Micro LWC Component how to create email survey form.

After Signing up for a developer edition org, start with milestone 1 that is creating an Apex class to handle the logic for sending emails. This class will be used by the LWC to trigger the email sending process.

What you'll learn

1.Building LWC component

2. Survey and Feedback tracking.

Milestone 1: Build Survey Form Lightning App

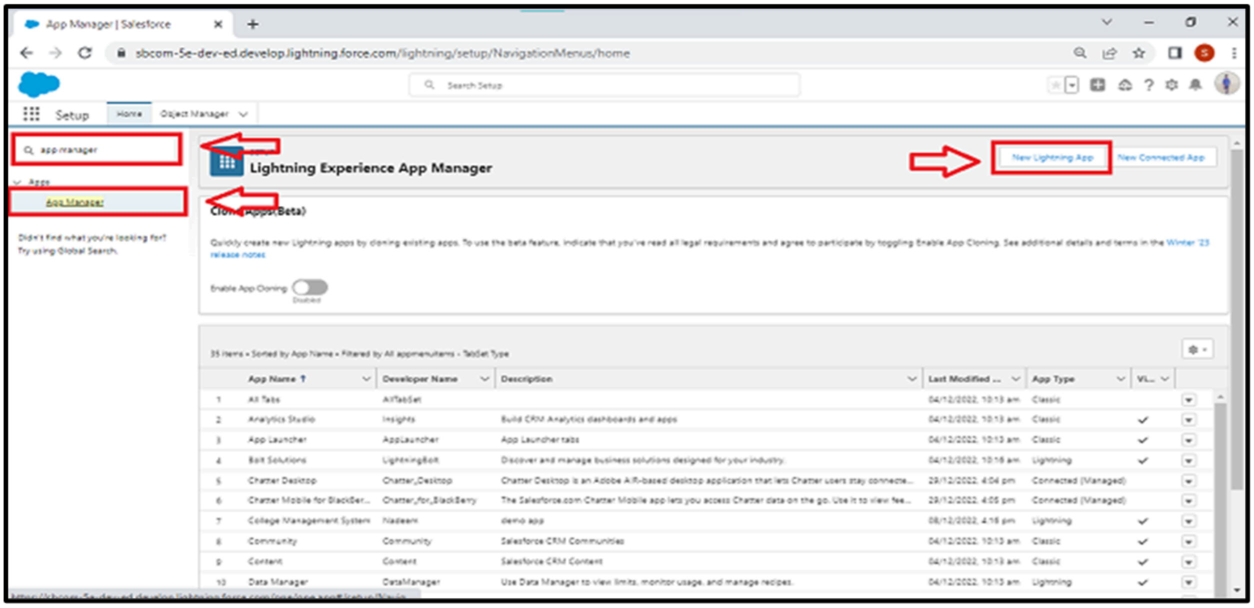
The app is built in Lightning Experience , depending on your organization's preferences and requirements. Below is a brief overview of how you might design such an app :

- Design a Lightning App using the Lightning App Builder.
- Include tabs for the required Custom Objects.
- Customize the app's color scheme and logo to give it a branded look.

Activity -1

Create the Lightning App

1.Go to the Gear Icon → Click on setup → click on the Home Button → Go to the quick find box and select the App Manager



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

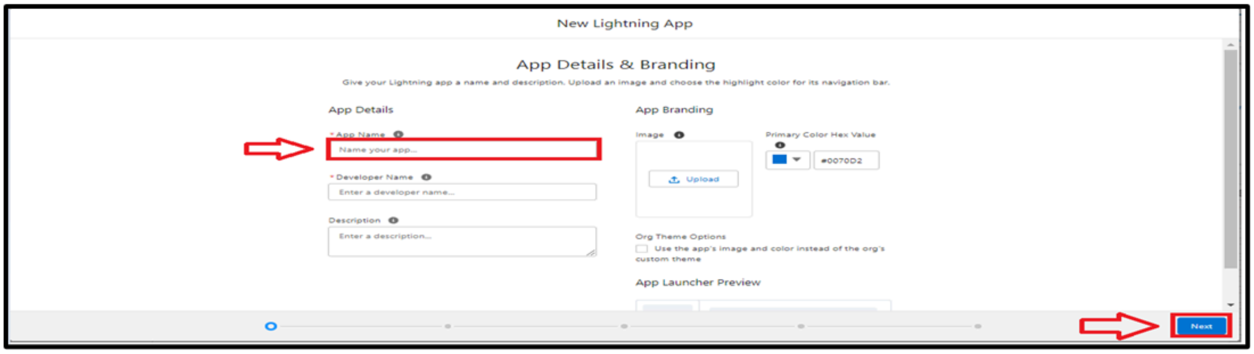
Quickly create new Lightning apps by cloning existing apps. To use the beta feature, indicate that you've read all legal requirements and agree to participate by toggling Enable App Cloning. See additional details and terms in the Winter '23 release notes

35 items • Sorted by App Name • Filtered by All appmenuitems - TabSet Type

	App Name ↑	Developer Name	Description	Last Modified ...	App Type	Vi...
1	All Tabs	AllTabSet		04/12/2022, 10:13 am	Classic	
2	Analytics Studio	Insights	Build CRM Analytics dashboards and apps	04/12/2022, 10:13 am	Classic	✓
3	App Launcher	AppLauncher	App Launcher tabs	04/12/2022, 10:13 am	Classic	✓
4	Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	04/12/2022, 10:16 am	Lightning	✓
5	Chatter Desktop	Chatter_Desktop	Chatter Desktop is an Adobe AIR-based desktop application that lets Chatter users stay connecte...	29/12/2022, 4:04 pm	Connected (Managed)	
6	Chatter Mobile for BlackBer...	Chatter_for_BlackBerry	The Salesforce.com Chatter Mobile app lets you access Chatter data on the go. Use it to view fee...	29/12/2022, 4:05 pm	Connected (Managed)	
7	College Management System	Nadeem	demo app	08/12/2022, 4:16 pm	Lightning	✓
8	Community	Community	Salesforce CRM Communities	04/12/2022, 10:13 am	Classic	✓
9	Content	Content	Salesforce CRM Content	04/12/2022, 10:13 am	Classic	✓
10	Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	04/12/2022, 10:13 am	Lightning	✓

2.Fill the app name as an in app details and branding →Next → (App option page) keep it as default → Next

3. Utility Items keep it as default → Next → (Add Navigation Items)(add custom tabs if needed) → Next → (Add User Profile) Add System Administrator, Salesforce platform user, Standard User → Next.



New Lightning App

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

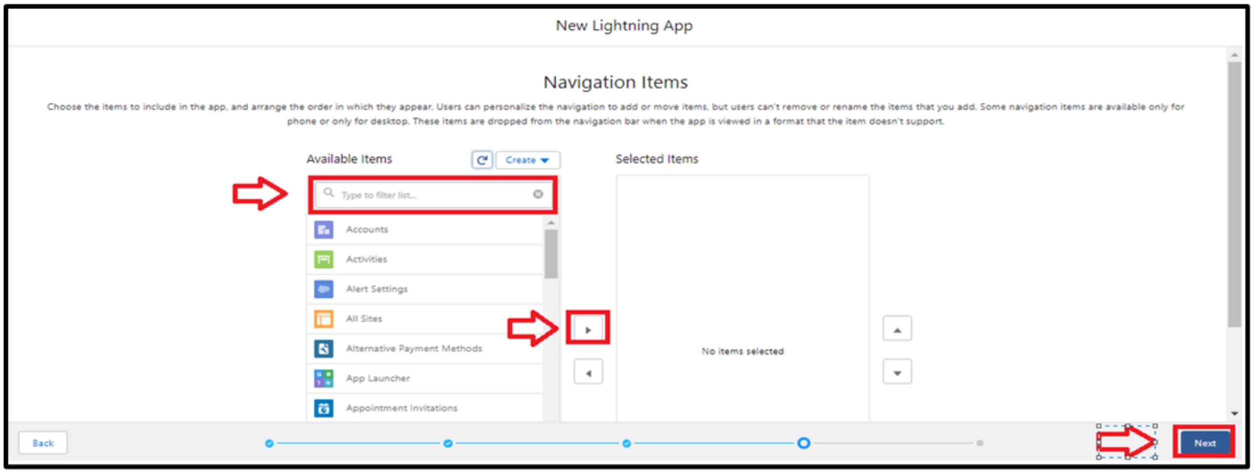
- * App Name: Name your app...
- * Developer Name: Enter a developer name...
- Description: Enter a description...

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

4. To Add Navigation Items:
Select the items from the search bar and move it using the arrow button → Next.
select all the tabs which you have created

5. To Add User Profiles:
Search profiles in search bar → click on the arrow button & select Standard user, standard Platform user & System Admin Profile→ save & finish.



New Lightning App

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

- Type to filter list...
- Accounts
- Activities
- Alert Settings
- All Sites
- Alternative Payment Methods
- App Launcher
- Appointment Invitations

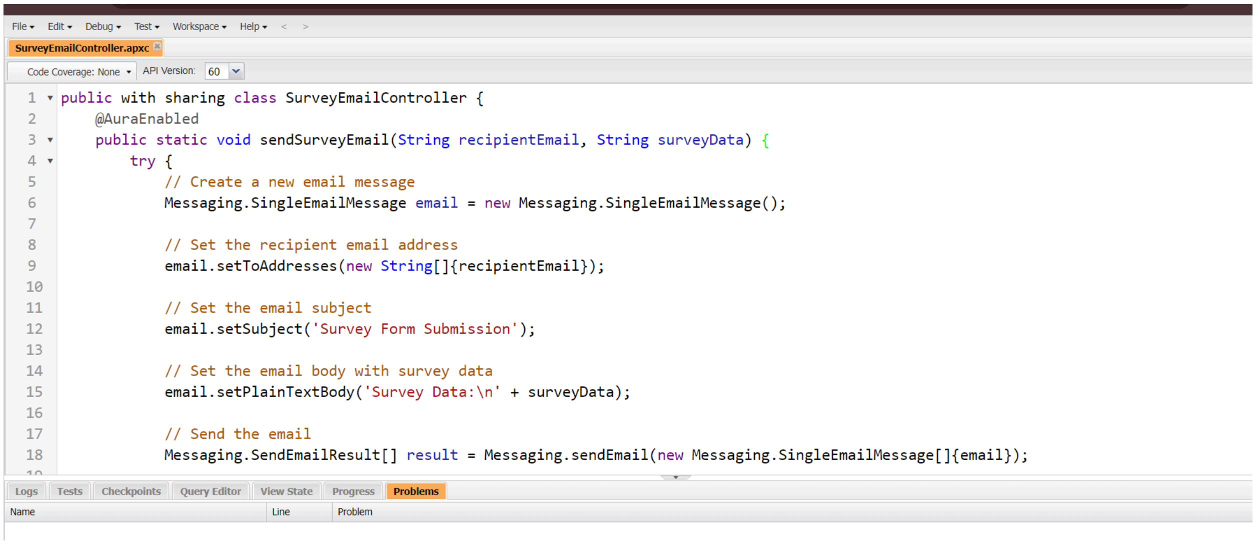
Selected Items

No items selected

Milestone 2: SurveyEmailController Class

Activity- 1

Defining the logic for automating actions based on Apex class to handle the email notifications on the survey. It includes methods for sending notifications for these stages.



```
public with sharing class SurveyEmailController {
    @AuraEnabled
    public static void sendSurveyEmail(String recipientEmail, String surveyData) {
        try {
            // Create a new email message
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();

            // Set the recipient email address
            email.setToAddresses(new String[]{recipientEmail});

            // Set the email subject
            email.setSubject('Survey Form Submission');

            // Set the email body with survey data
            email.setPlainTextBody('Survey Data:\n' + surveyData);

            // Send the email
            Messaging.SendEmailResult[] result = Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});
```

Apex Class :

```
public with sharing class SurveyEmailController {

 @AuraEnabled

 public static void sendSurveyEmail(String recipientEmail, String surveyData) {

     try {

         // Create a new email message

         Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();



         // Set the recipient email address

         email.setToAddresses(new String[]{recipientEmail});



         // Set the email subject
```

```
            email.setSubject('Survey Form Submission');


            // Set the email body with survey data
            email.setPlainTextBody('Survey Data:\n' + surveyData);


            // Send the email
            Messaging.SendEmailResult[] result = Messaging.sendEmail(new
Messaging.SingleEmailMessage[]{email});


            // Check the result of the email sending operation
            if (result[0].success) {
                System.debug('Email sent successfully');
            } else {
                System.debug('Error sending email: ' + result[0].errors[0].message);
                throw new AuraHandledException('Error sending email: ' +
result[0].errors[0].message);
            }
        } catch (Exception e) {
            // Handle exceptions and provide appropriate error handling
            System.debug('Error sending email: ' + e.getMessage());
            throw new AuraHandledException('Error sending email: ' + e.getMessage());
        }
```

```
    }

}
```

Milestone 3 : SurveyForm LWC component

Activity- 1

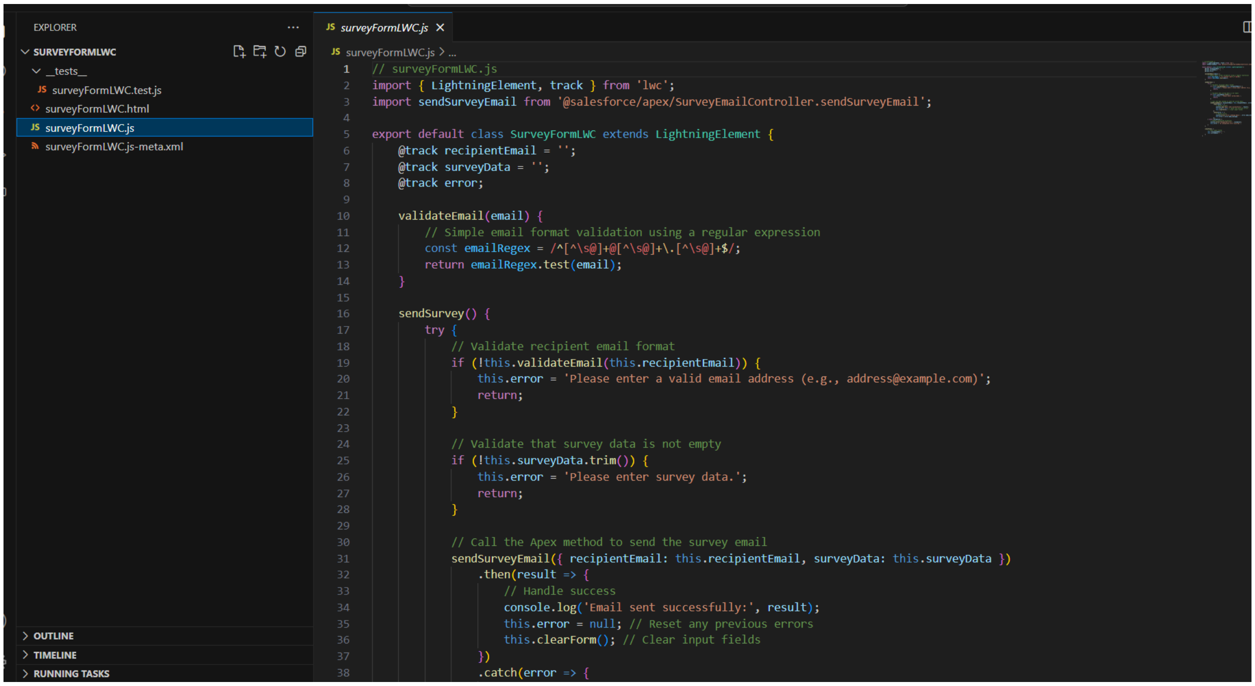
Open a Workspace:
Open Visual Studio Code and create a new workspace or open an existing one. A workspace is a directory that contains your Salesforce projects.

Create a New Salesforce Project:
Open the Command Palette (Ctrl + Shift + P) and run the command "SFDX: Create Project".
Choose the project type.
For LWC development, choose "Standard" for most cases.

Authorize an Org:
Open the Command Palette and run the command "SFDX: Authorize an Org".
Log in to your Salesforce org.

Create a New Lightning Web Component:
Open the Command Palette and run the command "SFDX: Create Lightning Web Component".
Enter a name for your component (Login) and choose the directory to save it.

Edit Your Lightning Web Component:
Open the newly created component in the force-app/main/default/lwc directory.
Edit the HTML, JavaScript, and CSS files as needed.

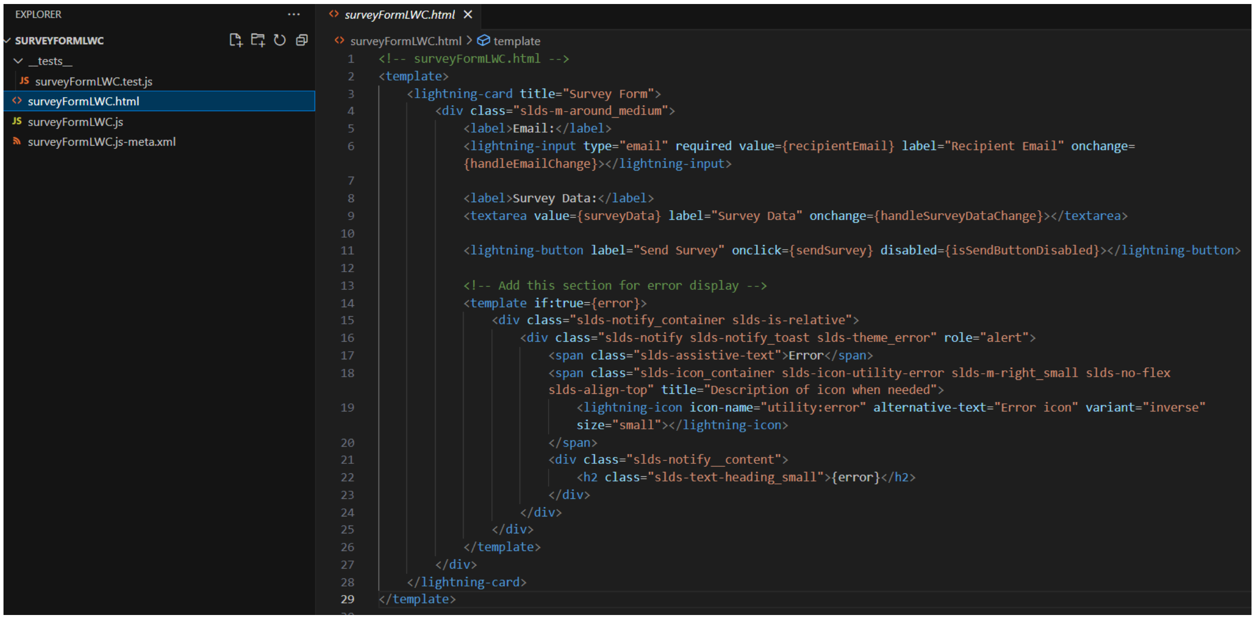


```javascript
// surveyFormLWC.js
import { LightningElement, track } from 'lwc';
import sendSurveyEmail from '@salesforce/apex/SurveyEmailController.sendSurveyEmail';

export default class SurveyFormLWC extends LightningElement {
    @track recipientEmail = '';
    @track surveyData = '';
    @track error;

    validateEmail(email) {
        // Simple email format validation using a regular expression
        const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        return emailRegex.test(email);
    }

    sendSurvey() {
        try {
            // Validate recipient email format
            if (!this.validateEmail(this.recipientEmail)) {
                this.error = 'Please enter a valid email address (e.g., address@example.com)';
                return;
            }

            // Validate that survey data is not empty
            if (!this.surveyData.trim()) {
                this.error = 'Please enter survey data.';
                return;
            }

            // Call the Apex method to send the survey email
            sendSurveyEmail({ recipientEmail: this.recipientEmail, surveyData: this.surveyData })
                .then(result => {
                    // Handle success
                    console.log('Email sent successfully:', result);
                    this.error = null; // Reset any previous errors
                    this.clearForm(); // Clear input fields
                })
                .catch(error => {
```

SurveyFormLWC (JavaScript) code:

```javascript
// surveyFormLWC.js
import { LightningElement, track } from 'lwc';
import sendSurveyEmail from
'@salesforce/apex/SurveyEmailController.sendSurveyEmail';

export default class SurveyFormLWC extends LightningElement {
  @track recipientEmail = '';
  @track surveyData = '';
recepientHandle(event){
    if(event.target.label == 'Recipient Email'){
      this.recipientEmail = event.target.value;
    }else if(event.target.label == 'Survey Data'){
      this.surveyData = event.target.value;
    }
  }
  sendSurvey() {
    // Validate input data if needed
      console.log('email ' + this.recipientEmail);
      console.log('survey ' + this.surveyData);
    // Call the Apex method to send the survey email
```

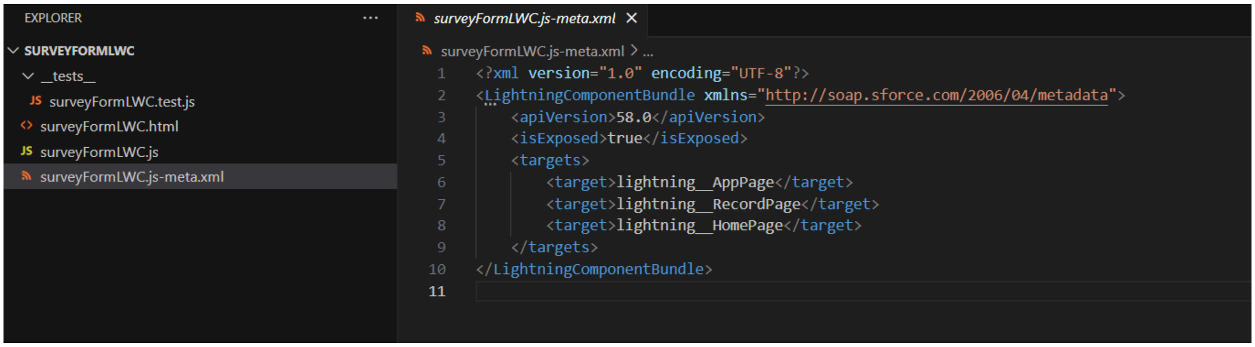
```
        sendSurveyEmail({ recipientEmail: this.recipientEmail, surveyData:
this.surveyData })
            .then(result => {
                // Handle success
                console.log('Email sent successfully:', result);
            })
            .catch(error => {
                // Handle errors
                console.error('Error sending email:', error);
            });
    }
}
```



```
<!-- surveyFormLWC.html -->
<template>
    <lightning-card title="Survey Form">
        <div class="slds-m-around_medium">
            <label>Email:</label>
            <lightning-input type="email" required value={recipientEmail} label="Recipient Email" onchange=
            {handleEmailChange}></lightning-input>

            <label>Survey Data:</label>
            <textarea value={surveyData} label="Survey Data" onchange={handleSurveyDataChange}></textarea>

            <lightning-button label="Send Survey" onclick={sendSurvey} disabled={isSendButtonDisabled}></lightning-button>

            <!-- Add this section for error display -->
            <template if:true={error}>
                <div class="slds-notify_container slds-is-relative">
                    <div class="slds-notify slds-notify_toast slds-theme_error" role="alert">
                        <span class="slds-assistive-text">Error</span>
                        <span class="slds-icon_container slds-icon-utility-error slds-m-right_small slds-no-flex
                        slds-align-top" title="Description of icon when needed">
                            <lightning-icon icon-name="utility:error" alternative-text="Error icon" variant="inverse"
                            size="small"></lightning-icon>
                        </span>
                        <div class="slds-notify__content">
                            <h2 class="slds-text-heading_small">{error}</h2>
                        </div>
                    </div>
                </div>
            </template>
        </div>
    </lightning-card>
</template>
```

SurveyFormLWC(html) code:

```
<!– surveyFormLWC.html –>

<template>

    <lightning-card title="Survey Form">

        <div class="slds-m-around_medium">

            <!– Your survey form HTML goes here –>
            <!-- Include fields for survey questions and input elements -->

            <!-- Example: -->

            <label>Email:</label>

            <lightning-input type="email" value={recipientEmail} onchange={recepientHandle} label="Recipient Email"></lightning-input>



                                      <lightning-textarea name="input2" label="Survey Data" value="initial value" onchange={recepientHandle}></lightning-textarea>




            <lightning-button label="Send Survey" onclick={sendSurvey}></lightning-button>

        </div>

    </lightning-card>

</template>

</lightning-card>

</template>
```



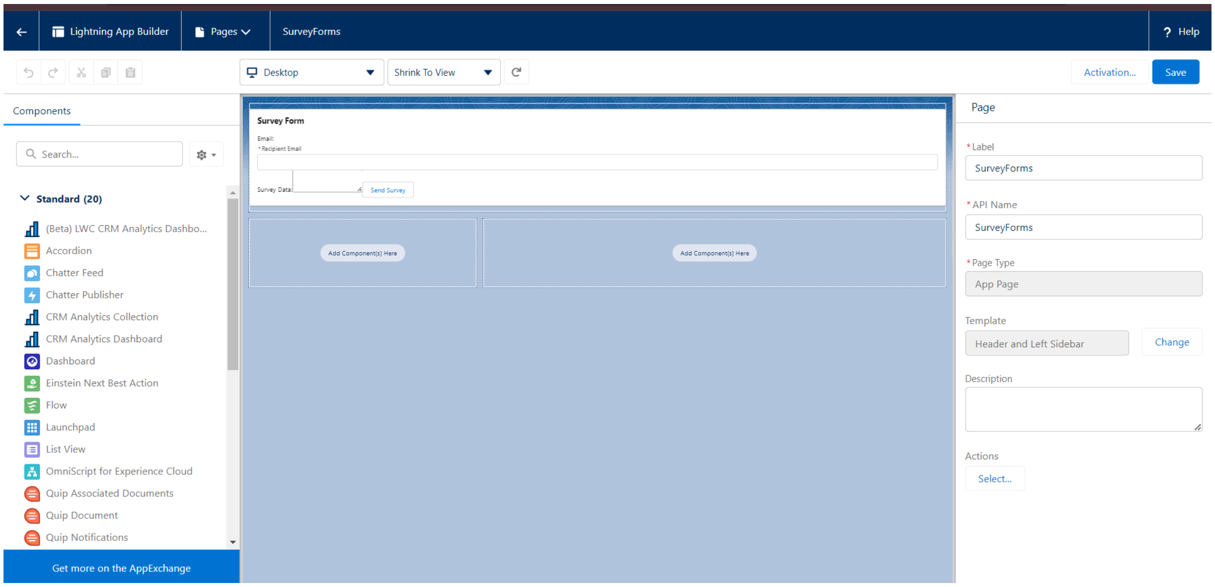
```
<?xml version="1.0" encoding="UTF-8"?>
<LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
    <apiVersion>58.0</apiVersion>
    <isExposed>true</isExposed>
    <targets>
        <target>lightning__AppPage</target>
        <target>lightning__RecordPage</target>
        <target>lightning__HomePage</target>
    </targets>
</LightningComponentBundle>
```

SurveyFormLWC(Xml) code:

```
<?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>
     </targets>
 </LightningComponentBundle>
```

Deploy the source code.

Drag the custom component on the App page



Page

* Label: SurveyForms

* API Name: SurveyForms

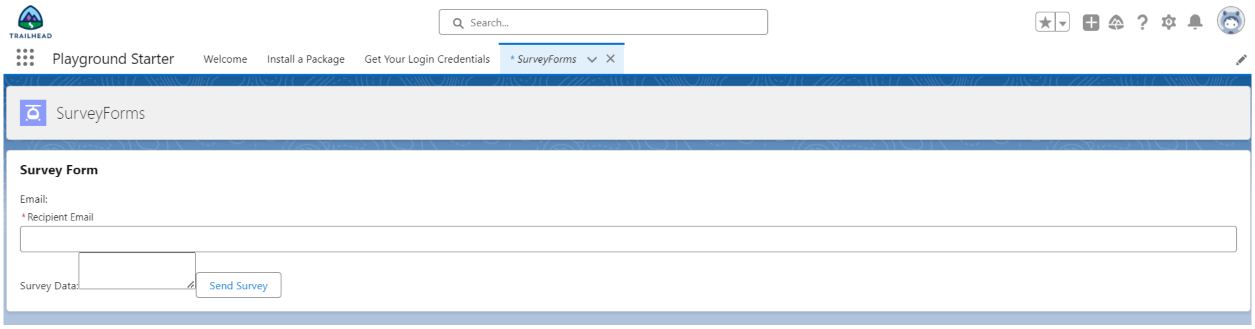
* Page Type: App Page

Template: Header and Left Sidebar

Description:

Actions

Save and activate.

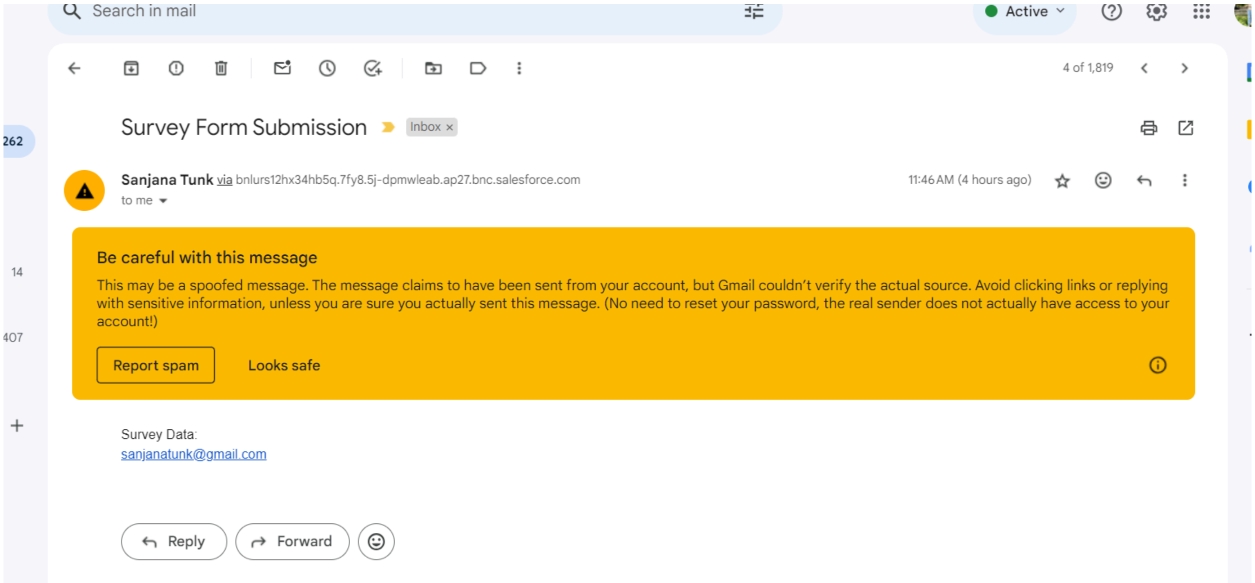


Survey Form

Email:

* Recipient Email

Survey Data:



Survey Form Submission

Sanjana Tunk via bnlurs12hx34hb5q.7fy8.5j-dpmwleab.ap27.bnc.salesforce.com

to me

11:46 AM (4 hours ago)

Be careful with this message

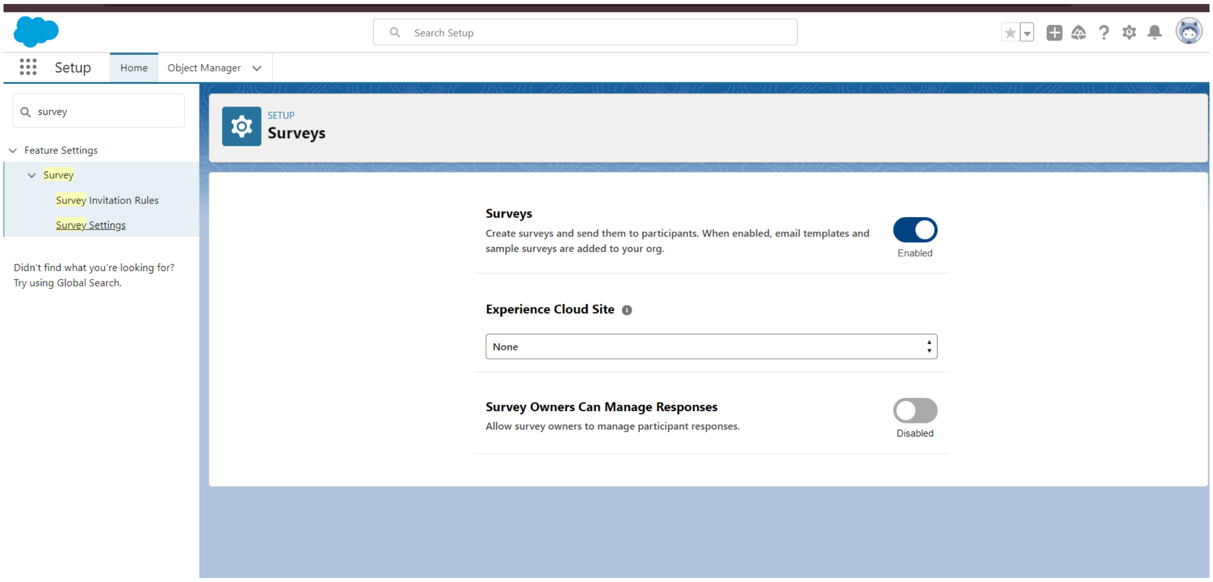
This may be a spoofed message. The message claims to have been sent from your account, but Gmail couldn't verify the actual source. Avoid clicking links or replying with sensitive information, unless you are sure you actually sent this message. (No need to reset your password, the real sender does not actually have access to your account!)

Survey Data:
sanjanatunk@gmail.com

Milestone 4 : SurveyFormLink

Activity -1

Create a Form for Survey
To create a custom object, follow these steps :
1. Click on the Gear Icon → From setup.
2. Click quick find, Survey settings.



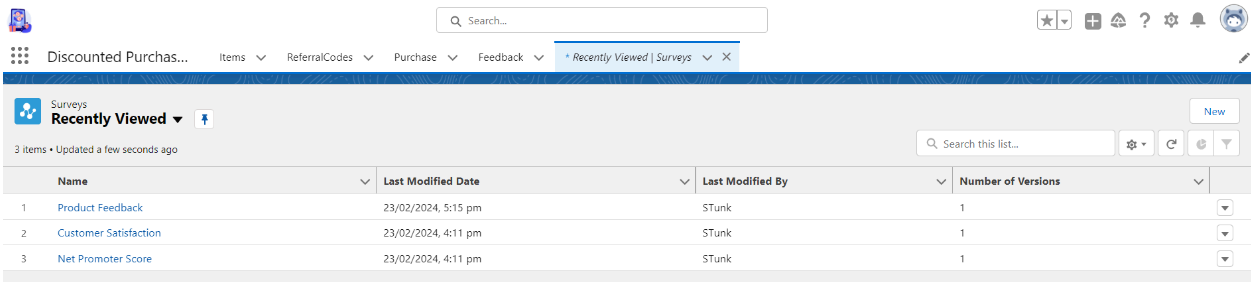
Surveys

Surveys
Create surveys and send them to participants. When enabled, email templates and sample surveys are added to your org.
Enabled

Experience Cloud Site
None

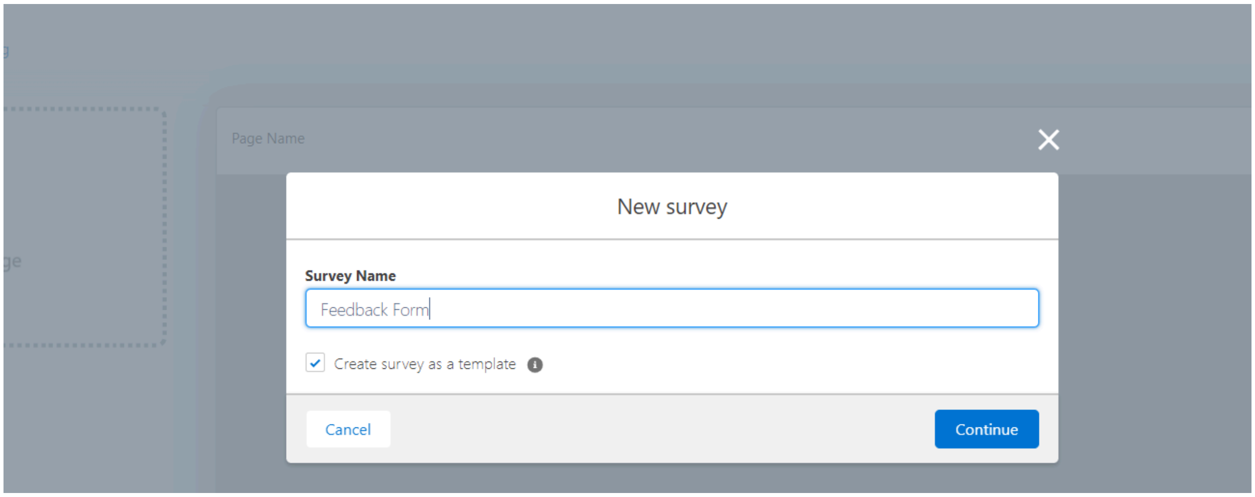
Survey Owners Can Manage Responses
Allow survey owners to manage participant responses.
Disabled

3. Click the App Launcher.
4. Search for "Survey".
5. Click on New to create one.



Surveys
Recently Viewed
3 items • Updated a few seconds ago

	Name	Last Modified Date	Last Modified By	Number of Versions
1	Product Feedback	23/02/2024, 5:15 pm	STunk	1
2	Customer Satisfaction	23/02/2024, 4:11 pm	STunk	1
3	Net Promoter Score	23/02/2024, 4:11 pm	STunk	1

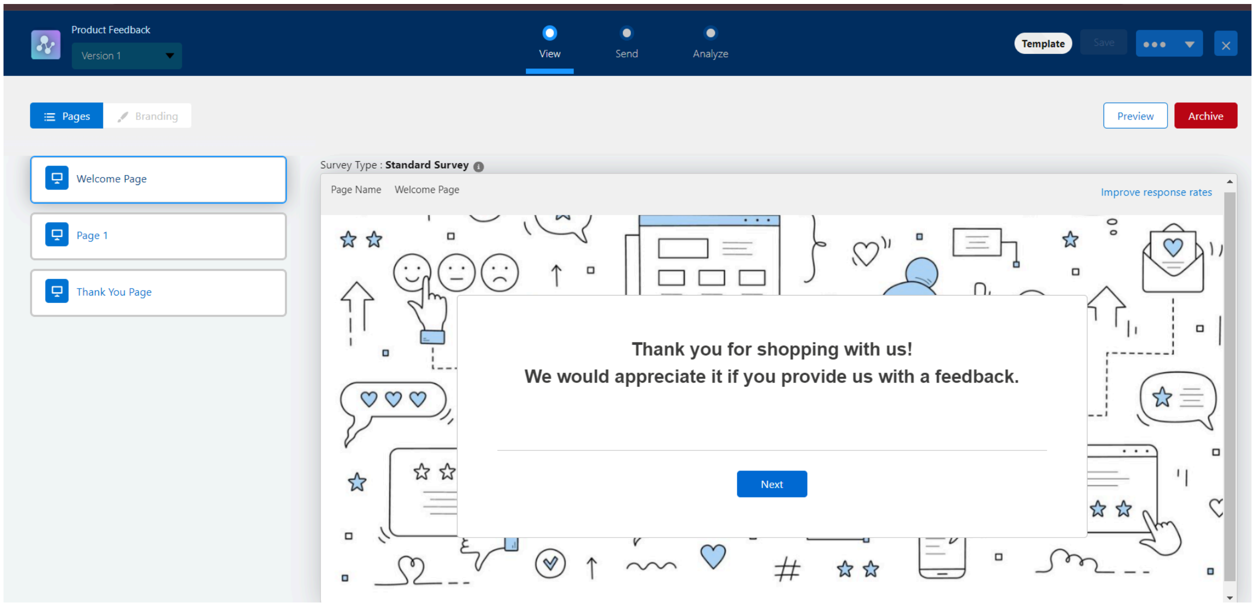


New survey

Survey Name
Feedback Form

☑ Create survey as a template

6. Fill the Survey Name as "Feedback Form".
7. Click on Create survey as a Template, then continue.


Product Feedback

Version 1

View Send Analyze

Template Save ••• ✕

Pages Branding

Preview Archive

Welcome Page

Page 1

Thank You Page

Survey Type : **Standard Survey**

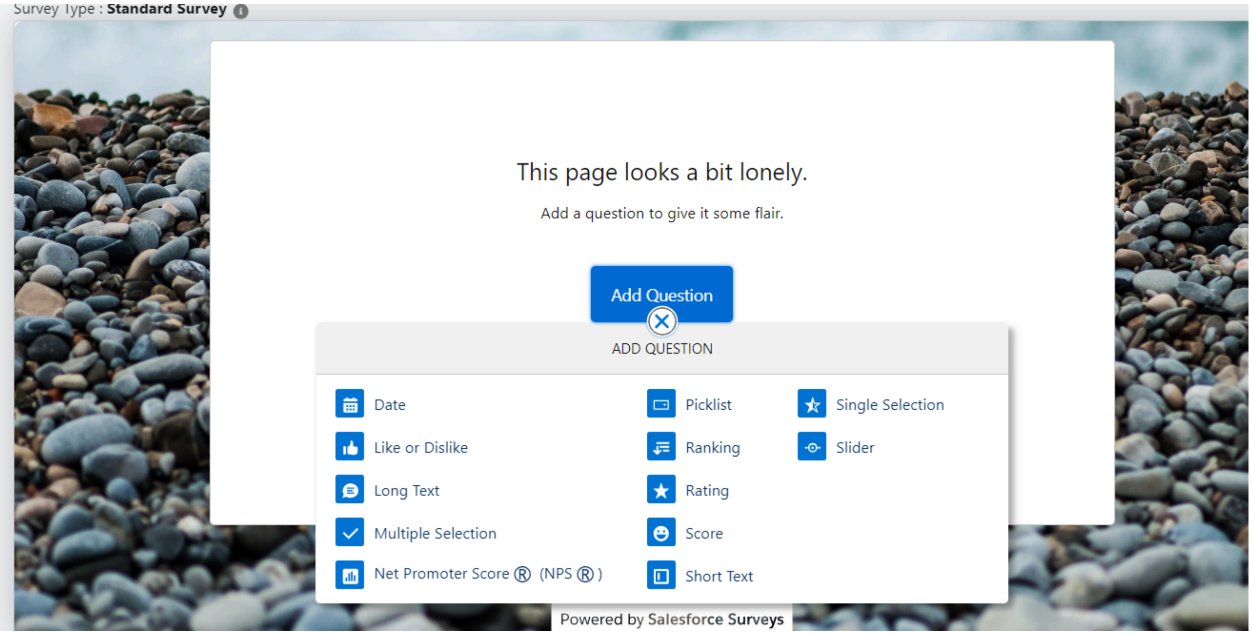
Page Name Welcome Page

Improve response rates

Thank you for shopping with us!
We would appreciate it if you provide us with a feedback.

Next

8. Click on Add Page, Then click on add question.


Survey Type : **Standard Survey**

This page looks a bit lonely.

Add a question to give it some flair.

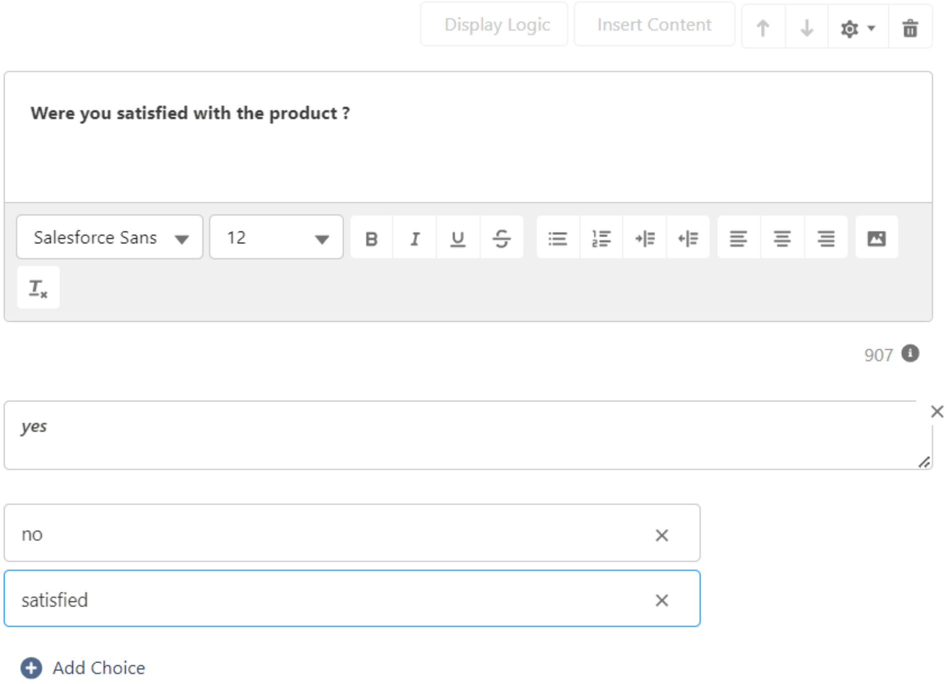
Add Question

ADD QUESTION

Date	Picklist	Single Selection
Like or Dislike	Ranking	Slider
Long Text	Rating	
Multiple Selection	Score	
Net Promoter Score ® (NPS ®)	Short Text	

Powered by Salesforce Surveys

9. Choose multiple selection then enter your desired question



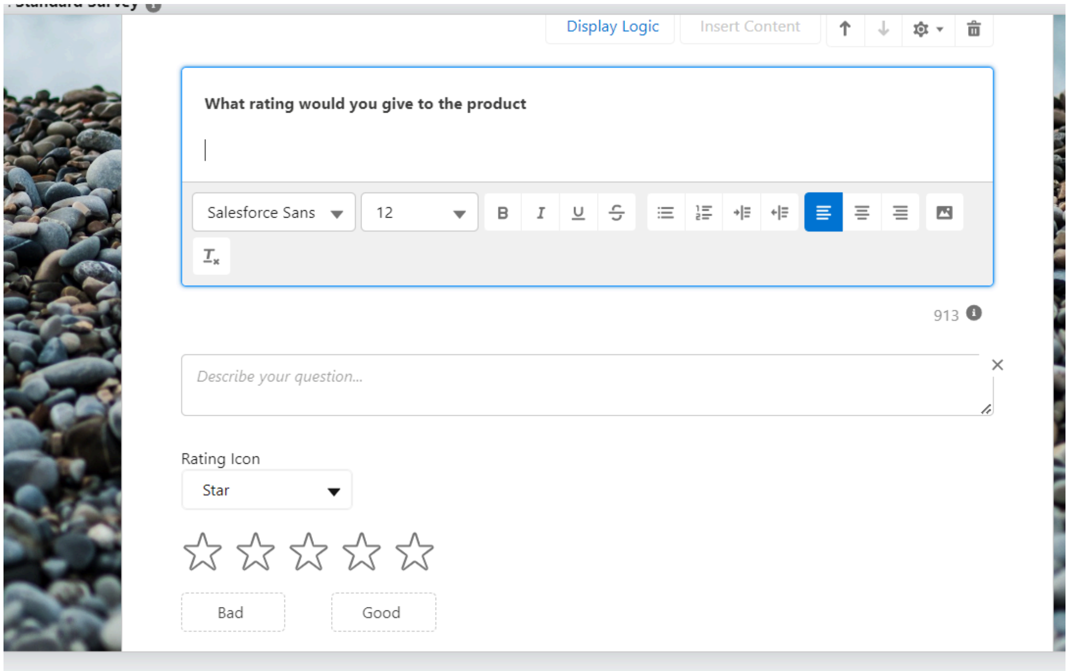
Were you satisfied with the product ?

yes

no

satisfied

10. Click Add question, Select Rating, define the question

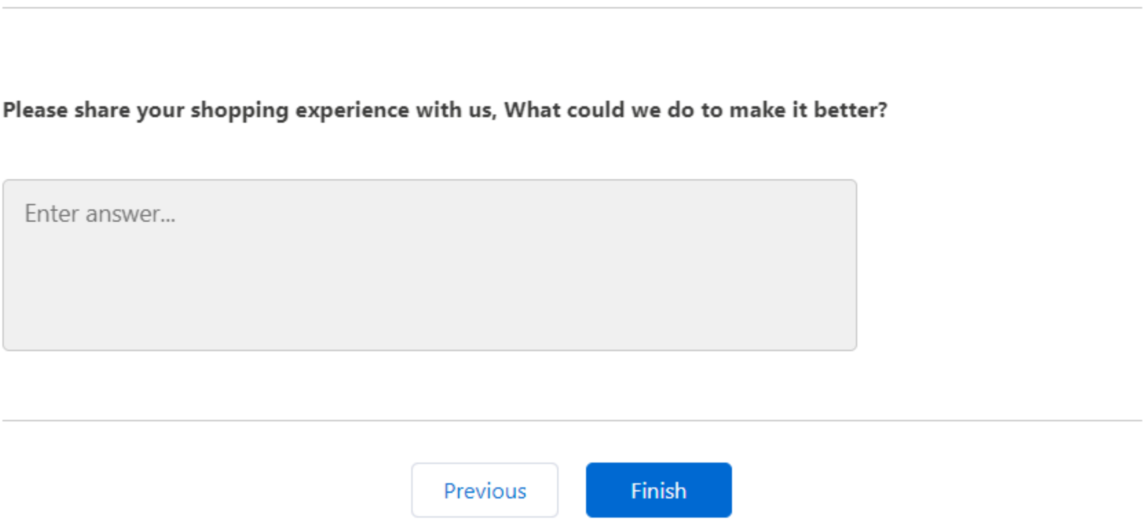


What rating would you give to the product

Describe your question...

Rating Icon: Star

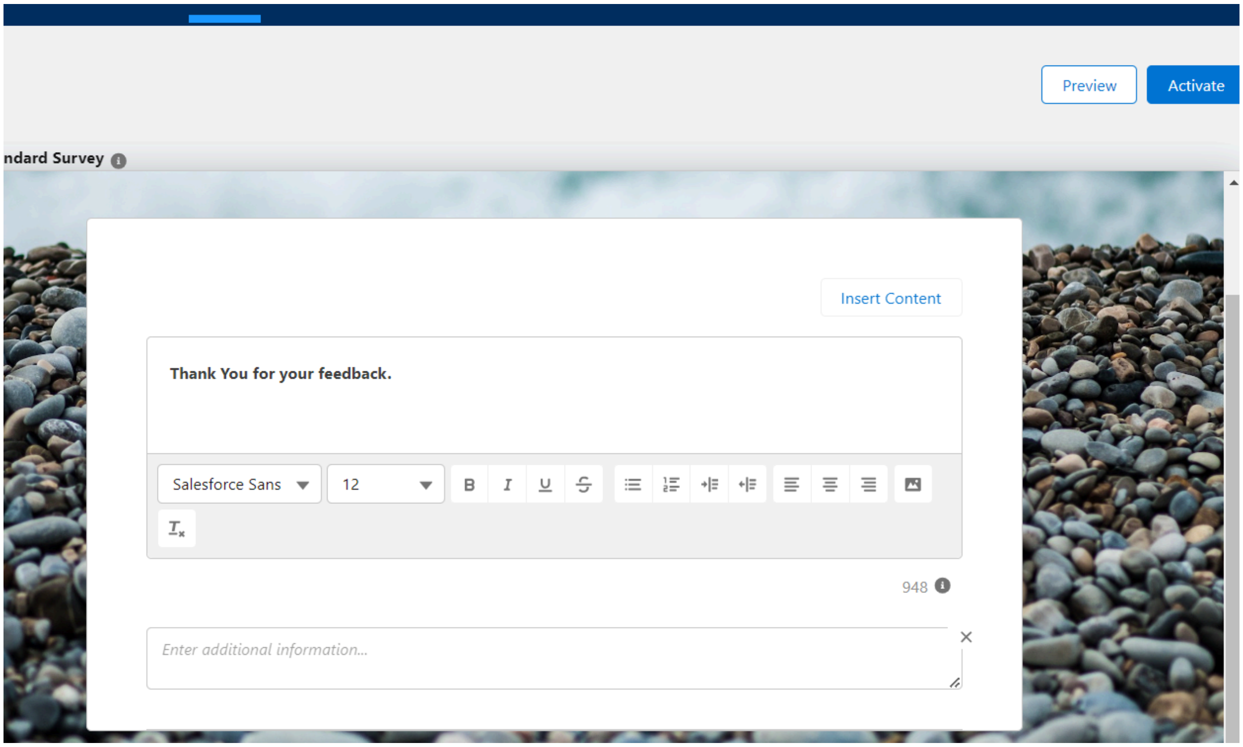
11. Click Add question, Select Long Text, define the question.



Please share your shopping experience with us, What could we do to make it better?

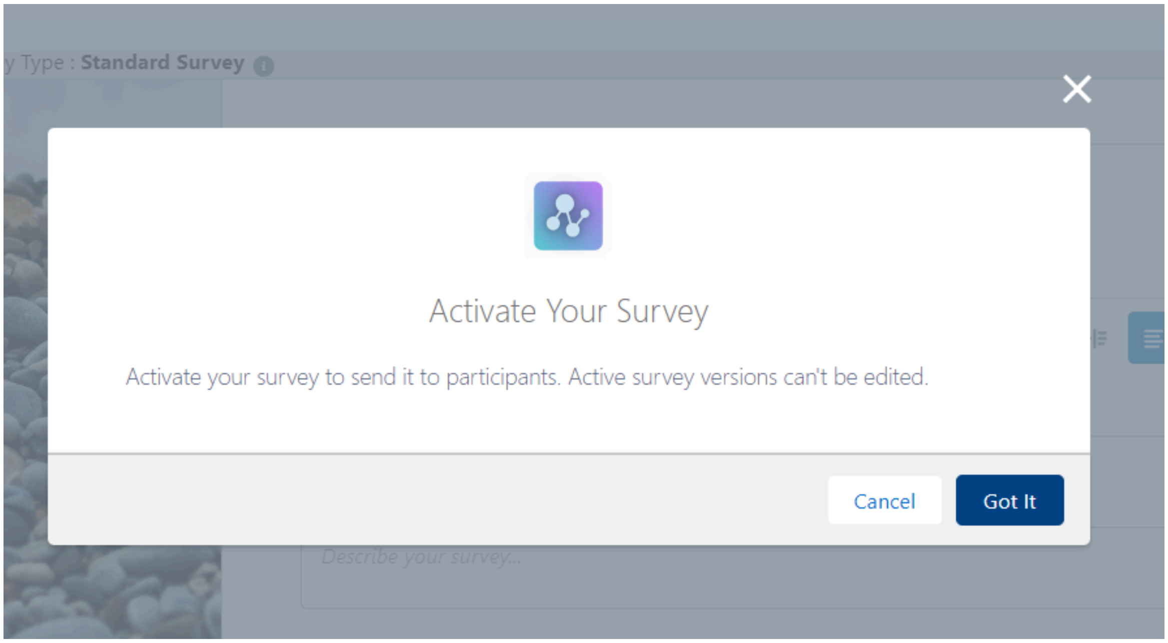
Enter answer...

12. Click on Add Page, Thenadd a thankyou message.



Thank You for your feedback.

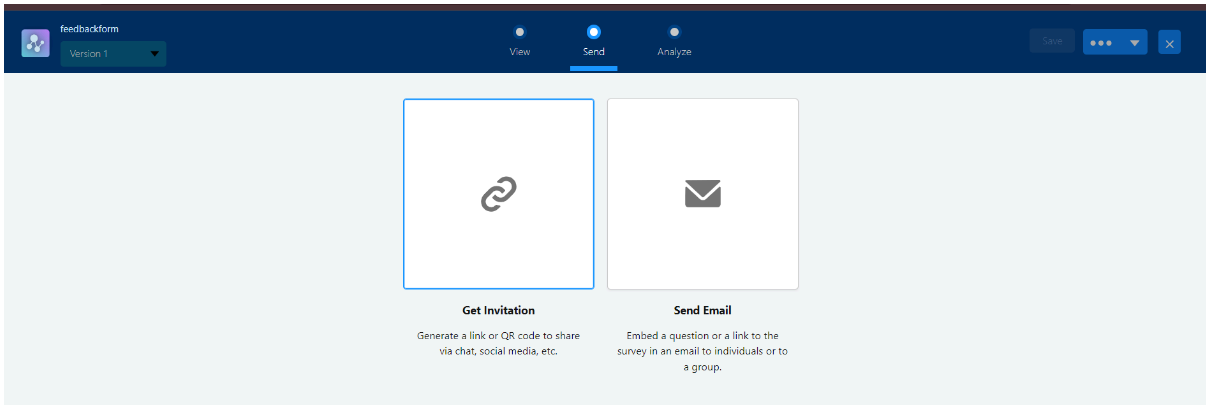
13. Activate the survey.



Activate Your Survey

Activate your survey to send it to participants. Active survey versions can't be edited.

14. Click Send, You can either copy the link or send it through mail. And then click on Analyze to check the response received.

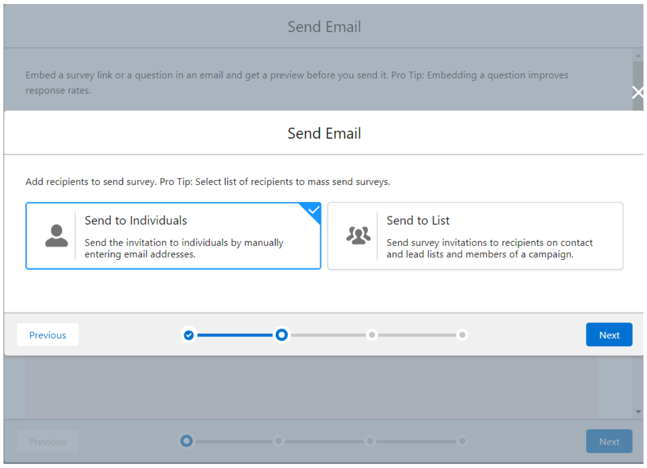


Get Invitation

Generate a link or QR code to share via chat, social media, etc.

Send Email

Embed a question or a link to the survey in an email to individuals or to a group.



Send Email

Embed a survey link or a question in an email and get a preview before you send it. Pro Tip: Embedding a question improves response rates.

Send Email

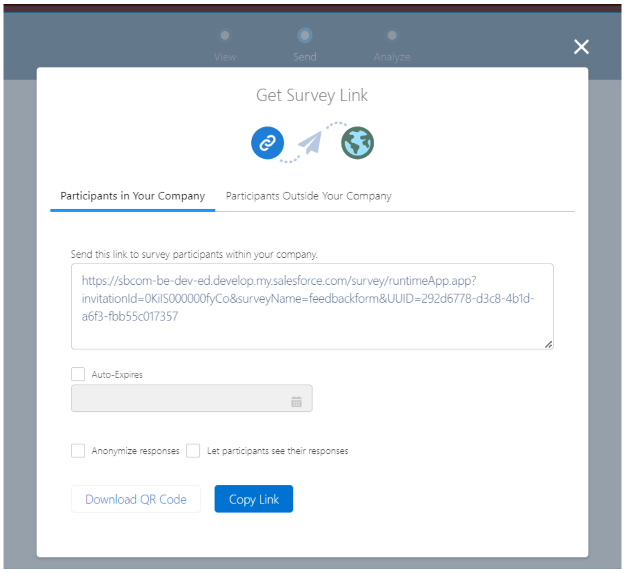
Add recipients to send survey. Pro Tip: Select list of recipients to mass send surveys.

Send to Individuals

Send the invitation to individuals by manually entering email addresses.

Send to List

Send survey invitations to recipients on contact and lead lists and members of a campaign.



Get Survey Link

Participants in Your Company

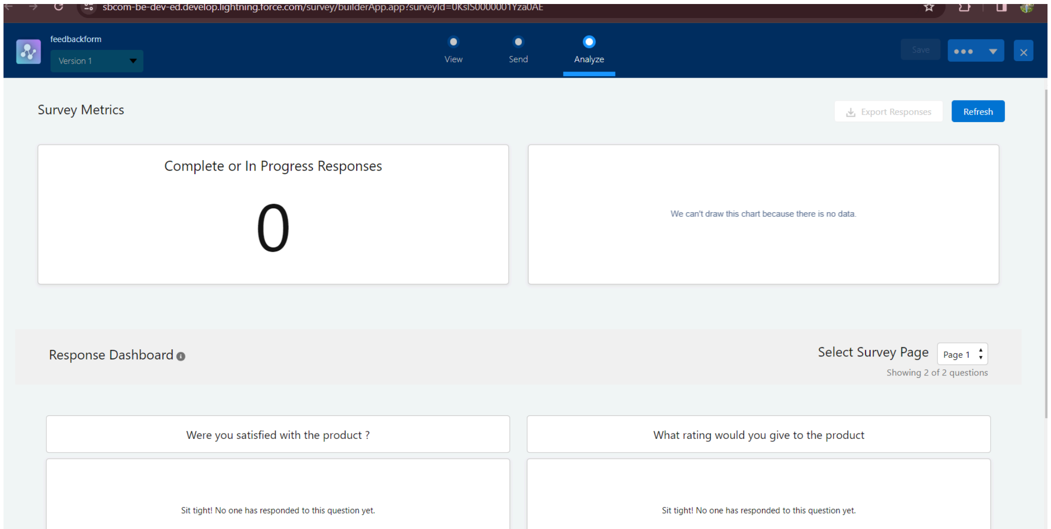
Participants Outside Your Company

Send this link to survey participants within your company.

https://sbcom-be-dev-ed.develop.my.salesforce.com/survey/runtimeApp.app?invitationId=0KiIS000000fyCo&surveyName=feedbackform&UUID=292d6778-d3c8-4b1d-a6f3-fbb55c017357

□ Auto-Expires

□ Anonymize responses □ Let participants see their responses



sbcom-be-dev-ed.develop.lightning.force.com/survey/builderApp.app?surveyId=0KsIS0000001Yza0AE

feedbackform

Version 1

Survey Metrics

Complete or In Progress Responses

0

We can't draw this chart because there is no data.

Response Dashboard

Select Survey Page Page 1

Showing 2 of 2 questions

Were you satisfied with the product ?

Sit tight! No one has responded to this question yet.

What rating would you give to the product

Sit tight! No one has responded to this question yet.