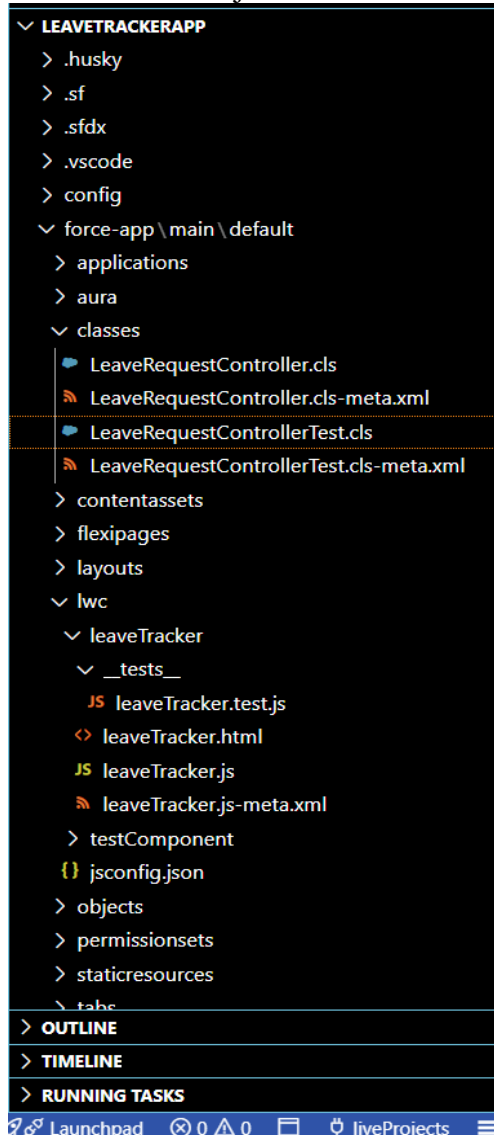
-In VS Code explorer, right-click force-app/main/default/lwc/

-Select SFDX Create Lightning Web Component.

-Name the component: leaveTracker(exactly, no spaces).

Press Enter. A new folder leaveTrackeris created with:

- leaveTracker.html
- leaveTracker.js
- leaveTracker.js-meta.xml
- leaveTracker.test.js



## ❖ STEP 2 Build the HTML Template

Open leaveTracker.html and replace its contents with:

**Code:**

```
<template>
  <lightning-card title="My Leave Requests">
    <div class="slds-p-around_medium">
      <!-- New Request Form -->
      <lightning-record-edit-form object-api-name="LeaveRequest__c"
                                onSuccess={handleSuccess}>
        <div class="slds-grid slds-wrap">
          <lightning-input-field field-name="From_Date__c"></lightning-input-
field>
          <lightning-input-field field-name="To_Date__c"></lightning-input-
field>
          <lightning-input-field field-name="Reason__c"></lightning-input-
field>
        </div>
        <lightning-button type="submit" label="Submit Request"
                          class="slds-m-top_small"></lightning-button>
      </lightning-record-edit-form>
    </div>
    <lightning-datatable key-field="id"
                        data={leaves}
                        columns={columns}
                        hide-checkbox-column>
      </lightning-datatable>
    </lightning-card>
  </template>
```

## ❖ STEP 3 Implement JavaScript Logic

Open leaveTracker.js and replace with:

**Code:**

```
import { LightningElement, wire, track } from 'lwc';
import getMyLeaves from '@salesforce/apex/LeaveRequestController.getMyLeaves';
import { refreshApex } from '@salesforce/apex';

export default class LeaveTracker extends LightningElement {
  @track leaves = [];
```

```

columns = [
  { label: 'Leave ID', fieldName: 'Name' },
  { label: 'From Date', fieldName: 'From_Date__c', type: 'date' },
  { label: 'To Date', fieldName: 'To_Date__c', type: 'date' },
  { label: 'Reason', fieldName: 'Reason__c' },
  { label: 'Status', fieldName: 'Status__c' }
];

@wire(getMyLeaves)
wiredLeaves({ error, data }) {
  if (data) {
    this.leaves = data;
  } else if (error) {
    // handle error
  }
}

handleSuccess() {
  // Refresh data after successful record creation
  return refreshApex(this.leaves);
}
}

```

#### ❖ STEP 4 Configure Component Metadata

Open leaveTracker.js-meta.xml and ensure:

**Code:**

```

<?xml version="1.0" encoding="UTF-8"?>
<LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
  <apiVersion>64.0</apiVersion>
  <isExposed>true</isExposed>
  <targets>
    <target>lightning__AppPage</target>
    <target>lightning__HomePage</target>
    <target>lightning__RecordPage</target>
  </targets>
</LightningComponentBundle>

```

### ❖ **STEP 5 Add Styling (Optional)**

In leaveTracker.css, add:

```
.slds-p-around_medium {  
  
background-color: #f3f6fb;  
  
}
```

Note: This applies a light background to the form area.

### ❖ **STEP 6 Deploy to Org**

-Save all changes in VS Code. Right-click the leaveTracker folder → SFDX Deploy Source to Org.

-Wait for "Deploy Succeeded" message.

### ❖ **STEP 7 Add Component to Lightning Page**

-In Salesforce, click App Launcher → Lightning App Builder.

-Open or create a Home or App page.

-Drag the leaveTracker component from the Custom section onto the canvas.

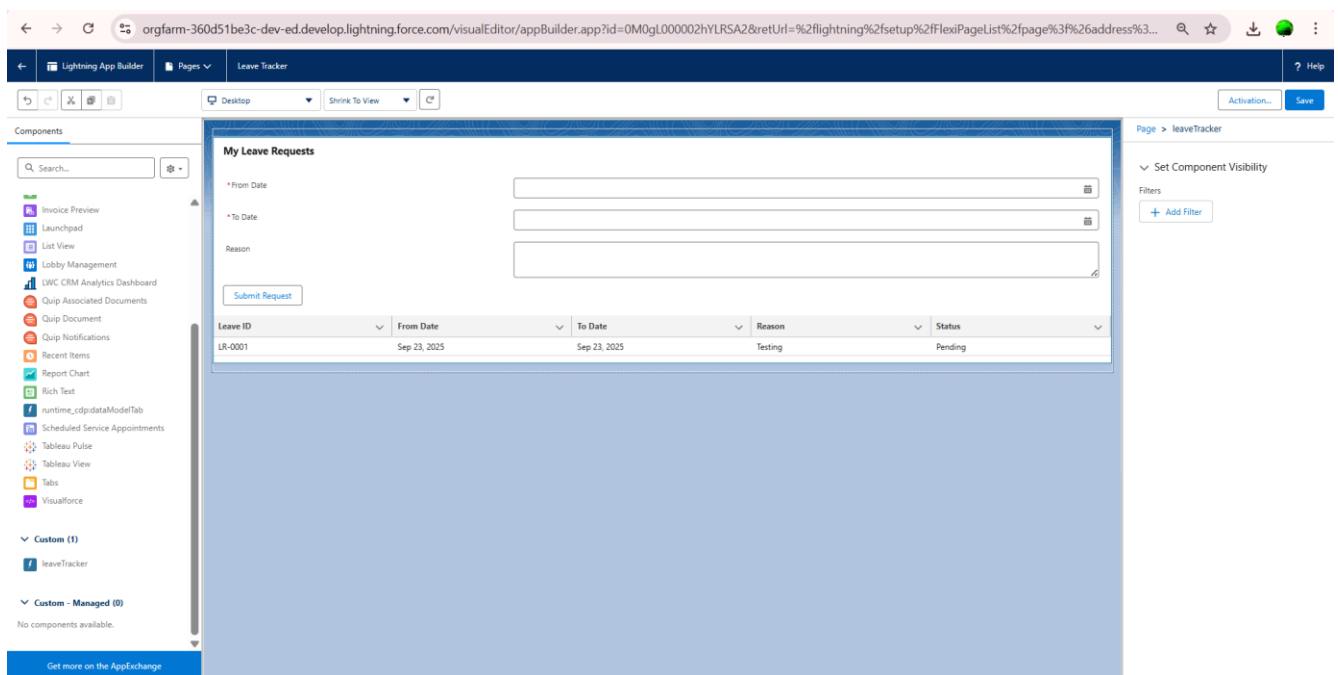
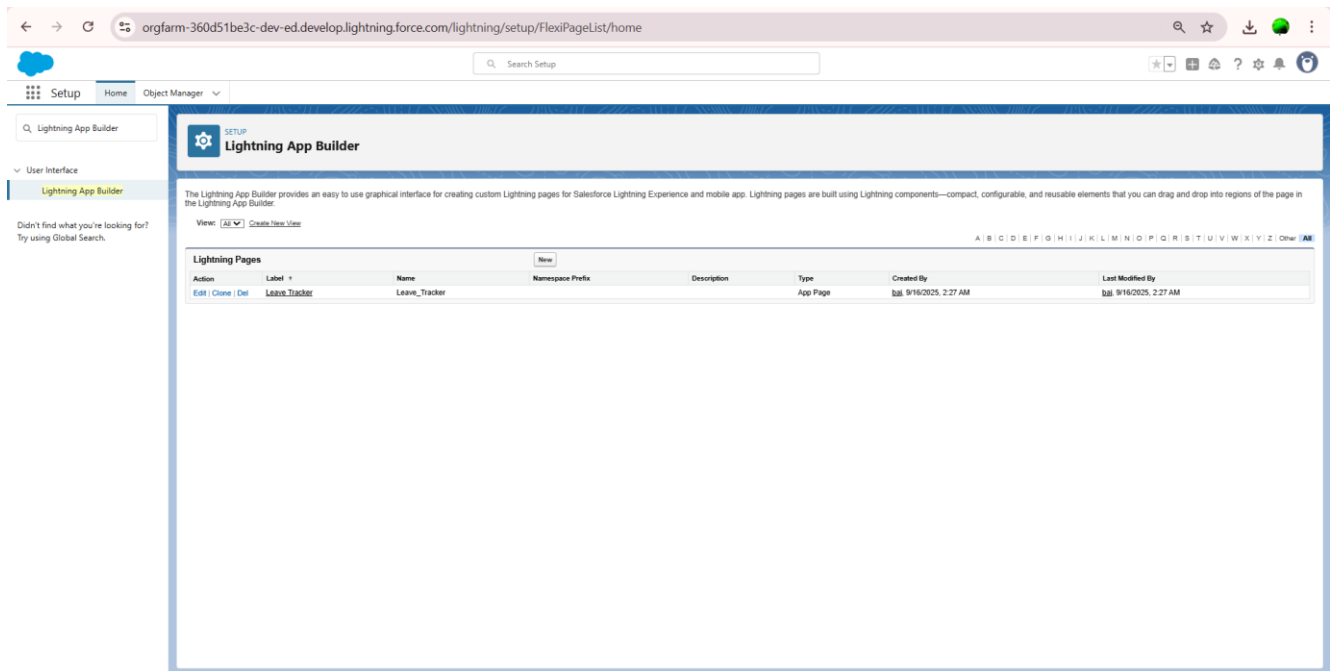
-Click Save, then Activate.

### ❖ **STEP 8 Test the UI**

-Navigate to the Lightning page where you added the component.

-Submit a new leave request via the form.

-Verify the datatable updates with the new record.



← → ↻ orgfarm-360d51be3c-dev-ed.develop.lightning.force.com/lightning/n/Leave\_Tracker

Search...

Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar People Cases Forecasts Students Leave Requests Leave Tracker

### Leave Tracker

#### My Leave Requests

\*From Date  
Sep 29, 2025

\*To Date  
Sep 30, 2025

Reason  
Going outside.

Submit Request

Leave ID	From Date	To Date	Reason	Status
LR-0001	Sep 23, 2025	Sep 23, 2025	Testing	Pending

Search...

Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar People Cases Forecasts Students Leave Requests Leave Tracker

### Leave Request LR-0005

Related Details

Auto Number  
LR-0005

From Date  
9/29/2025

To Date  
9/30/2025

Reason  
Going outside for eating food.

Status  
Pending

User  
Search People...

Manager Comment

Created By  
SHAIK BAJI, 9/24/2025, 2:53 AM

Owner  
SHAIK BAJI

Auto Number  
LR-0005

\*From Date  
9/29/2025

\*To Date  
9/30/2025

Reason  
Going outside for eating food.

Status  
Pending

User  
Search People...

Manager Comment

Created By  
SHAIK BAJI, 9/24/2025, 2:53 AM

Last Modified By  
SHAIK BAJI, 9/24/2025, 2:53 AM

Cancel Save & New Save

Success! We now have a fully functional Leave Tracking UI.