

Phase 1: Problem Understanding & Industry Analysis - AI Chef Project

Core Problem Definition

The AI Chef project addresses the critical challenge of leftover ingredient utilization and personalized recipe generation in modern households. With global food waste reaching 30-40% of all food produced, there is a significant opportunity to leverage AI technology to minimize waste while creating personalized culinary experiences.

Primary Problem Areas:

- Food Waste Crisis: Approximately 17% of total global food production is wasted, with 11% occurring
 at household level.
- **Decision Fatigue**: Home cooks struggle to create meals from available leftover ingredients like meat, dal, vegetables, and pantry staples.
- **Dietary Restriction Management**: Growing need for Al-powered solutions that accommodate specific dietary needs (gluten-free, vegan, keto, diabetic-friendly).
- **Meal Planning Inefficiency**: Lack of personalized, intelligent systems that consider serving size, meal type, and ingredient availability.

Industry Analysis & Market Landscape

Market Size & Growth Trajectory

The Al-powered culinary technology sector demonstrates robust growth potential:

- Al-Driven Meal Planning Apps: Market valued at USD 11.57 billion by 2034 with a CAGR of 28.10.
- Recipe App Market: Projected to reach USD 1.8 billion by 2033 with a CAGR of 17.5%.
- Al-Driven Recipe Creators: Market size of USD 3.5 billion in 2024, expanding to USD 10 billion by 2032 at 15% CAGR.
- Food Waste Management Apps: Expected to grow from USD 1.2 billion in 2024 to USD 5.7 billion by 2034 at 16.8% CAGR.

AI Culinary Technology Market Growth 2024-2034 Al-Driven Al-Driven **Meal Planning** Recipe App **Food Waste** Recipe Reee Market: **Creators:** Management Apps: Apps: \$11.57B by 2034 \$1.8B by 2033 \$10B by 2032 \$5.7B by 2034 28.10% CAGR 17.5% CAGR **15% CAGR** 16.8% CAGR

Key Market Drivers

Technology Integration Trends:

- Integration with wearables and health apps for holistic nutrition management.
- IoT-based smart kitchen integration for seamless cooking experiences.
- Real-time food recognition using computer vision technology.
- Multi-lingual voice interfaces for accessibility across diverse user bases.

Consumer Behavior Shifts:

- 80% increase in user engagement through personalized experiences.
- Growing demand for specialized dietary solutions (vegan, keto, gluten-free) .
- Rising health consciousness driving personalized nutrition demand.

Competitive Landscape Analysis

Existing Solutions

Leading AI Recipe Platforms:

- **FoodsGPT, DishGen, ChefGPT**: Focus on general recipe generation.
- **SuperCook**: Ingredient-based recipe suggestions.
- **RecipeRadar**: Search recipes by available ingredients.
- Samsung Food Plus: Vision AI recognizing 40,000 ingredients with cloud processing.

Unique Value Proposition for Salesforce AI Chef

Differentiating Features:

- 1. **Salesforce Agentforce Integration**: Leverage advanced prompt builder and Einstein Trust Layer for secure, personalized AI interactions.
- 2. **Enterprise-Grade Data Management**: Utilize Salesforce's robust CRM capabilities for user preference tracking and meal history analytics.
- 3. **Multi-Parameter Intelligence**: Advanced algorithm considering ingredients, dietary restrictions, serving size, and meal type simultaneously.
- 4. **Leftover-Centric Approach**: Specialized focus on transforming common leftovers (meat, dal, vegetables) into complete meals.
- 5. **Cultural Adaptation**: Built-in understanding of regional ingredients and cooking methods, particularly valuable for Indian cuisine integration.

Key Stakeholders & User Personas

Primary Stakeholders

End Users:

- **Health-Conscious Home Cooks**: Seeking personalized nutrition solutions.
- Busy Professionals: Requiring quick, efficient meal planning with available ingredients.
- Dietary-Restricted Individuals: Managing specific health conditions through AI-guided meal planning.
- **Sustainability-Focused Households**: Committed to reducing food waste through intelligent ingredient utilization.

Business Stakeholders:

- Food Retailers: Potential integration for inventory-based recipe suggestions.
- Nutritionists & Dietitians: Professional tools for client meal planning.
- Hospitality Industry: Restaurants managing dietary restrictions and menu optimization.

Business Model Opportunities

Revenue Streams:

- **Subscription Model**: Premium features for advanced personalization and unlimited recipe generation.
- Integration Services: B2B partnerships with grocery retailers and meal kit services.
- **Data Analytics**: Insights for food industry stakeholders on consumption patterns and waste reduction.
- Corporate Wellness: Employee health programs focusing on personalized nutrition.

Success Metrics & Project Goals

Quantifiable Objectives:

- **Food Waste Reduction**: Target 20-30% reduction in household ingredient waste based on industry benchmarks.
- User Engagement: Achieve 80% user retention through personalized experience.
- Recipe Success Rate: 85% user satisfaction with AI-generated recipes matching taste preferences.
- **Dietary Compliance**: 90% accuracy in accommodating specified dietary restrictions and serving sizes.

Technical Goals:

- Real-time ingredient recognition and processing.
- Sub-second recipe generation response times.
- Seamless integration with Salesforce ecosystem.
- Scalable architecture supporting 10,000+ concurrent users.

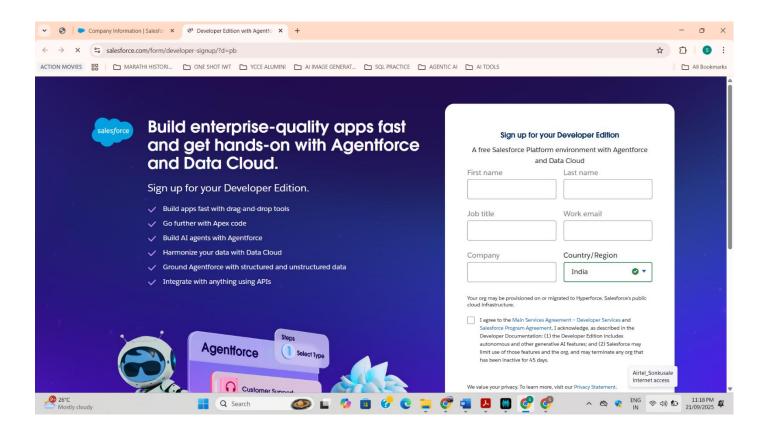
Phase 2: Org Setup & Configuration

Learning Objectives:

- Set up Salesforce Developer Edition effectively
- Configure healthcare-specific organizational settings
- Establish foundation for user management and security

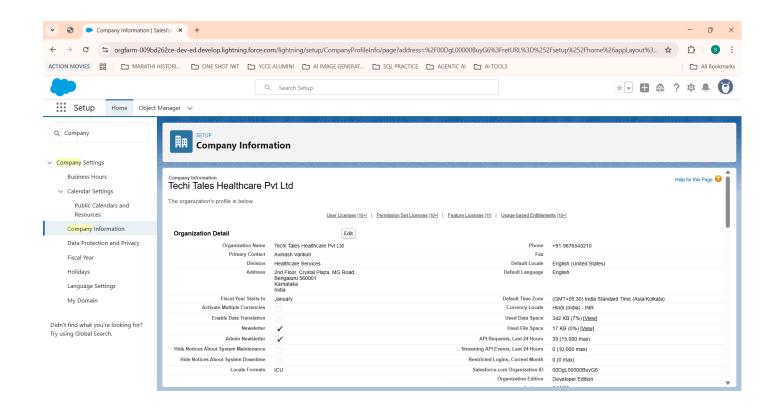
1. Salesforce Org Setup:

Create Developer Edition account and configure company profile.



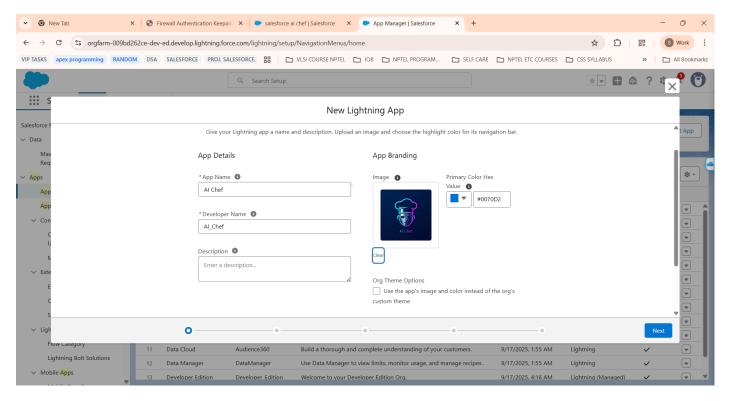
2. Company Profile Details

- Company Name: Techi Tales Healthcare Pvt Ltd
- Legal Name: Techi Tales Healthcare Private Limited
- Address: 2nd Floor, Crystal Plaza, MG Road, Bengaluru, Karnataka, India, 560001
- Default Currency: INR (Indian Rupee)
- **Time Zone:** (GMT+05:30) India Standard Time (Asia/Kolkata)
- **Phone:** +91-9876543210
- Primary Contact: Avinash Varikuti (Project Owner)
- Locale: English (India)
- Division: Healthcare Services



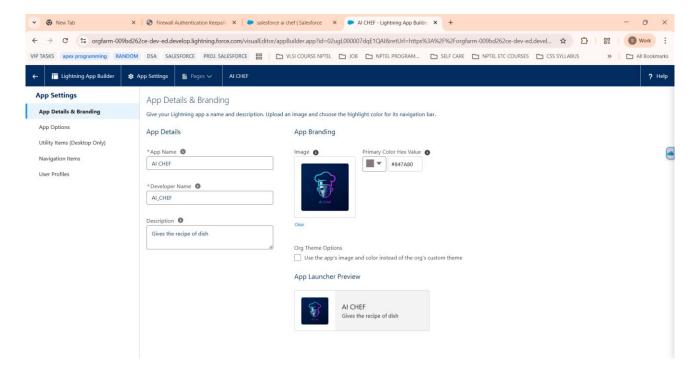
Phase 4: Process Automation (Admin)

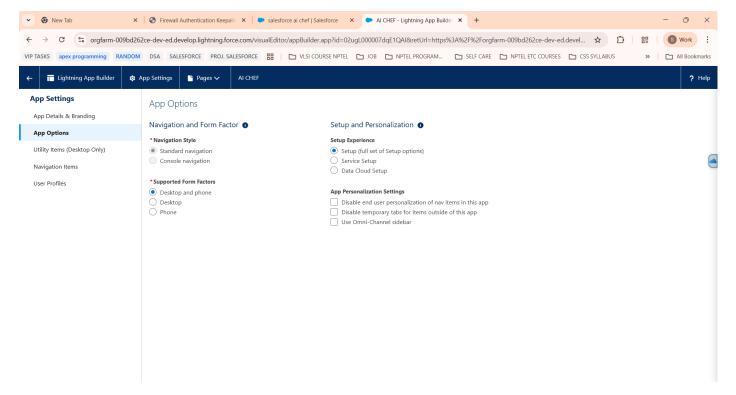
• Creating a new lighting app:



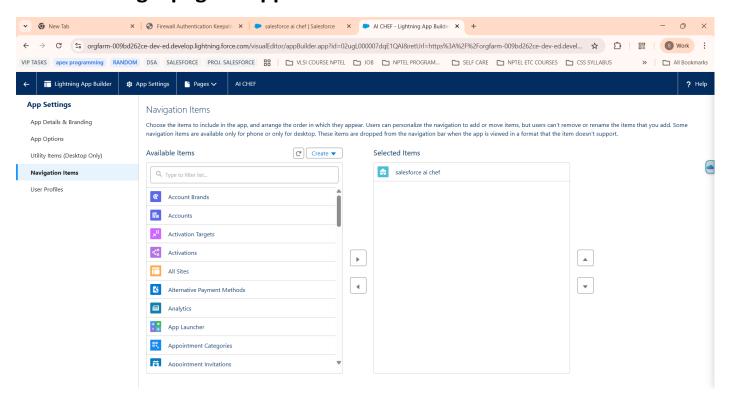
App Name: Al chef

Developer Name: Al_Chef

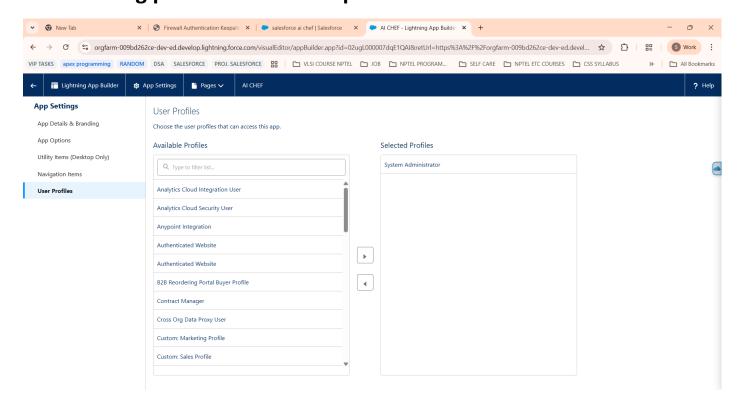




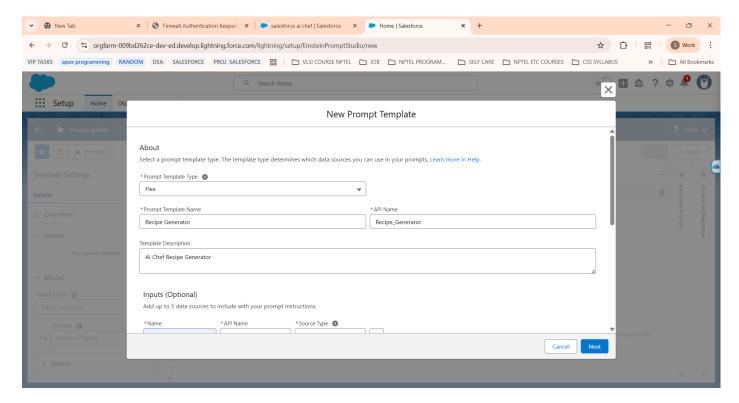
Adding a page in app



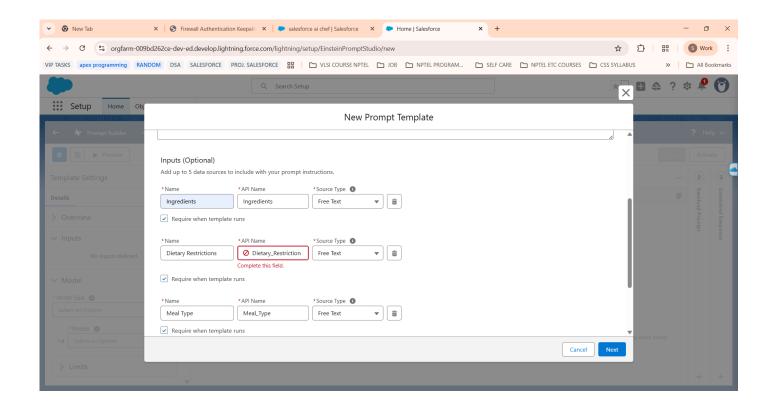
Giving permission to user profile

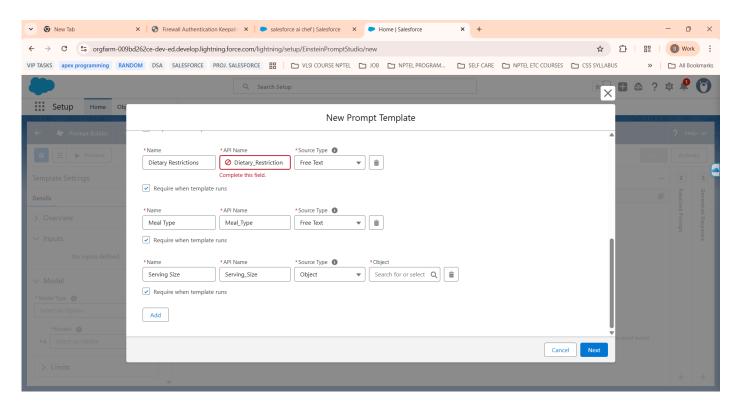


- Prompt Builder
- > Creating a prompt Template



- > Prompt Template Name: Recipe Generator
- > API Name: Recipe_Generator
- Inputs: Ingredients, Dietary Restrictions, Meal Type, Serving Size

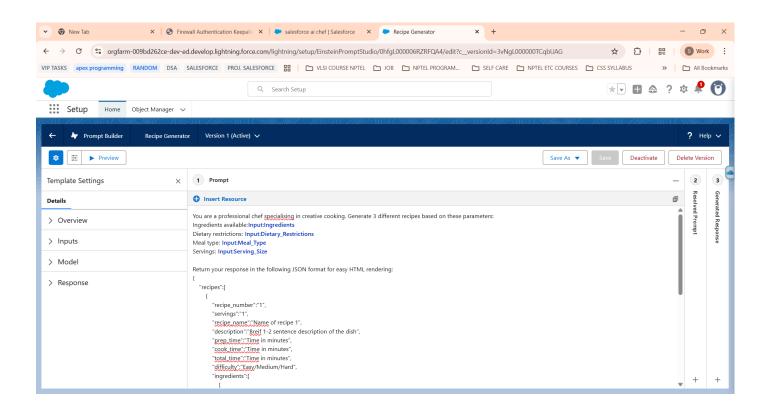




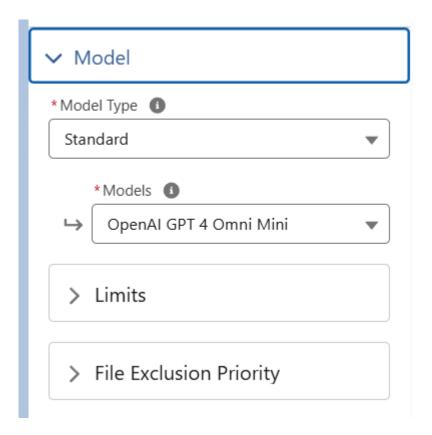
> Writing Prompt

Prompt:

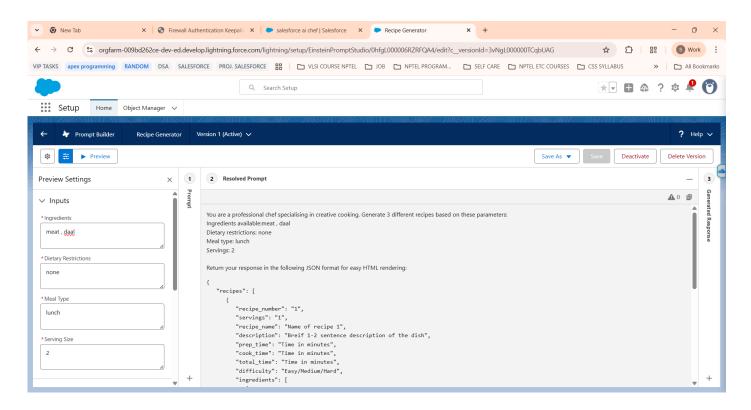
```
You are a professional chef specialising in creative cooking. Generate 3 different
recipes based on these parameters:
Ingredients available:{!$Input:Ingredients}
Dietary restrictions: {!$Input:Dietary Restrictions}
Meal type: {!$Input:Meal_Type}
Servings: {!$Input:Serving Size}
Return your response in the following JSON format for easy HTML rendering:
{
  "recipes":[
    {
      "recipe_number":"1",
      "servings":"1",
      "recipe name": "Name of recipe 1",
      "description": "Breif 1-2 sentence description of the dish",
      "prep_time":"Time in minutes",
      "cook_time":"Time in minutes",
      "total time": "Time in minutes",
      "difficulty": "Easy/Medium/Hard",
      "ingredients":[
         {
           "amount":"quantity",
           "unit": "measuring unit",
           "name":"ingredient name"
        },
         {
           "amount":"quantity",
```



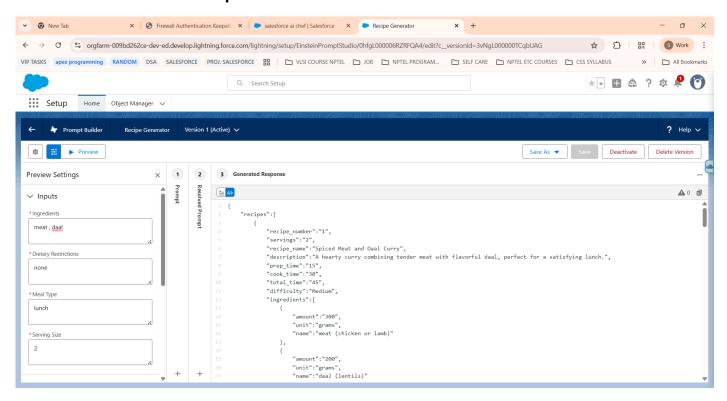
Model Selection



Resolved Prompt:



Generated Response:



Phase 5: Apex Programming (Developer)

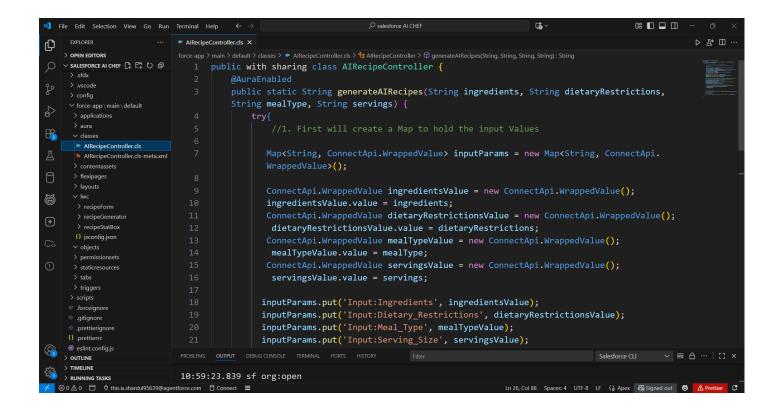
• Creating a Apex Class:

Apex class name: Al Recipe Controller

Writing Program in LWC

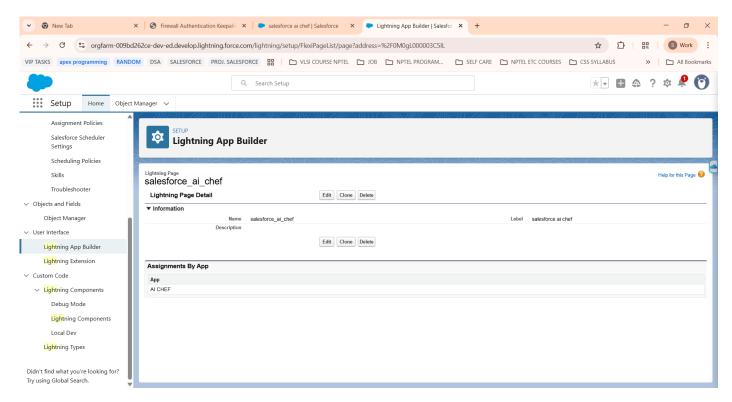
```
public with sharing class AIRecipeController {
    @AuraEnabled
    public static String generateAIRecipes(String ingredients,
String dietaryRestrictions, String mealType, String servings) {
        try{
            //1. First will create a Map to hold the input
Values
           Map<String, ConnectApi.WrappedValue> inputParams =
new Map<String, ConnectApi.WrappedValue>();
           ConnectApi.WrappedValue ingredientsValue = new
ConnectApi.WrappedValue();
           ingredientsValue.value = ingredients;
           ConnectApi.WrappedValue dietaryRestrictionsValue =
new ConnectApi.WrappedValue();
            dietaryRestrictionsValue.value =
dietaryRestrictions;
           ConnectApi.WrappedValue mealTypeValue = new
ConnectApi.WrappedValue();
            mealTypeValue.value = mealType;
           ConnectApi.WrappedValue servingsValue = new
ConnectApi.WrappedValue();
            servingsValue.value = servings;
          inputParams.put('Input:Ingredients',
ingredientsValue);
          inputParams.put('Input:Dietary Restrictions',
dietaryRestrictionsValue);
          inputParams.put('Input:Meal Type', mealTypeValue);
          inputParams.put('Input:Serving Size', servingsValue);
```

```
//2. Will create the configuration which is required
for invoking the prompt template
          ConnectApi.EinsteinPromptTemplateGenerationsInput
executeTemplateInput = new
ConnectApi.EinsteinPromptTemplateGenerationsInput();
          executeTemplateInput.additionalConfig = new
ConnectApi.EinsteinLlmAdditionalConfigInput();
          executeTemplateInput.additionalConfig.applicationName
= 'PromptBuilderPreview';
          executeTemplateInput.isPreview = false;
          executeTemplateInput.inputParams = inputParams;
          //3. Invoke the EinsteinLLM APi and execute the
prompt template
           ConnectApi.EinsteinPromptTemplateGenerationsRepresen
tation generationsOutput =
ConnectApi.EinsteinLLM.generateMessagesForPromptTemplate(
            'Recipe Generator',
            executeTemplateInput
          );
          //4. return the response
         ConnectApi.EinsteinLLMGenerationItemOutput response=
generationsOutput.generations[0];
         return response.text;
        }catch(Exception e){
             throw new AuraHandledException('Error generating
recipes: ' + e.getMessage());
```



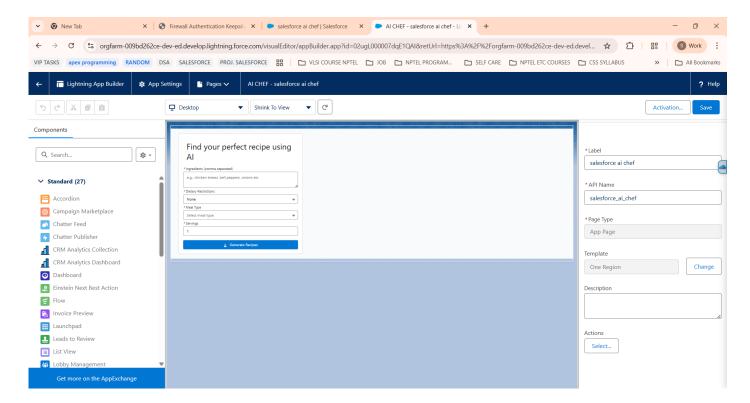
Phase 6: User Interface Development

• Lightning App Builder



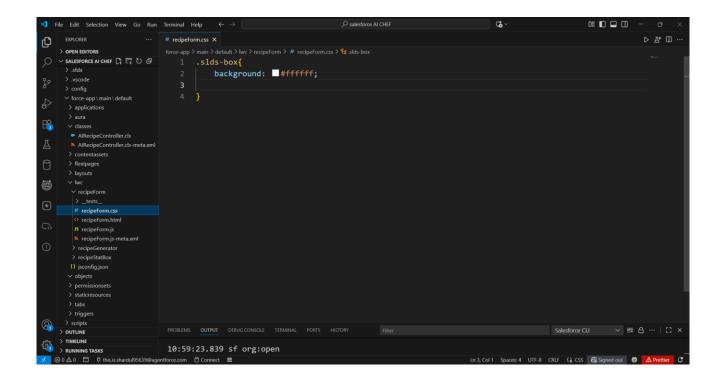
Name: salesforce ai chef

Assignments By App: Al CHEF



- Codes of Custom LWC
- Recipe Form
 <u>css code of recipe Form</u>

```
.slds-box{
   background: #ffffff;
}
```



HTML Code for recipe form

```
<lightning-combobox</pre>
    label="Dietary Restrictions"
    placeholder="Select restriction"
    name="dietaryRestrictions"
    required
    value={formData.dietaryRestrictions}
     options={dietaryOptions}
     onchange={handleChange}
></lightning-combobox>
<lightning-combobox</pre>
    label="Meal Type"
    placeholder="Select meal type"
    name="mealType"
    required
    value={formData.mealType}
    options={mealTypeOptions}
    onchange={handleChange}
></lightning-combobox>
<lightning-input</pre>
    type="number"
    label="Servings"
    name="servings"
    required
    value ={formData.servings}
    onchange={handleChange}>
</lightning-input>
<div class="slds-m-top medium">
<lightning-button</pre>
    label="Generate Recipes"
    variant="brand"
    icon-name="utility:recipe"
    stretch
    onclick={generateRecipes}
></lightning-button>
</div>
```

```
</form>
</template>
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      > applications
                                                 name="ingredients'
                                                 onchange={handleChange}></lightning-textarea>
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                                             dightning-combobox
      > contentassets
                                                 label="Dietary Restrictions"
0
      > flexipages
                                                 placeholder="Select restriction"
                                                 name="dietaryRestrictions"
3
      ∨ recipeForm
                                                 required
                                                 value={formData.dietaryRestrictions}
                                                options={dietaryOptions}
                                                  onchange={handleChange}
      > recipeGenerator
                                                 label="Meal Type"

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                                                 placeholder="Select meal type"
                                                 name="mealType"
      > tabs
                                                 required
      > triggers
                                                 value={formData.mealType}
    > OUTLINE
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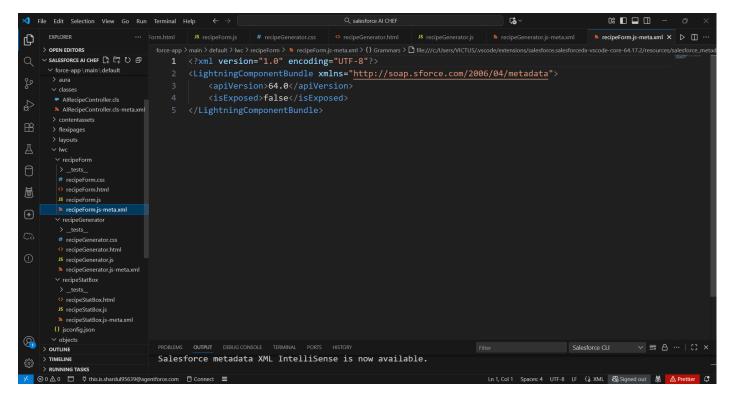
JS code for recipe form

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                                  1 import { LightningElement } from 'lwc';
     > .sfdx
                                  3 export default class RecipeForm extends LightningElement {
                                          formData = {
                                              ingredients: '',
B

√ classes

                                               dietaryRestrictions: 'none',
                                              servings: 1,
                                               mealType: '
      > contentassets
0
dietaryOptions = [
                                           { label: 'None', value: 'none'},
{ label: 'Vegan', value: 'vegan'},
       # recipeForm.css
                                               { label: 'Vegetarian', value: 'vegetarian'},
       necipeForm.is-meta.xml
                                               { label: 'Gluten Free', value: 'gluten free'},
       > recipeGenerator
                                               { label: 'Dairy Free', value: 'dairy free'},
                                          mealTypeOptions = [
      > staticresources
                                               { label: 'Breakfast', value: 'breakfast'},
      > tabs
                                               { label: 'Lunch', value: 'lunch'},
                               PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS HISTORY Filter
                                                                                                                               Salesforce CLI
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    > RUNNING TASKS
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```

```
import { LightningElement } from 'lwc';
export default class RecipeForm extends LightningElement {
    formData = {
        ingredients: '',
        dietaryRestrictions: 'none',
        servings: 1,
        mealType:
    }
    dietaryOptions = [
        { label: 'None', value: 'none'},
        { label: 'Vegan', value: 'vegan'},
        { label: 'Vegetarian', value: 'vegetarian'},
        { label: 'Gluten Free', value: 'gluten free'},
        { label: 'Dairy Free', value: 'dairy free'},
    ]
    mealTypeOptions = [
        { label: 'Breakfast', value: 'breakfast'},
        { label: 'Lunch', value: 'lunch'},
        { label: 'Dinner', value: 'dinner'},
        { label: 'Appetizer', value: 'appetizer'},
    handleChange(event){
        const {name, value} = event.target
        this.formData[name] = value
    }
    generateRecipes(){
        this.dispatchEvent(new CustomEvent('generate',{
            detail: {
                formData: this.formData
            }
       }))
```



> Recipe Generator

CSS for Recipe Generator

```
.app-container{
    background: #f9fafb;
}
.slds-box{
    background: #ffffff;
}
.tips{
    background: #f9fafb;
    padding: 12px;
    border-radius: 5px;
    box-shadow: 1px 1px 5px #cdcdcd;
}
```

```
# recipeGenerator.css X
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    > OPEN EDITORS
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                                     .app-container{
                                         background: ■#f9fafb;
                                    .slds-box{
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                                         background: ■#ffffff;
B
                                     .tips{
      AIRecipeController.cls
                                         background: ■#f9fafb;
                                         padding: 12px;
0
      > flexipages
                                         border-radius: 5px;
      > layouts
                                         box-shadow: 1px 1px 5px ■#cdcdcd;
> recipeForm

∨ recipeGenerator

        recipeGenerator.html
       > recipeStatBox
      > permissionsets
      > triggers
                              PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS HISTORY
                                                                                                                                           > OUTLINE
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    > TIMELINE
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```

HTML Code For Recipe Generator

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   × SALESFORCE AI CHEF [1 □ □ 0 □
     > .sfdx
                                     <div class="slds-p-around_medium app-container">
                                         dightning-layout multiple-row="true"
                                             dightning-layout-item size="12" medium-device-size="4" padding="horizontal-small">
                                                 <c-recipe-form ongenerate={generateRecipes}></c-recipe-form>
                                                  <template lwc:if={error}>

∨ classes

                                                 <div class="slds-notify slds-notify_alert slds-alert_error" role="alert">
                             8
                                                     <h2>{error}</h2>
0
     > flexipages
                                              </lightning-layout-item>
dightning-layout-item size="12" medium-device-size="8" padding="horizontal-small">
      > recipeForm
                                                <template for:each={recipes} for:item="recipe">
                                                      <div key={recipe_recipe_name} class="slds-box slds-m-bottom_medium">
      # recipeGenerator.css
                                                         <h2 class="slds-text-heading_large">{recipe.recipe_name}</h2>
                                                          {recipe.description}
      JS recipeGenerator.js
      necipeGenerator.js-meta.xml
                                                             lightning-badge key={tag} label={tag} class="slds-badge_inverse"
                                                              slds-m-vertical_medium"></lightning-badge>

∨ objects

                                                          dightning-layout vertical-align="center" multiple-rows="true">
     > tabs
                                                             dightning-layout-item size="3" padding="around-small">
   > OUTLINE
                           10:59:23.839 sf org:open
                                                                                             Ln 8, Col 37 Spaces: 4 UTF-8 LF () HTML  Signed out
```

```
dightning-layout-item size="12" medium-device-
size="4" padding="horizontal-small">
                 <c-recipe-form
ongenerate={generateRecipes}></c-recipe-form>
                 <template lwc:if={error}>
                 <div class="slds-notify slds-notify alert slds-</pre>
alert_error" role="alert">
                     \langle h2 \rangle \{error\} \langle /h2 \rangle
                 </div>
                 </template>
             </lightning-layout-item>
             dightning-layout-item size="12" medium-device-
size="8" padding="horizontal-small">
                <template for:each={recipes} for:item="recipe">
                     <div key={recipe.recipe name} class="slds-</pre>
box slds-m-bottom medium">
                         <h2 class="slds-text-
heading_large">{recipe.recipe_name}</h2>
                         vertical small">{recipe.description}
                         <template for:each={recipe.tags}</pre>
for:item="tag">
                             dightning-badge key={tag}
label={tag} class="slds-badge inverse slds-m-
vertical medium"></lightning-badge>
                         </template>
                         <!--Recipe Stat Box-->
                         dightning-layout vertical-
align="center" multiple-rows="true">
                              <lightning-layout-item</pre>
            padding="around-small">
size="3"
                                  <c-recipe-stat-box title="Prep</pre>
Time" value={recipe.prep_time} icon-name="utility:clock"></c-</pre>
recipe-stat-box>
                              </lightning-layout-item>
                              <lightning-layout-item</pre>
size="3"
            padding="around-small">
```

```
<c-recipe-stat-box title="Cook</pre>
Time" value={recipe.cook time} icon-
name="utility:real time"></c-recipe-stat-box>
                             </lightning-layout-item>
                             <lightning-layout-item</pre>
size="3"
            padding="around-small">
                                 <c-recipe-stat-box
title="Difficulty" value={recipe.difficulty} icon-
name="utility:data model"></c-recipe-stat-box>
                             </lightning-layout-item>
                             <lightning-layout-item</pre>
            padding="around-small">
size="3"
                                 <c-recipe-stat-box
title="Servings" value={recipe.servings} icon-
name="utility:user"></c-recipe-stat-box>
                             </lightning-layout-item>
                        </lightning-layout>
                        <!--Instructions and ingredients-->
                        dightning-layout multiple-rows="true">
                             <lightning-layout-item</pre>
            padding="around-small">
size="5"
                                 <h3 class="slds-text-
heading small slds-p-bottom small slds-
border bottom">Ingredients</h3>
                                 <template</pre>
for:each={recipe.ingredients} for:item="ingredient">
key={ingredient.name} class="slds-p-vertical x-small">
                                             <div class="slds-
grid">
                                                 <div
class="slds-col slds-size 2-of-4">
                                                     <strong>{in
gredient.amount} {ingredient.unit}</strong>
                                                 </div>
                                                 <div
class="slds-col slds-size 2-of-4">
```

```
{ingredient
.name}
                                             </div>
                                         </div>
                                     </template>
                              </lightning-layout-item>
                          <lightning-layout-item</pre>
           padding="around-small">
size="7"
                              <h3 class="slds-text-
heading small slds-p-bottom small slds-
border bottom">Instructions</h3>
                             <template
for:each={recipe.instructions} for:item="instruction">
                                     class="slds-p-vertical x-small">
                                         {instruction}
                                     </template>
                              </lightning-layout-item>
                      </lightning-layout>
                      <!--Chef Tip-->
                      <div class="tips">
                          <div class="slds-grid">
                             <lightning-icon icon-</pre>
name="utility:light_bulb" size="small"></lightning-icon>
                             <h3 class="slds-text-
heading small"> Chef's Tips</h3>
                          </div>
                          {recipe.tips}
                      </div>
```

JS Code for Recipe Generator

```
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   > OPEN EDITORS
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                                1 import { LightningElement } from 'lwc';
                                   import generateAIRecipes from '@salesforce/apex/AIRecipeController.generateAIRecipes';
                                3 export default class RecipeGenerator extends LightningElement {
     > config
                                       formData = {}
                                       recipes = []
                                       isGenerating = false
B
                                       error = '
                                      async generateRecipes(event){
0
                                            this.error =
                                            this.formData = event.detail.formData

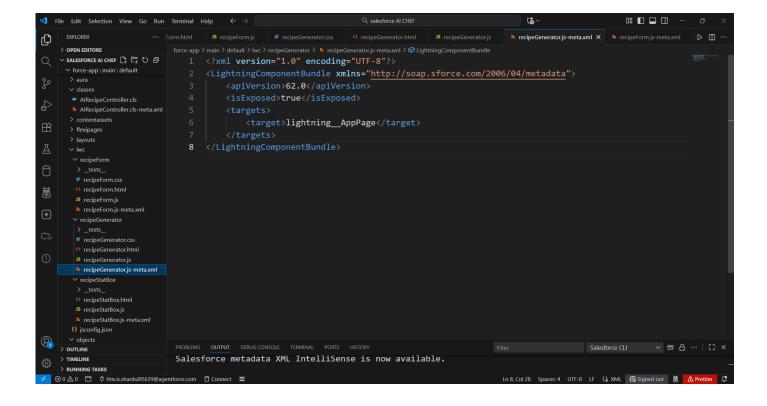
∨ recipeGenerator

                                            console.log("this.formData", JSON.stringify(this.formData))
                                            if(!this.formData?.ingredients){
                                                this.error = 'Please enter ingredients'
      > recipeStatBox
                                            if(!this.formData?.mealType){
                                                this.error = 'Please select a meal type'
     > triggers
                             PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS HISTORY
                                                                                                                                      ∨ ≣ A ... | [] ×
                                                                                                                        Salesforce CLI
    > TIMELINE
                             10:59:23.839 sf org:open
                                                                                                   Ln 8, Col 1 Spaces: 4 UTF-8 LF {} JavaScript € Signed out 🛎 🛕 Prettier
```

```
import { LightningElement } from 'lwc';
import generateAIRecipes from
'@salesforce/apex/AIRecipeController.generateAIRecipes';
export default class RecipeGenerator extends LightningElement {
    formData = {}
    recipes = []
```

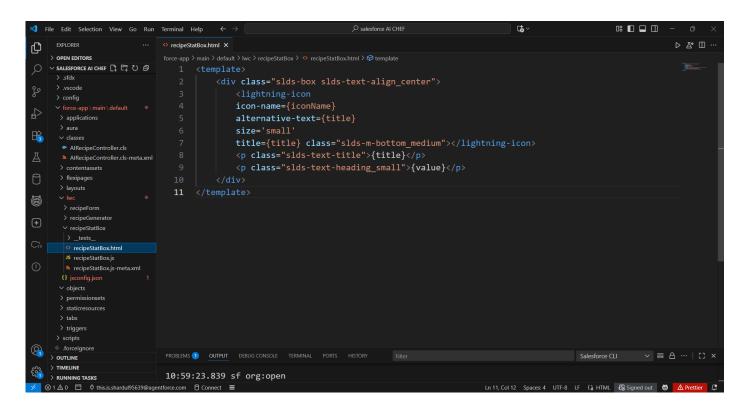
```
isGenerating = false
    error = ''
    async generateRecipes(event){
        this.error = ''
        this.formData = event.detail.formData
        console.log("this.formData", JSON.stringify(this.formDat
a))
        if(!this.formData?.ingredients){
            this.error = 'Please enter ingredients'
            return
        }
        if(!this.formData?.mealType){
            this.error = 'Please select a meal type'
            return
        this.isGenerating = true
        try{
            const result = await generateAIRecipes({
                ingredients:this.formData.ingredients,
                dietaryRestrictions:this.formData.dietaryRestri
ctions,
                mealType:this.formData.mealType,
                servings:this.formData.servings
            })
            console.log("result", result)
            this.formatResponse(result)
        }catch(error){
            console.log("Error generating recipes: ",error)
            this.error = error.body?.message | error.message
| an unknown error occured;
        } finally{
            this.isGenerating = false
```

```
}
    formatResponse(result)
        const correctJson = result.replaceAll(/[\n\u00A0]/g,
'').trim()
        const parsedResponse = JSON.parse(correctJson)
        if(parsedResponse?.recipes?.length>0){
            this.recipes = parsedResponse.recipes.map(recipe=>{
                if(!recipe.tags){
                    recipe.tags = []
                }
                if(!recipe.total_time){
                    const prepTime = parseInt(recipe.prep_time)
|| 0;
                    const cookTime = parseInt(recipe.cook) ||
0;
                    recipe.total_time = `${prepTime + cookTime}
min`
                return recipe
            })
        } else {
            this.error = 'no recipes found. please try again
with different inputs.'
            this.recipes = []
    }
```



Recipe Stat Box

> Html code for Recipe Stat Box



JS Code For Recipe Stat Box

