

User Interface Development -- Phase 6

1. Lightning App Builder

The screenshot shows the 'App Details & Branding' configuration page in the Lightning App Builder. The left sidebar lists 'App Settings' with sub-items: 'App Details & Branding' (selected), 'App Options', 'Utility Items (Desktop Only)', 'Navigation Items', and 'User Profiles'. The main content area is titled 'App Details & Branding' and includes instructions: 'Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.' It is divided into two sections: 'App Details' and 'App Branding'. The 'App Details' section contains fields for 'App Name' (Smart Farming CRM), 'Developer Name' (Smart_Farming_CRM), and 'Description' (App for Farmers and Buyers to manage crops, orders, and shipments). The 'App Branding' section includes an 'Image' upload area, a 'Primary Color Hex Value' dropdown set to '#0070D2', and 'Org Theme Options' with a checkbox 'Use the app's image and color instead of the org's custom theme'. At the bottom, an 'App Launcher Preview' shows a blue square with 'SF' and the app name and description.

Lightning App Builder | App Settings | Pages | Smart Farming CRM | ? Help

App Settings

App Details & Branding

App Options

Utility Items (Desktop Only)

Navigation Items

User Profiles

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

* App Name ⓘ
Smart Farming CRM

* Developer Name ⓘ
Smart_Farming_CRM

Description ⓘ
App for Farmers and Buyers to manage crops, orders, and shipments.

App Branding

Image ⓘ
Upload

Primary Color Hex Value ⓘ
#0070D2

Org Theme Options
☐ Use the app's image and color instead of the org's custom theme

App Launcher Preview

SF Smart Farming CRM
App for Farmers and Buyers to manage crops, orders, an...

2. Record pages

The screenshot shows the 'Crop Listing Record Page' configuration page in the Lightning App Builder. The browser address bar shows the URL: 'orgfarm-1d4ec8c730-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=0M0gK000002zxd7SAA&clone=false&retUrl=%2flightning%2fsetup...'. The left sidebar lists 'Components' and 'Fields'. The 'Components' list includes: CRM Analytics Dashboard, Dynamic Related List - Single, Einstein Next Best Action, Flow, Flow Orchestration Work Guide, Highlights Panel, Invoice Preview, Launchpad, List View, LWC CRM Analytics Dashboard, My Labels, and Path. The main content area shows a preview of the 'Crop Listing Record Page' with a table of crop listings and a form for editing a record. The right sidebar shows the 'Page > Highlights Panel' configuration with options: 'Show as collapsed (desktop only)', 'Hide Follow/Unfollow button (desktop only)', and 'Visible Action Buttons (desktop only)' set to 3. There is also an 'Upgrade to Dynamic Actions' section with a description and an 'Upgrade Now' button. At the bottom, a note states: 'Highlights Panel content comes from compact layouts and page layouts. With dynamic actions enabled, actions come from the Lightning App Builder.'

FO-0001 | Farming Order | Crop Listing Record Page - L | Home | Salesforce | Smart Farming CRM - Crop | vighnasi/Smart-Farming-CR | + | - | ? Help

Lightning App Builder | Pages | Crop Listing Record Page | ? Help

Desktop | Shrink To View | Analyze | Activation... | Save

Components | Fields

Search...

CRM Analytics Dashboard

Dynamic Related List - Single

Einstein Next Best Action

Flow

Flow Orchestration Work Guide

Highlights Panel

Invoice Preview

Launchpad

List View

LWC CRM Analytics Dashboard

My Labels

Path

Get more on the AppExchange

Crop Listing Record Page

Crop Listing
10/1/2025

Crop Name	Crop Type	Price	Quantity
Wheat	Wheat	\$25.00	100.00

Crop Number CR 0001

Crop Name Wheat

Quantity 100.00

Price \$25.00

Location guntur

Crop Type Wheat

Availability Date 10/1/2025

Record Type

Created By Makkena Vighnasi, 9/30/2025, 7:37 AM

Last Modified By Makkena Vighnasi, 9/30/2025, 7:37 AM

Page > Highlights Panel

☐ Show as collapsed (desktop only) ⓘ

☐ Hide Follow/Unfollow button (desktop only)

Visible Action Buttons (desktop only) ⓘ
3

Upgrade to Dynamic Actions
You can now configure dynamic actions for the highlights panel in the Lightning App Builder.
Upgrade Now

Highlights Panel content comes from compact layouts and page layouts. With dynamic actions enabled, actions come from the Lightning App Builder.

← → ↻ orgfarm-1d4ec8c730-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?&retUrl=https%3A%2F%2Forgfarm-1d4ec8c730-dev-ed.develop.lightni... ☆ 📌 All Bookmarks

Lightning App Builder Pages Buyer Requirement Record Page ? Help

Desktop Shrink To View Changes saved. Analyze Activation... Save

Components Fields

Search...

- Quip Document
- Quip Notifications
- Recent Items
- Recommendations
- Record Detail
- Record Detail - Mobile
- Related List - Single
- Related List Quick Links
- Related Lists
- Related Record
- Report Chart
- Rich Text

Get more on the AppExchange

Buyer Requirement
10/3/2025

Quantity Needed: 50.00 Requirement Name: Wheat

Requirement Number: BR-0001 Owner: Makkena Vighnesh

Requirement Name: Wheat

Quantity Needed: 50.00

Quantity Spent: organic

Buyer:

Related Crop: CR-0001

Delivery Timeline: 10/1/2025

Budget Price: \$180

Status: Draft

Created By: Makkena Vighnesh, 9/10/2025, 7:41 AM

Last Modified By: Makkena Vighnesh, 9/10/2025, 7:41 AM

Page > Record Detail

You can configure record detail sections and fields right inside the Lightning App Builder. Upgrade to Dynamic Forms, and start putting individual fields and sections anywhere on the page.

Upgrade Now

Record Detail content comes from page layouts.

See How It Works

Set fields in Page Layouts

Assign Page Layouts

Buyer Requirement Layout (previewed)

View all layouts

← → ↻ orgfarm-1d4ec8c730-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?&retUrl=https%3A%2F%2Forgfarm-1d4ec8c730-dev-ed.develop.lightni... ☆ 📌 All Bookmarks

Lightning App Builder Pages Farming Order Record Page ? Help

Desktop Shrink To View Analyze Activation... Save

Components Fields

Search...

- Quip Associated Documents
- Quip Document
- Quip Notifications
- Recent Items
- Recommendations
- Record Detail
- Record Detail - Mobile
- Related List - Single
- Related List Quick Links
- Related Lists
- Related Record
- Report Chart

Get more on the AppExchange

Farming Order

Crop: CR-0001 Order Date: 9/10/2025 Order Status: Pending Total Amount: \$100.00

Order Number: FO-0001 Owner: Makkena Vighnesh

Order Date: 9/10/2025

Order Status: Pending

Buyer:

Farmer:

Crop: CR-0001

Total Amount: \$100.00

Assigned User: Logistics Partner

Created By: Makkena Vighnesh, 9/10/2025, 7:42 AM

Last Modified By: Makkena Vighnesh, 9/10/2025, 7:42 AM

Page > Record Detail

You can configure record detail sections and fields right inside the Lightning App Builder. Upgrade to Dynamic Forms, and start putting individual fields and sections anywhere on the page.

Upgrade Now

Record Detail content comes from page layouts.

See How It Works

Set fields in Page Layouts

Assign Page Layouts

Farming Order Layout (previewed)

Retail Order

Wholesale Order

3. Tabs

Setup

Home

Object Manager

tabs

User Interface

Rename Tabs and Labels

Tabs

Didn't find what you're looking for? Try using Global Search.

SETUP

Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs

New

What Is This?

Action	Label	Tab Style	Description
Edit Del	Buyer Requirements	Form	
Edit Del	Crop Listings	Apple	
Edit Del	Farming Orders	Hammer	
Edit Del	Feedbacks	Books	
Edit Del	Payments	Cell phone	
Edit Del	Shipments	Ship	

Web Tabs

New

What Is This?

4. LWC

Setup

Home

Object Manager

lightning.com

Custom Code

Lightning Components

Debug Mode

Lightning Components

Local Dev

Didn't find what you're looking for? Try using Global Search.

SETUP

Lightning Components

Lightning Components

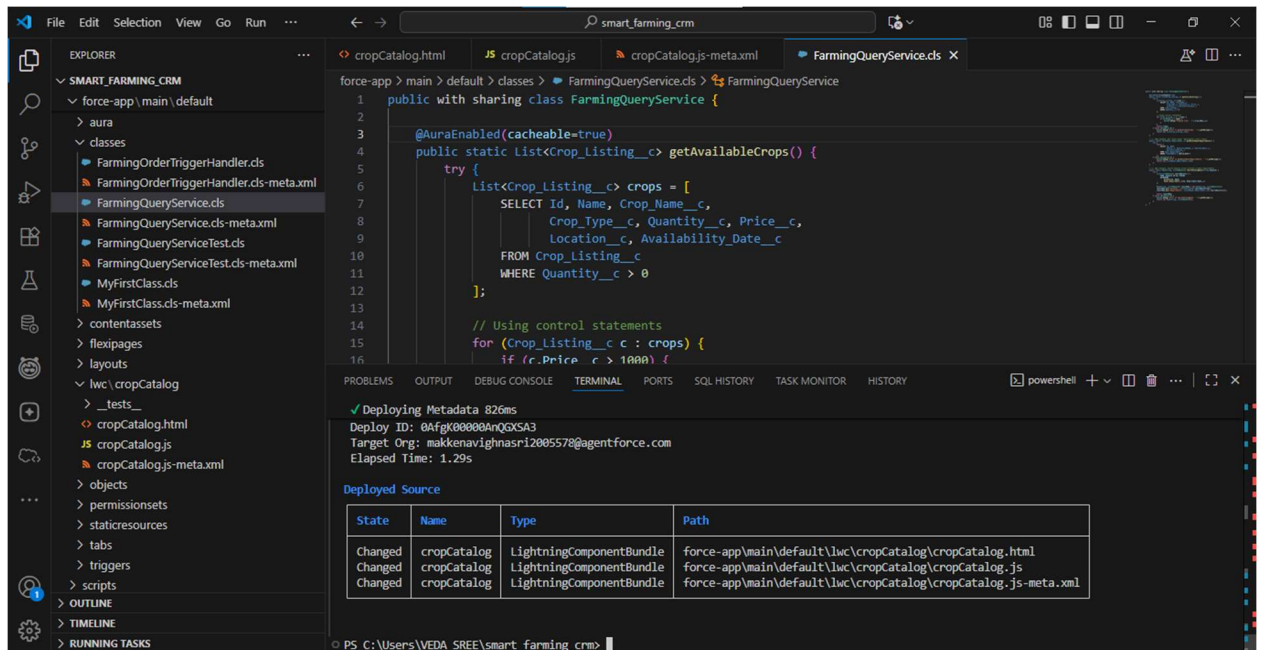
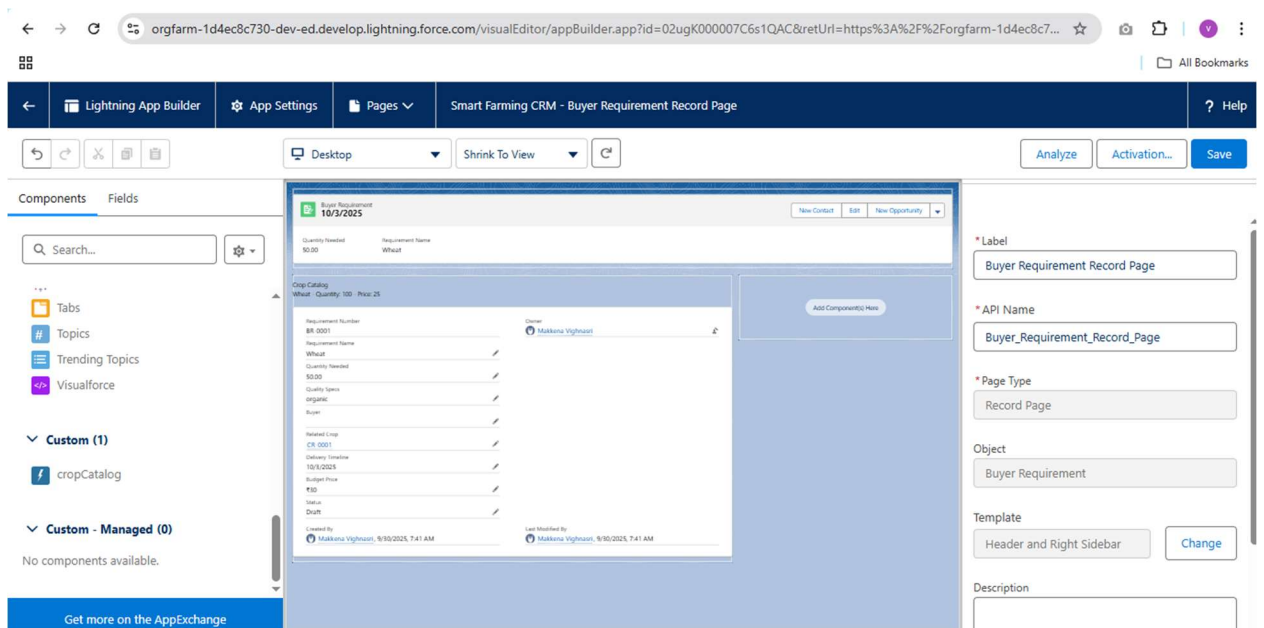
Help for this Page

A Lightning component is a compact, configurable, and reusable element. Use components to build apps and custom pages. The Lightning Component framework has two development models. Aura is the original model. Lightning Web Components (LWC) is the newer model. Develop Lightning web components using standard HTML, JavaScript, and CSS.

View: [All](#) [Create New View](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other [All](#)

Action	Name ↑	Label	Type	Namespace Prefix	Api Version
Del	cropCatalog	cropCatalog	LWC		59.0



5. Apex with LWC



force-app > main > default > lwc > cropCatalog > JS cropCatalog.js > ...

```
1 import { LightningElement, wire } from 'lwc';
2 import getAvailableCrops from '@salesforce/apex/FarmingQueryService.getAvailableCrops';
3
4 export default class CropCatalog extends LightningElement {
5   crops;
6   error;
7
8   @wire(getAvailableCrops)
9   wiredCrops({ error, data }) {
10     if (data) {
11       this.crops = data;
12       this.error = undefined;
13     } else if (error) {
14       this.error = error;
15       this.crops = undefined;
16     }
17   }
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL HISTORY TASK MONITOR HISTORY

✓ Deploying Metadata 826ms
Deploy ID: 0AfgK00000AnQXSA3
Target Org: makkenavighnasri2005570@agentforce.com
Elapsed Time: 1.29s

Deployed Source

State	Name	Type	Path
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.html
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js-meta.xml

6. Wire Adapters

force-app > main > default > lwc > cropCatalog > JS cropCatalog.js > ...

```
1 import { LightningElement, wire } from 'lwc';
2 import getAvailableCrops from '@salesforce/apex/FarmingQueryService.getAvailableCrops';
3
4 export default class CropCatalog extends LightningElement {
5   crops;
6   error;
7
8   @wire(getAvailableCrops)
9   wiredCrops({ error, data }) {
10     if (data) {
11       this.crops = data;
12       this.error = undefined;
13     } else if (error) {
14       this.error = error;
15       this.crops = undefined;
16     }
17   }
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL HISTORY TASK MONITOR HISTORY

✓ Deploying Metadata 826ms
Deploy ID: 0AfgK00000AnQXSA3
Target Org: makkenavighnasri2005570@agentforce.com
Elapsed Time: 1.29s

Deployed Source

State	Name	Type	Path
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.html
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js-meta.xml

force-app > main > default > lwc > cropCatalog > cropCatalog.js-meta.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
3   <apiVersion>59.0</apiVersion>
4   <isExposed>true</isExposed>
5   <targets>
6     <target>lightning__AppPage</target>
7     <target>lightning__RecordPage</target>
8     <target>lightning__HomePage</target>
9   </targets>
10 </LightningComponentBundle>
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL HISTORY TASK MONITOR HISTORY

✓ Deploying Metadata 826ms
Deploy ID: 0AfgK00000AnQXSA3
Target Org: makkenavighnasr12005578@agentforce.com
Elapsed Time: 1.29s

Deployed Source

State	Name	Type	Path
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.html
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js-meta.xml

7. Imperative Apex Class

force-app > main > default > classes > CropController.cls > ...

```
1 public with sharing class CropController {
2   @AuraEnabled
3   public static String placeOrder(String cropId, Integer quantity) {
4     // Your business logic here
5     return 'Order placed for ' + quantity + ' units of crop ' + cropId;
6   }
7 }
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL HISTORY TASK MONITOR HISTORY

✓ Deploying Metadata 826ms
Deploy ID: 0AfgK00000AnQXSA3
Target Org: makkenavighnasr12005578@agentforce.com
Elapsed Time: 1.29s

Deployed Source

State	Name	Type	Path
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.html
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js
Changed	cropCatalog	LightningComponentBundle	force-app\main\default\lwc\cropCatalog\cropCatalog.js-meta.xml