Adopt a Pet App

This article covers how to build an app to adopt pets through an integration with Petfinder.

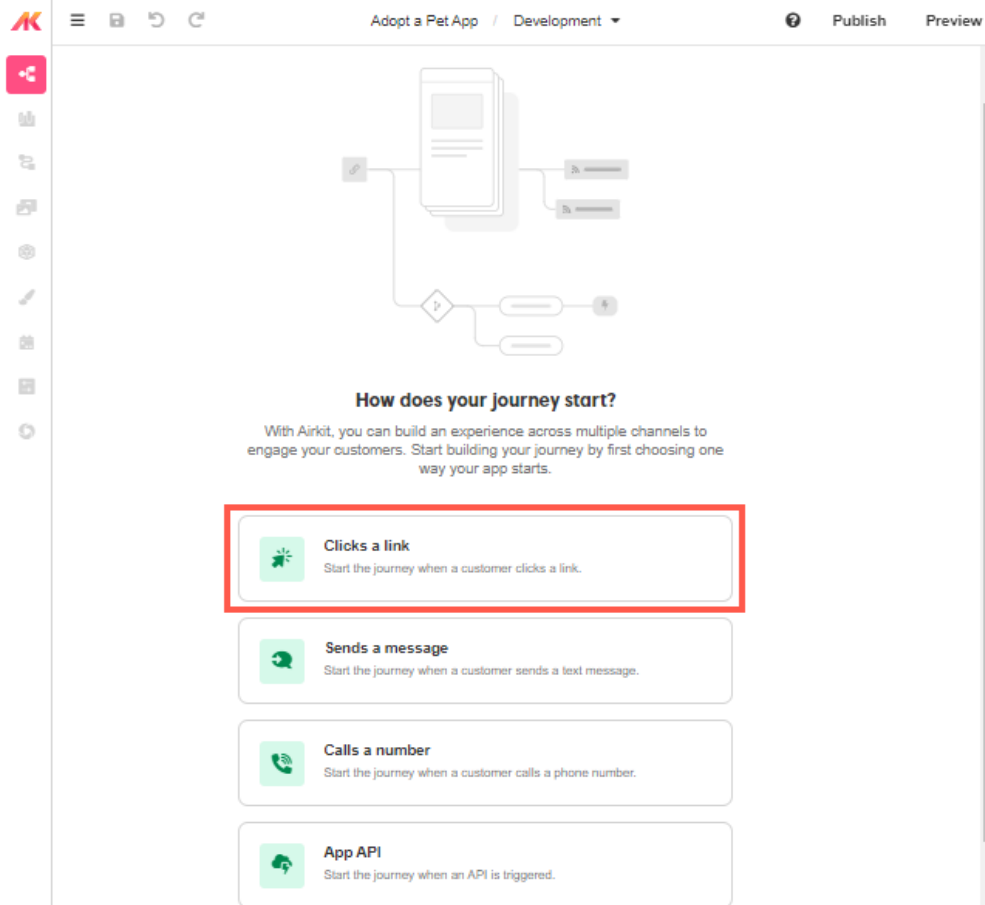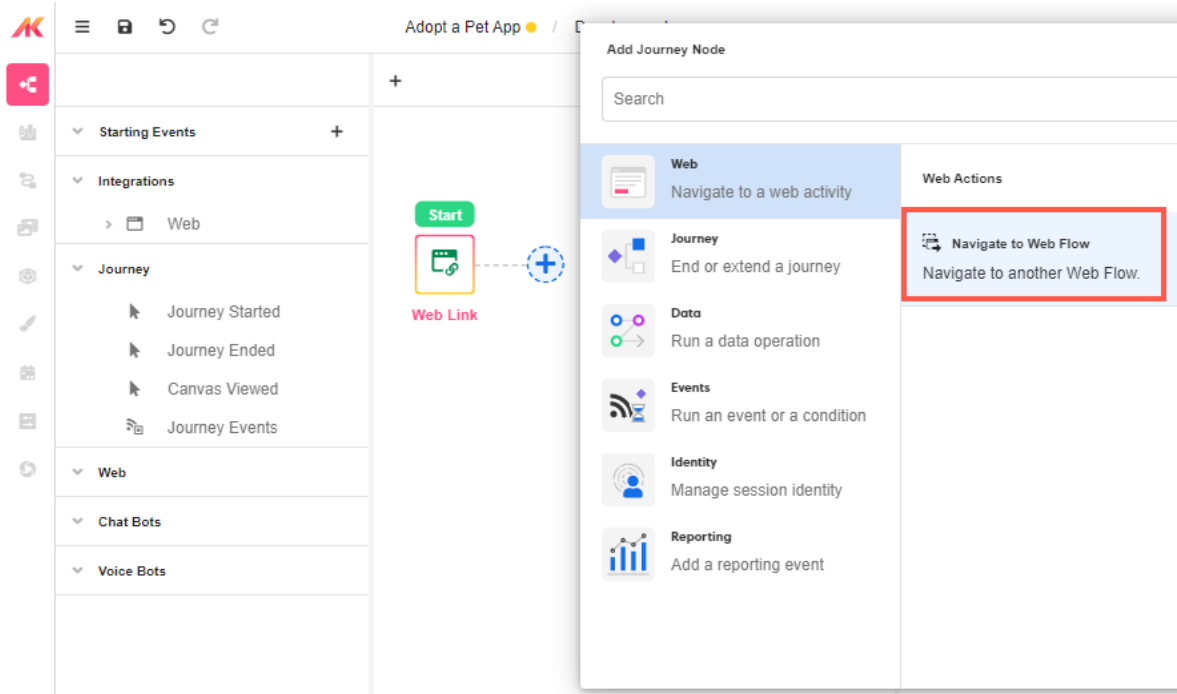# Contents

Defining the App Journey

Once the app is created, you are all set up to start building it. When you first access the app, you'll land on Journey Builder.
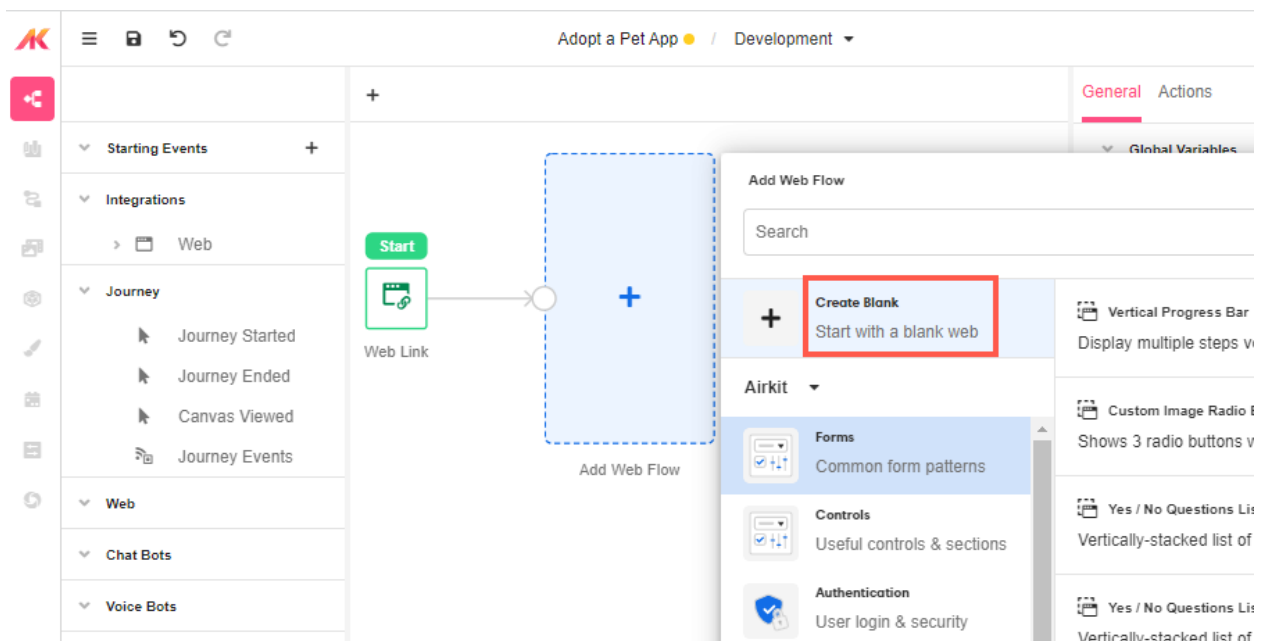
1. Since this app follows a standard journey where users access through a link, select Clicks a link.
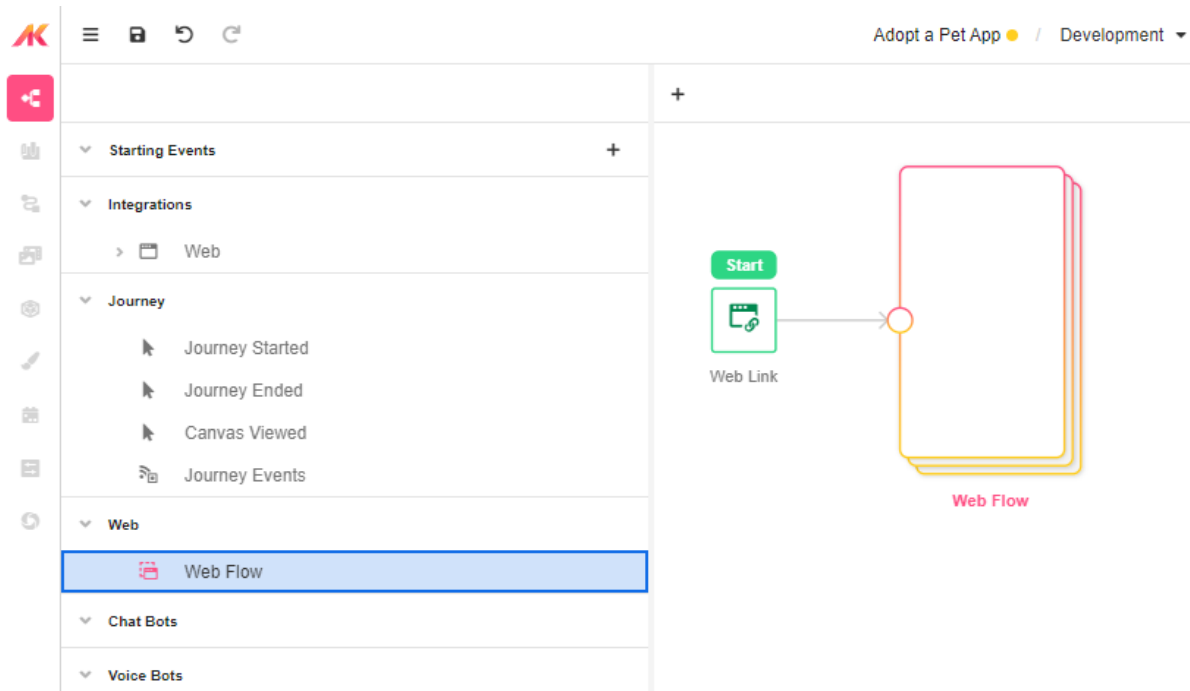
2. Then click on the '+' icon and select Navigate to Web Flow.

3. Add a Web Flow by clicking on the blue '+' icon and selecting Create Blank.


4. Once the Web Flow is added, double click into it and you'll be directed to Web Builder.

Building the Home Web Page Part I

Now, we are going to start building the app's UI. In this section, we will focus on the first Web Page and later on, we will configure the controls we added.

1. In Web Builder, start by double clicking on the recently added Web Flow to rename it to "Adopt a Pet". It is very important to keep transparent names when building.
2. Then add a Web Page by clicking on the '+' icon next to the Web Flow.
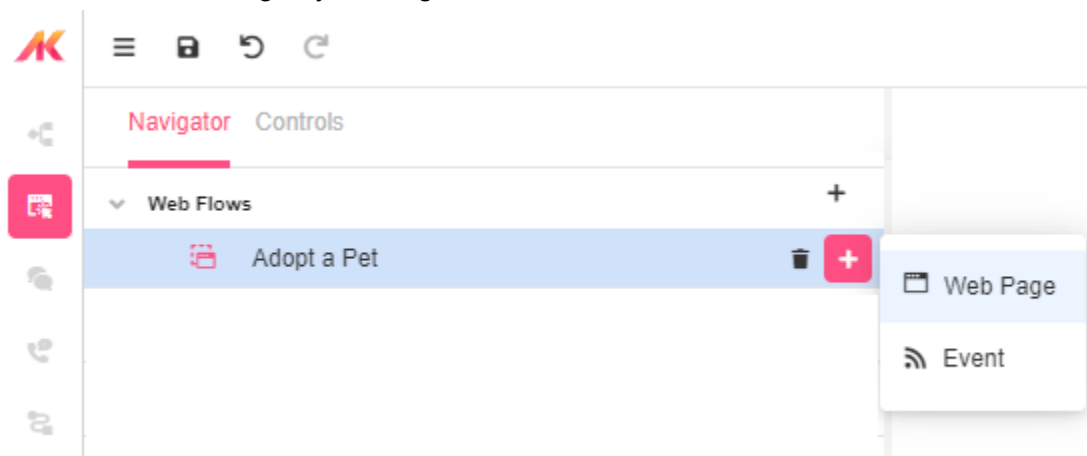
3. Rename that first Web Page to Home Web Page and click on the '+' icon next to it to add two Label controls.
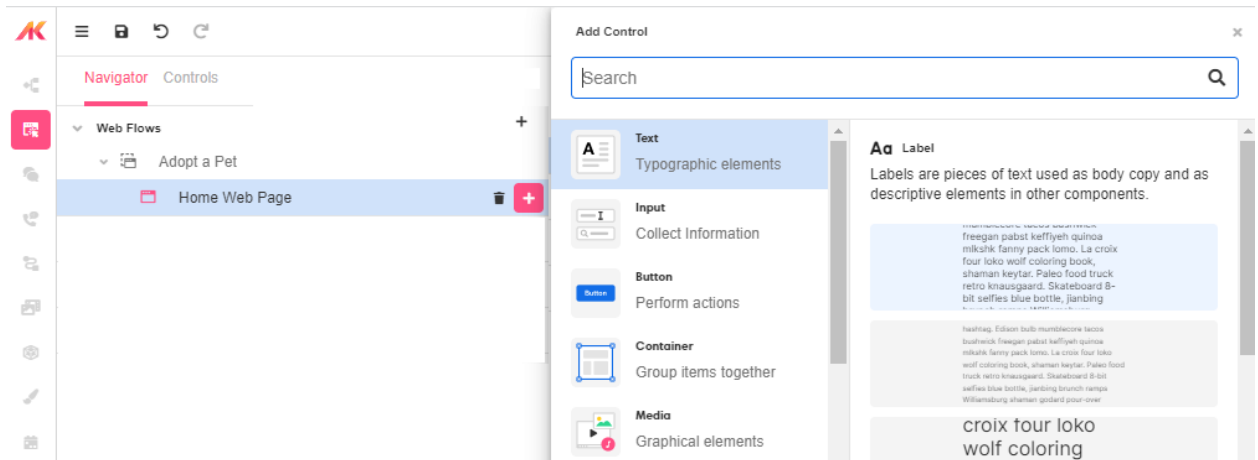
4. Since the first Label will be for the title, let's rename it to "Adopt a Pet" by hovering over the control in the Stage section or, in the Inspector section, you can edit the Control Properties Text. The second Label will be used to introduce the first question, so let's rename it to "What type of pet do you want to adopt?"
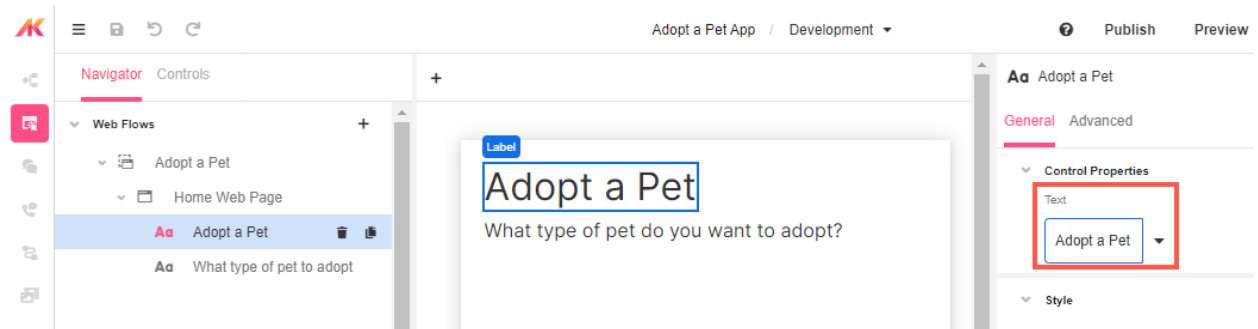
5. Next, add a Dropdown List control.
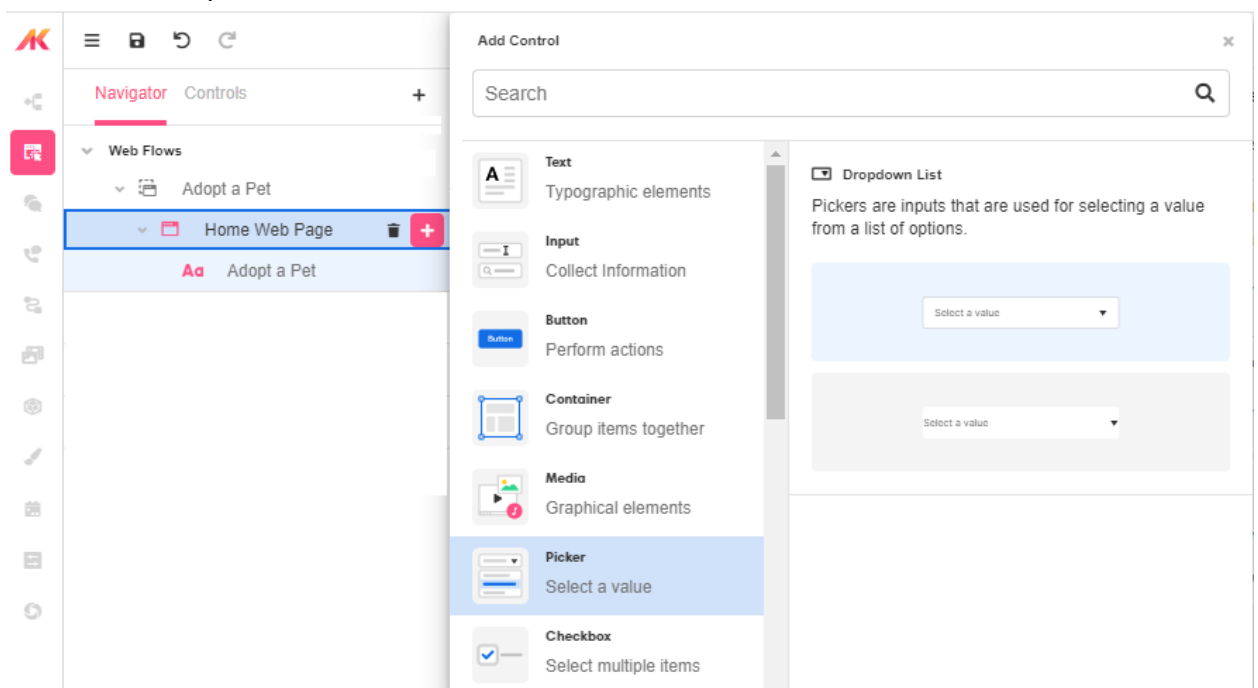
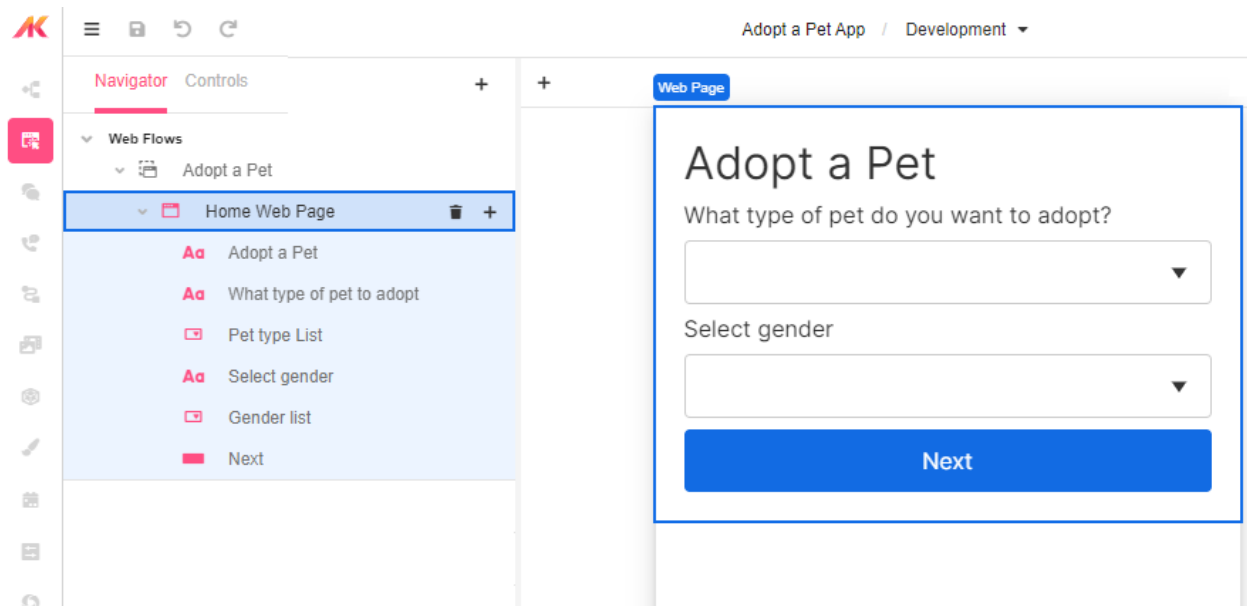6. Repeat the steps for the second prompt: add another Label and a Dropdown List control. Then rename the Label so that it reflects its purpose to "Select gender". Finally, add a Next Button and your Home Web Page will look like this:

The dropdown lists will be later populated with information from the Petfinder Integration.

Setting up the Petfinder API

To integrate with the Petfinder API, you need to register an application and obtain the API key and Secret. To get an API key, you need to create a Petfinder account.

1. Create an account at https://www.petfinder.com/user/login/
2. Once logged in, go to www.petfinder.com/developers and complete the form with your app details.
3. Finally, click on Get a key.

Get an API Key

Application name
Adopt a Pet

Application URL
http://airkit.com

For mobile applications, you can provide a link to the app's listing in an app marketplace, such as the Google Play Store or the Apple App Store.

How do you plan to use the API? (optional)

☑ I have read and agree to the Petfinder API Terms of Service.

GET A KEY

Now your API Key and Secret are ready to be used. You'll need this information to set up the integration in your app.

API Access Granted

You have been granted Petfinder API access and assigned an API key and secret. Your API key expires if unused for 120 days, but you can always request a new one.

API Key

ipSMUUZJyj8TxZAIEPdSFGRj3whImmEycl3Lm7ulo8oR6lasb4   copy

Secret

Show Secret	copy

You can always view your key and secret on your API account page, where you can also request elevated access if needed. The Petfinder API documentation outlines the basics for getting started, as well as the details of each endpoint.

VIEW DOCUMENTATION

Creating the Custom Integration

Now that you have the API Key and Secret, Go back to the Airkit Console to create the new Integration. The integration will allow you to get the access token to make HTTP requests in the

app. Before following the steps, open this reference documentation to keep the configuration details handy.

1. Click on Integrations on the left side menu. Select Custom Integrations and click on Create new.
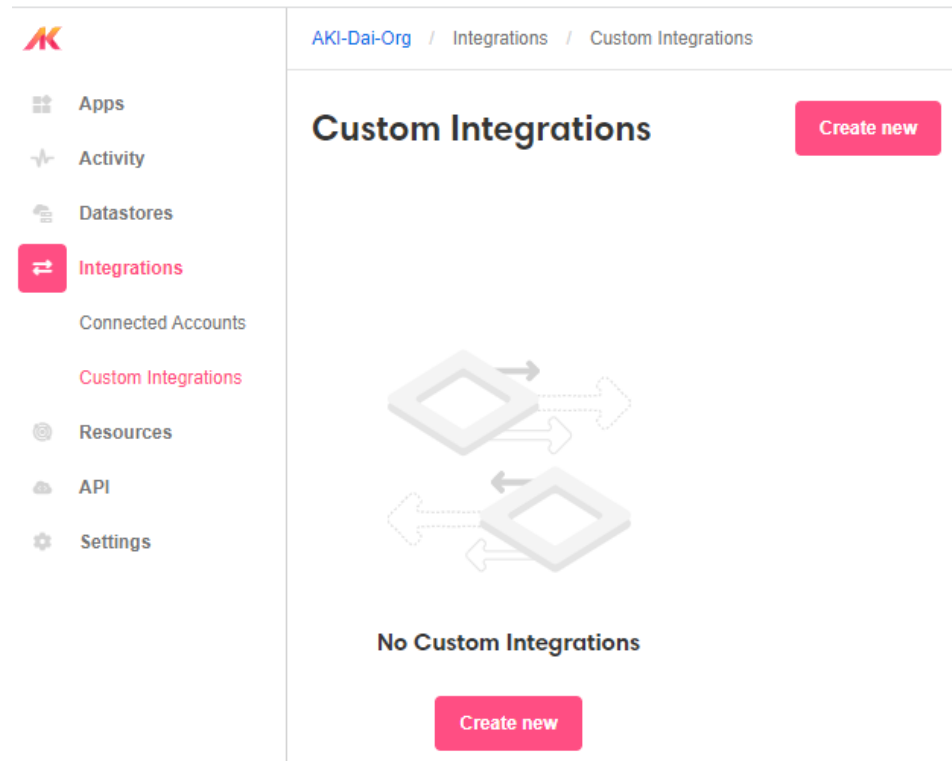
2. A few fields will display for you to complete as follows:
   a. Add a name for your integration
   b. Enter the "petfinder-integration" key, which is used to identify the integration.
   c. Select Custom Token as the Authentication Type
   d. For the Access Token Endpoint, enter the following URL: https://api.petfinder.com/v2/oauth2/token
   e. Select POST as the Token Verb

⇄ Create new integration

∨ **Properties**

Integration Name *

Petfinder integration

Key *

petfinder-integration

Authentication Type *

Custom Token

∨ **Custom Token**

Access Token Endpoint *

https://api.petfinder.com/v2/oauth2/token

Access Token Verb *

POST

3. In Access Token Parameters, click on the '+' icon to define the following integration parameters:

        a. grant_type:

Access Token Parameters   **+**

grant_type   **−**

Create new

Parameter Properties   ✕

Parameter Name

grant_type

Parameter Value

client_credentials

Location

Body Parameter ▾

Secure this parameter   ⬤

Auth Token

Token Parameter Type *

URL Parameter ▾

Token Parameter Name *

e.g. "Authorization"

Token Parameter Value Template ({token} is substituted for actual token) *

e.g. "Bearer {token}"

Parameters   **+**

Click the + to add parameters

Cancel   **Create**

b. client_id:

c. client_secret:

4. Once the Parameters are set, complete these last three fields:
   a. Choose Header as the Token Parameter Type.
   b. Name the Token Parameter as "Authorization".
   c. Enter "Bearer {token}" as Parameter Value and click on Create.

Now you can see Petfinder listed among your Custom Integrations.

Creating a Connected Account

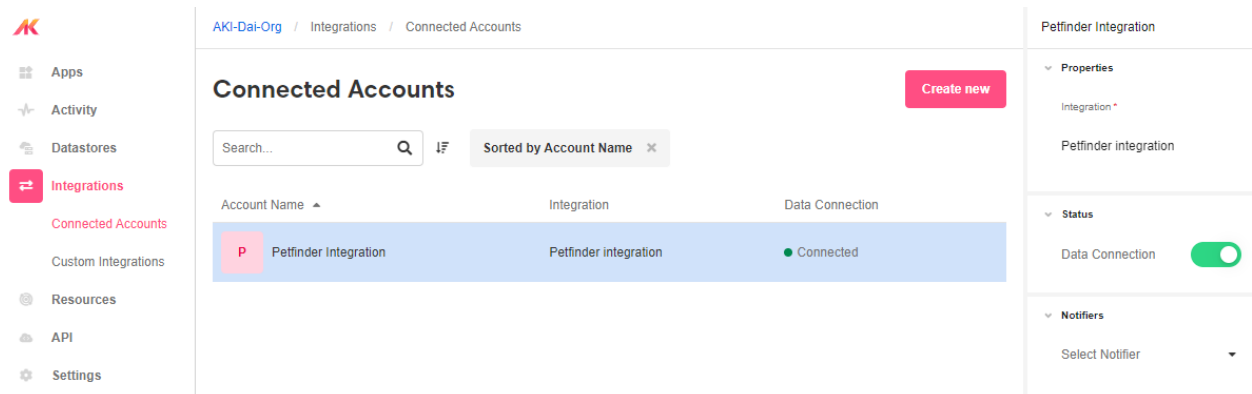Now let's connect the account from the Airkit Console

1. Go Integrations > Connected Accounts and click on Create new. Add an Account Name and select the Petfinder Integration from the Integration dropdown.
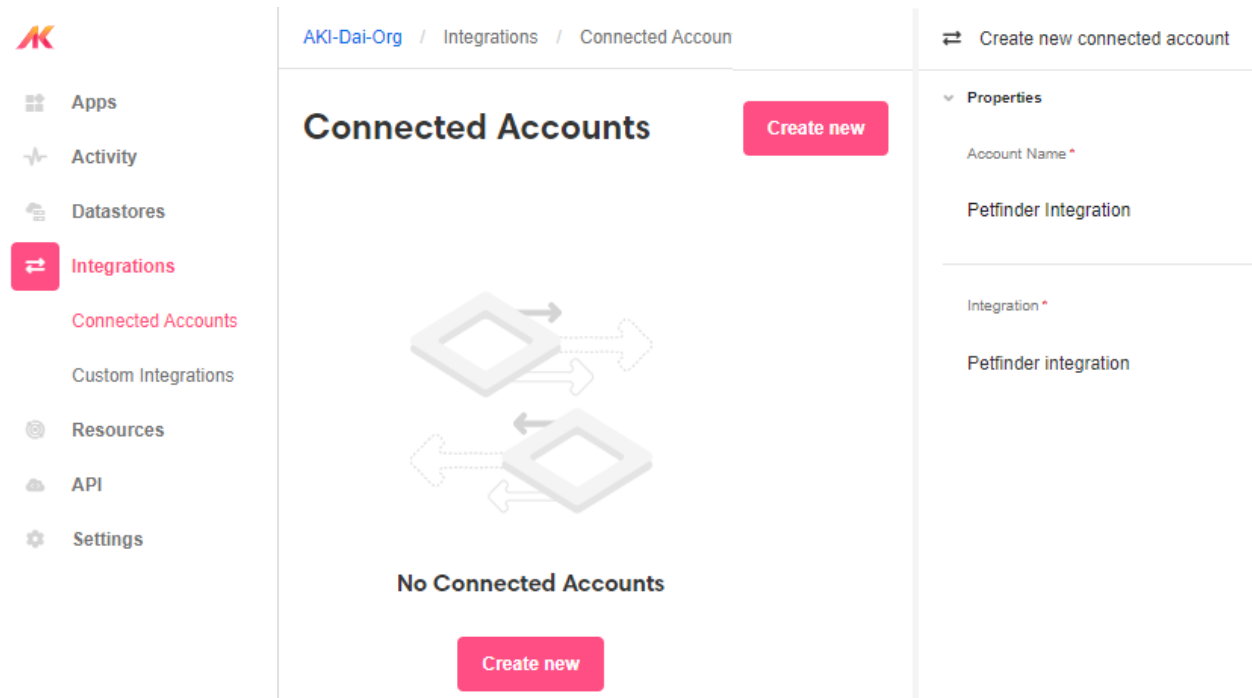

2. Click on Create to connect the Integration. It will show up in the list among your other connected accounts.

Setting Up the Integration

Next step is to set up this integration and associate it with your app so that it can pull data from the API.

1. Go back to editing your app in the Studio and go to Configuration Builder. Then scroll down to Integrations.
2. Click on New and in Adapters, select the Petfinder Integration.
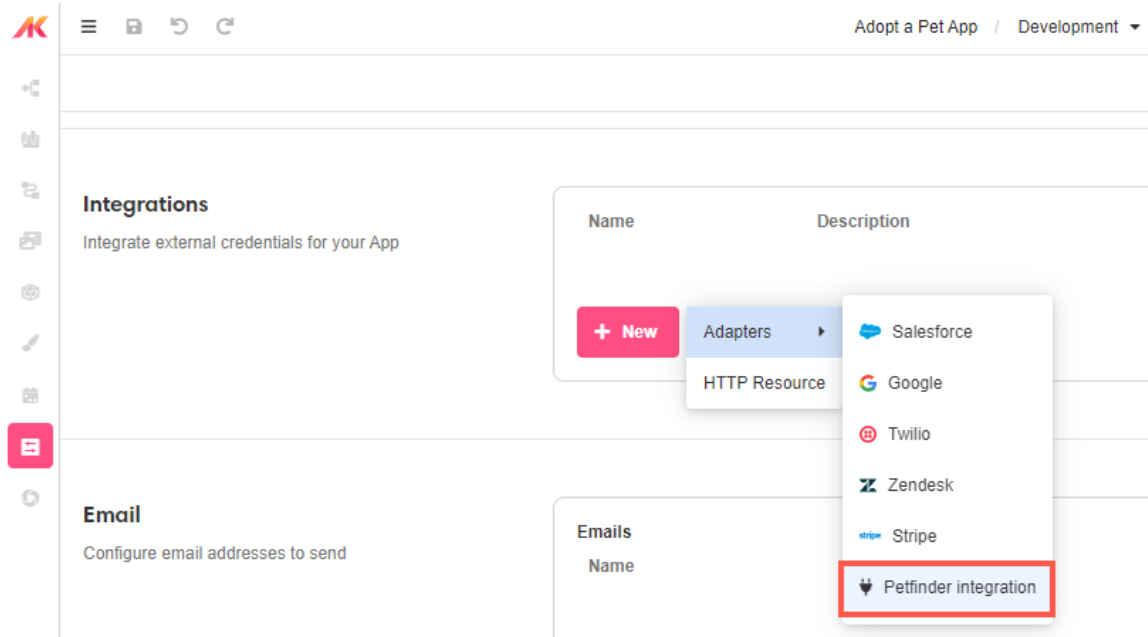
3. Finally, in Connected Account, select the Petfinder Integration
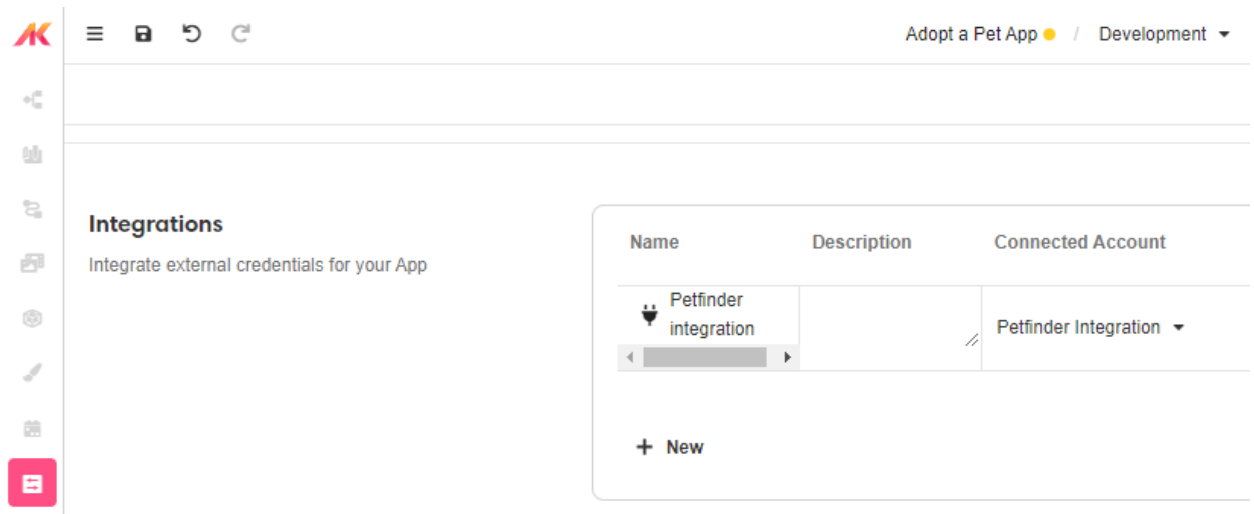
4. Save the app.

Building the App Part II

Creating the Data Flow

In this section, we will create a Data Flow to populate the Dropdown List controls by hitting the Petfinder API and passing the results as the output.
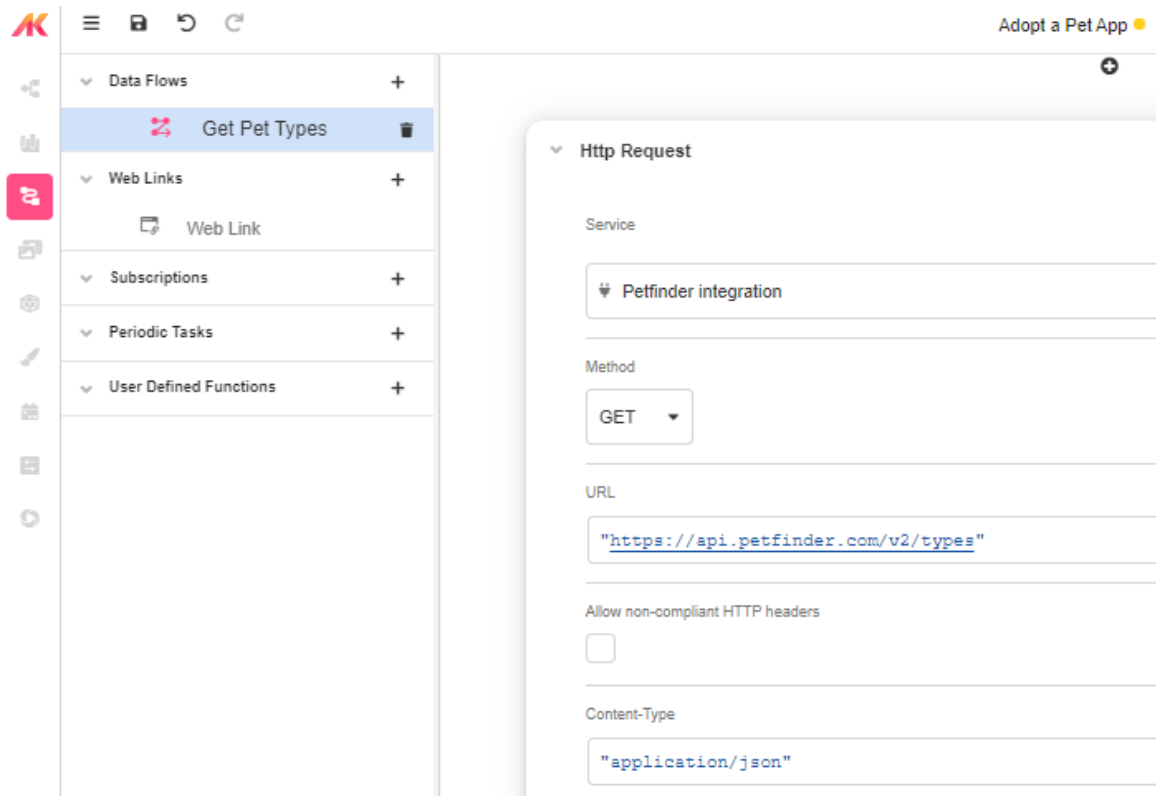
1. Go to Connection Builder and click on the '+' icon next to Data Flow and then on Create Blank. Rename the Data Flow to "Get Pet Types".
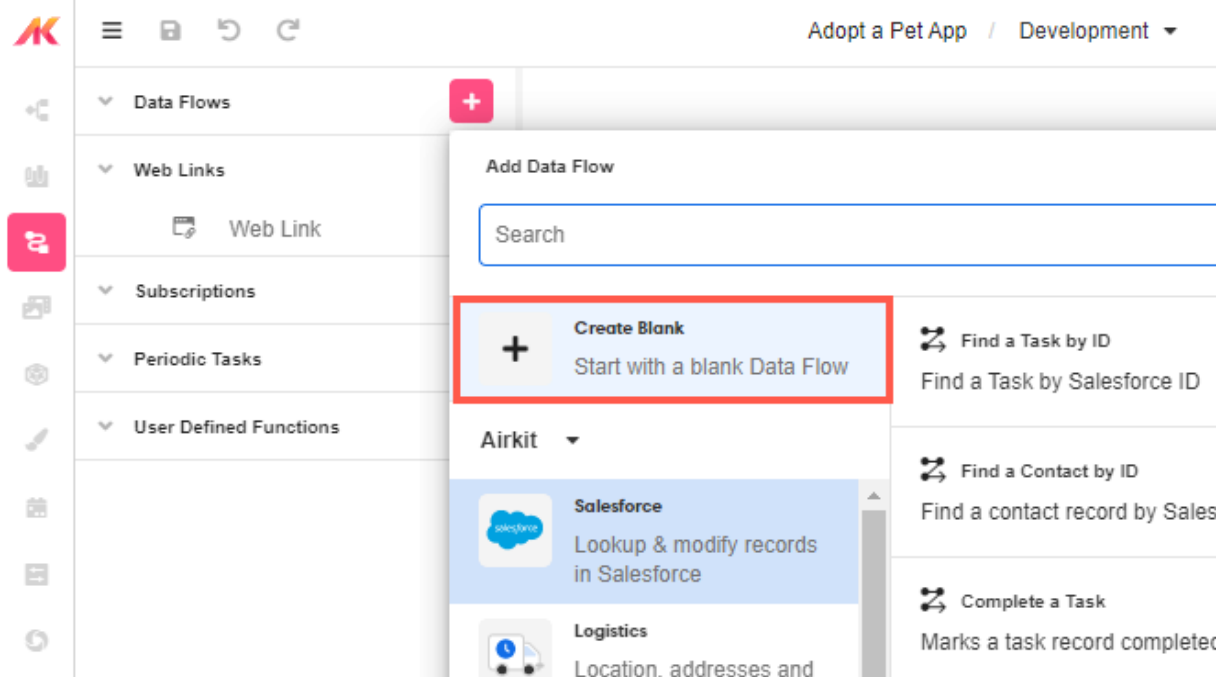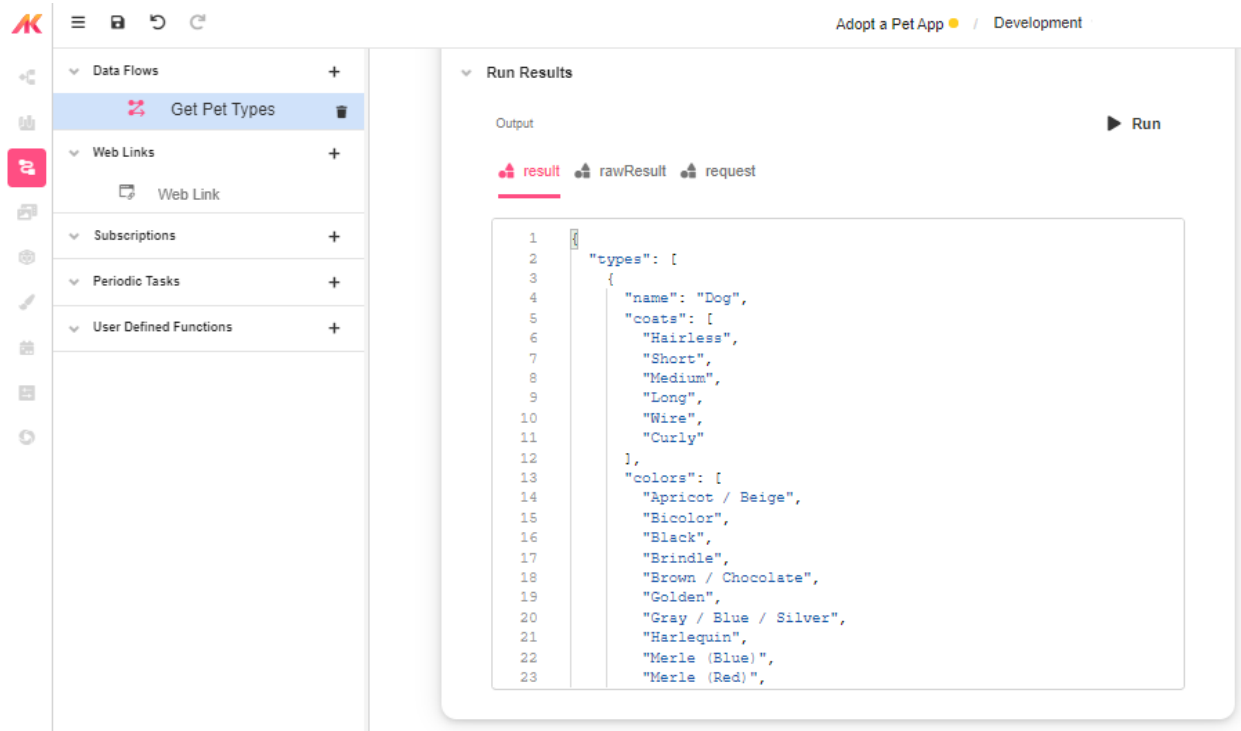

2. Click on the '+' icon and, from the Data Requests options, select the HTTP Request Data Operation.
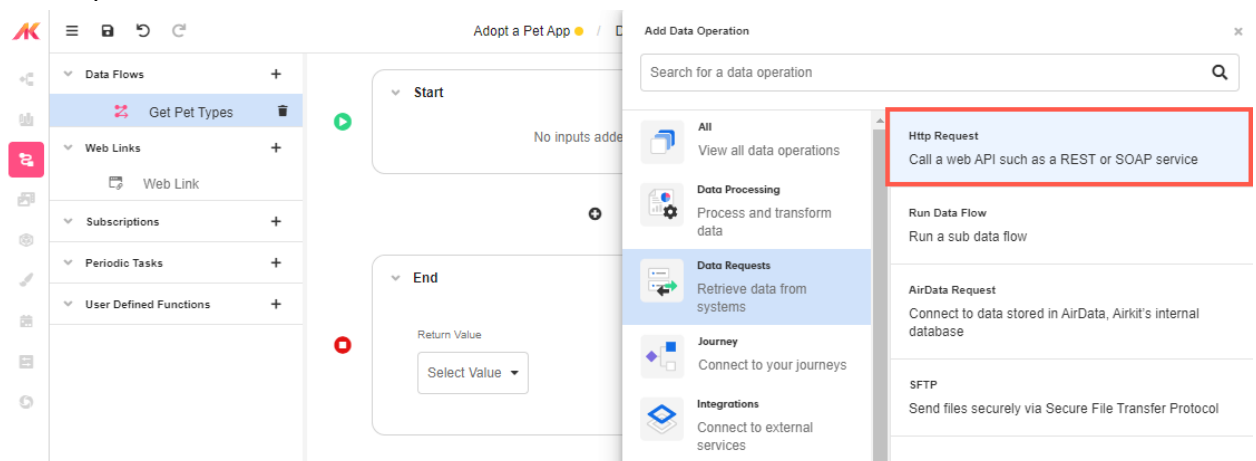
3. Select the Petfinder Integration as the Source and as for URL copy and paste the following: https://api.petfinder.com/v2/types
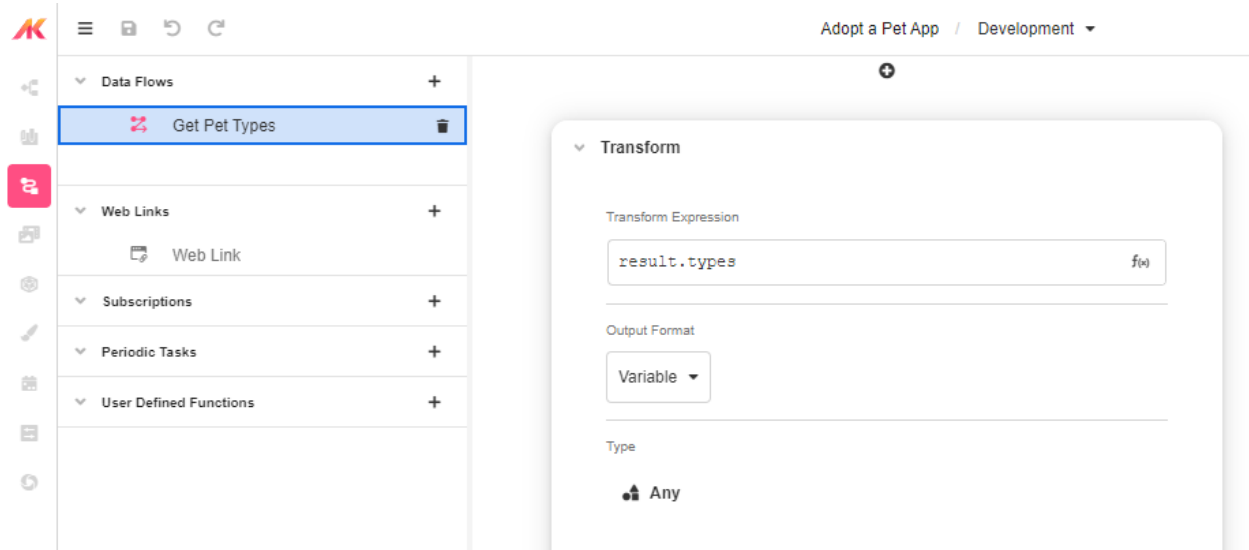
4. In Run Results, hit Run for the Data Flow to retrieve the list of pet types.

5. Add a Transform Data Operation by clicking on the '+' icon below the HTTP Request one.
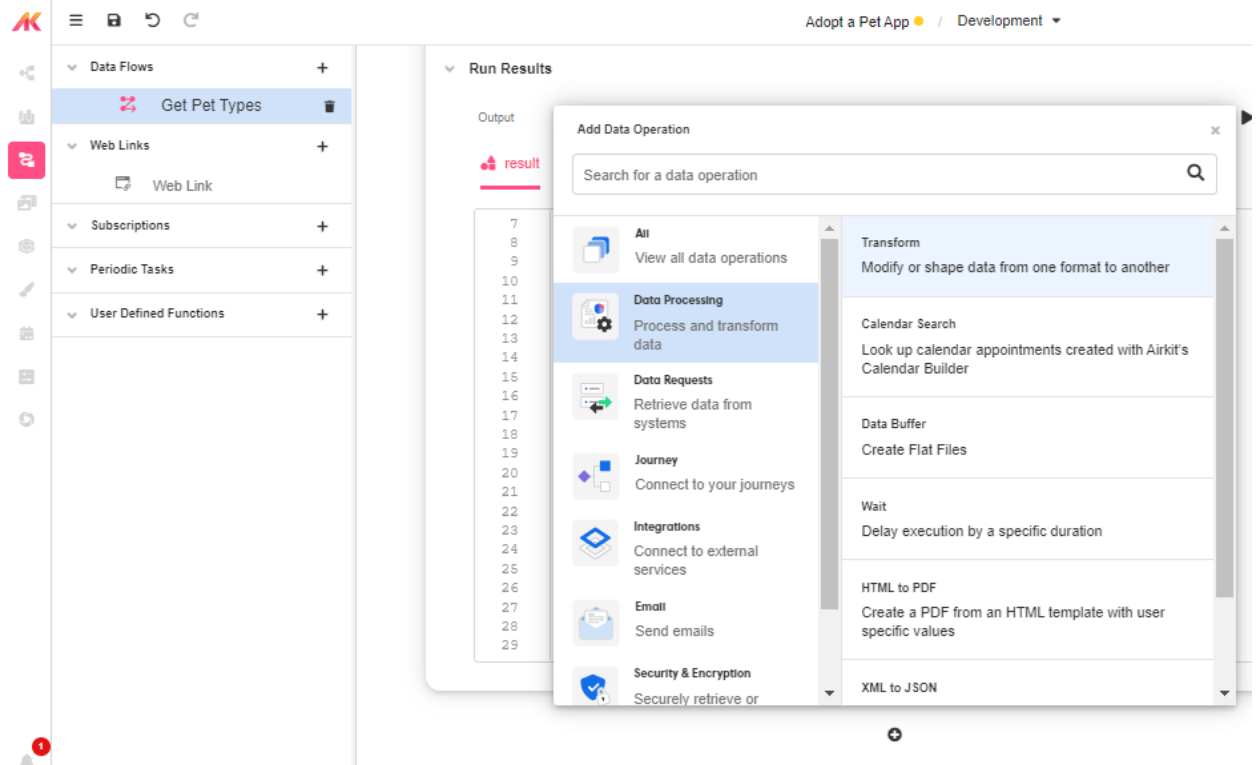
Then in Transform Expression, type "result.types".

6. Finally, in the End step, let's pass "transform" as the output.
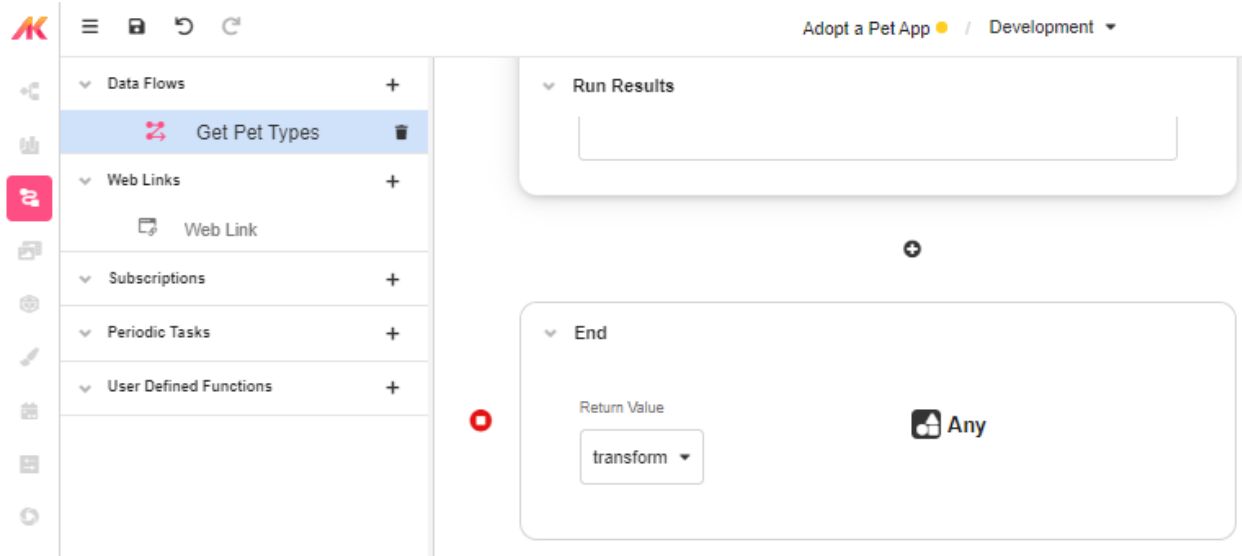
Creating the Variables

From Web Builder, you'll need to create a few Variables:

1. On the Adopt a Pet Web Flow level, go to Variables and add two of type Any and two of type Text.

2. Double click on the added Variables to rename them:
   a. The type Any Variables will be renamed to:
      i. **pet_types**
      ii. **pet_gender**

b. The type Text Variables will be renamed to:
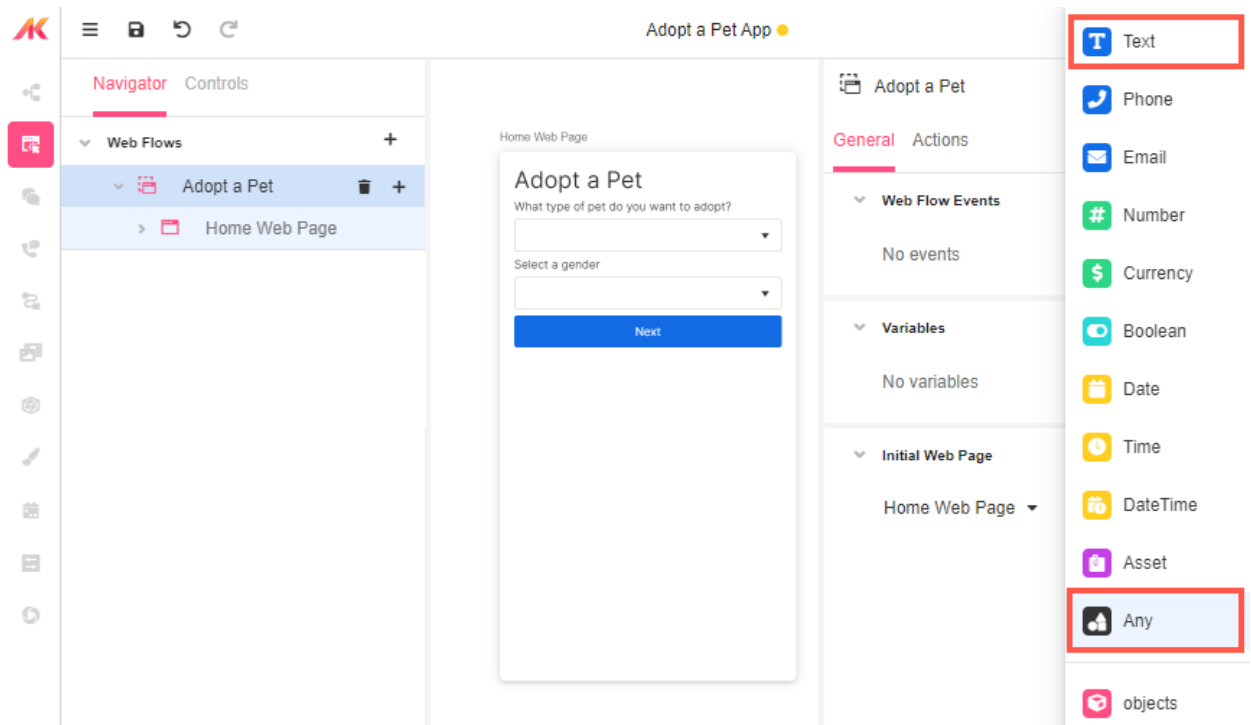   i. **pet_type_selected**
    ii. **pet_gender_selected**
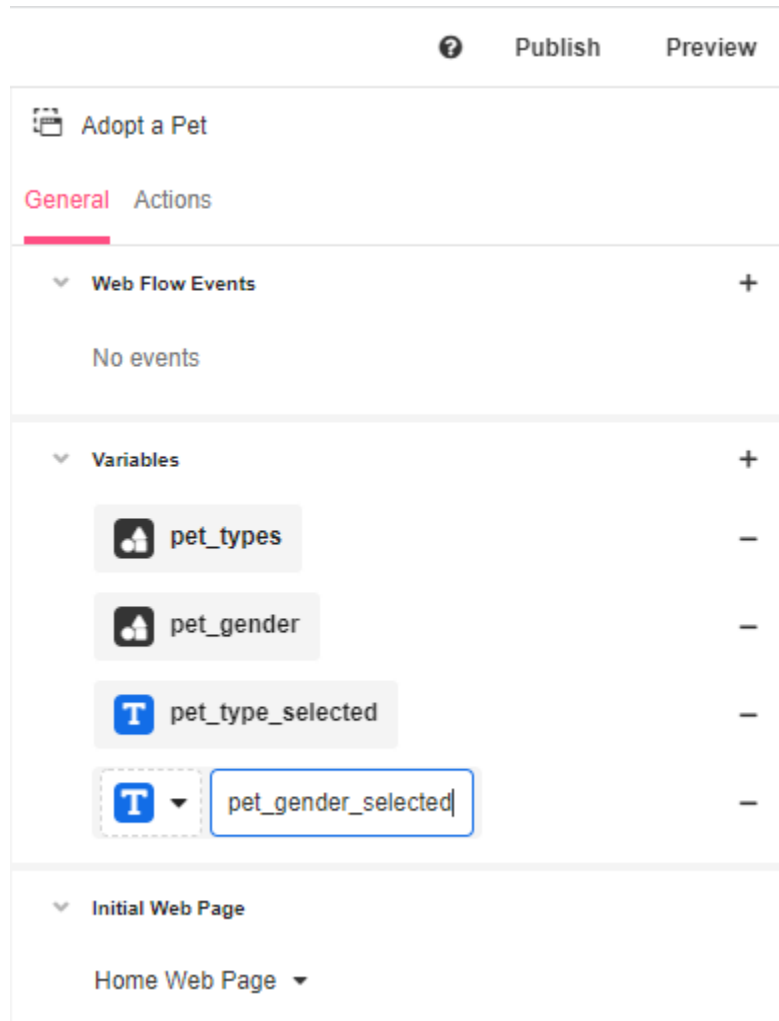
Binding Data

1. Go to Actions, click on the '+' icon next to Web Flow Added and select Run Data Flow from the Data options. This will run the data flow when the web flow is navigated to.
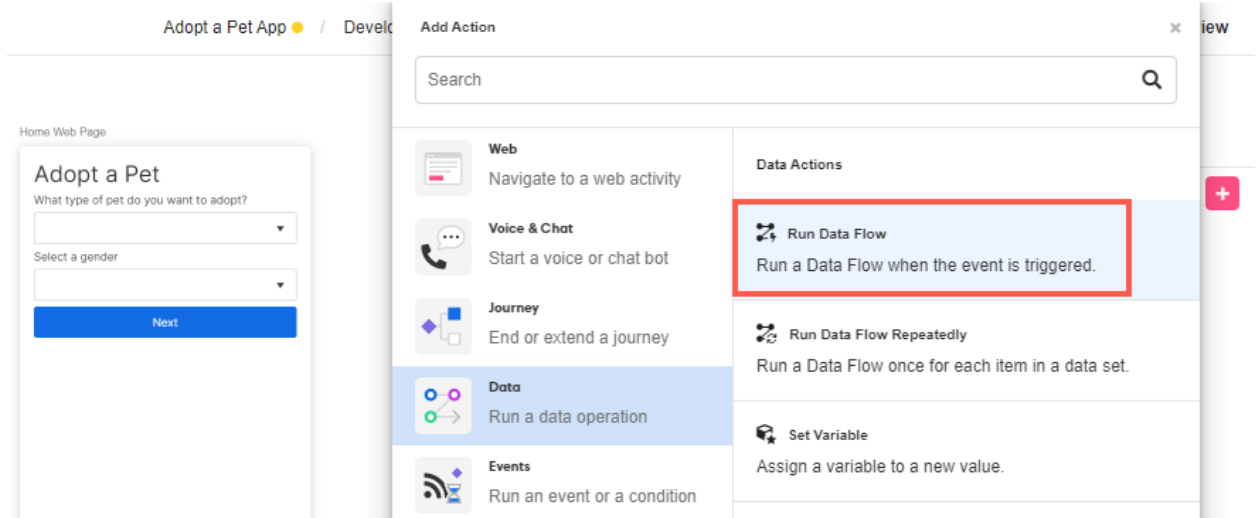
2. Then choose the Get Animal Types Data Flow you have previously created and bind it adding the **activityGroup.pet_types** expression. The output of the Data Flow will now be stored to the **pet_types** Variable.
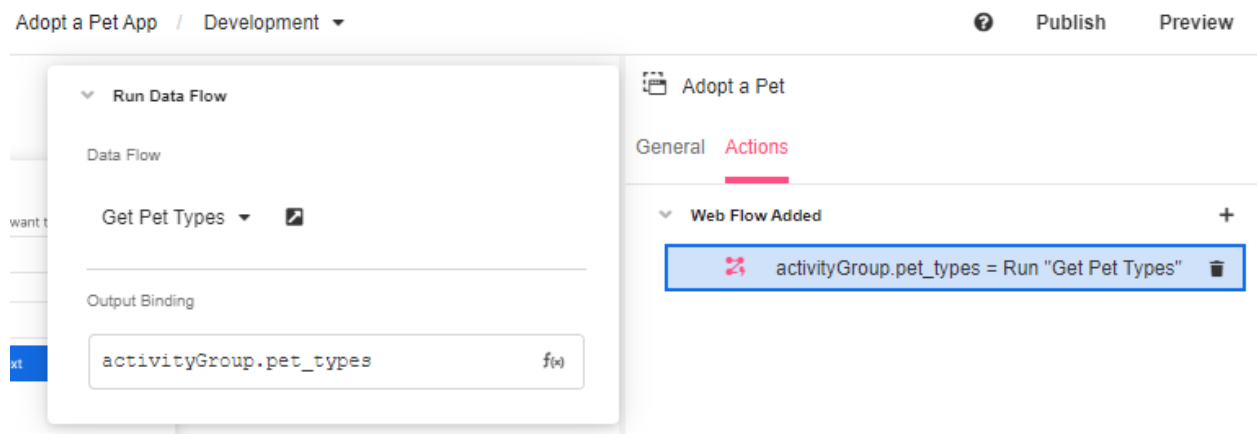

Configuring the Home Web Page Controls

Next step is to configure the Dropdown List and Button controls:

Pet type List Dropdown List

1. Either on the Stage or Tree section, click on the Pet Type List Dropdown List.
2. Go to the General tab in the Inspector section and in Data Binding add the **activityGroup.pet_type_selected** Value.
3. Then change the Type of list for Custom Expression and, in Data, add the following syntax:
FROM
  pet
IN
  activityGroup.pet_types

SELECT

   pet.name

4. Then for both Display Text and Value Text select the item Variable
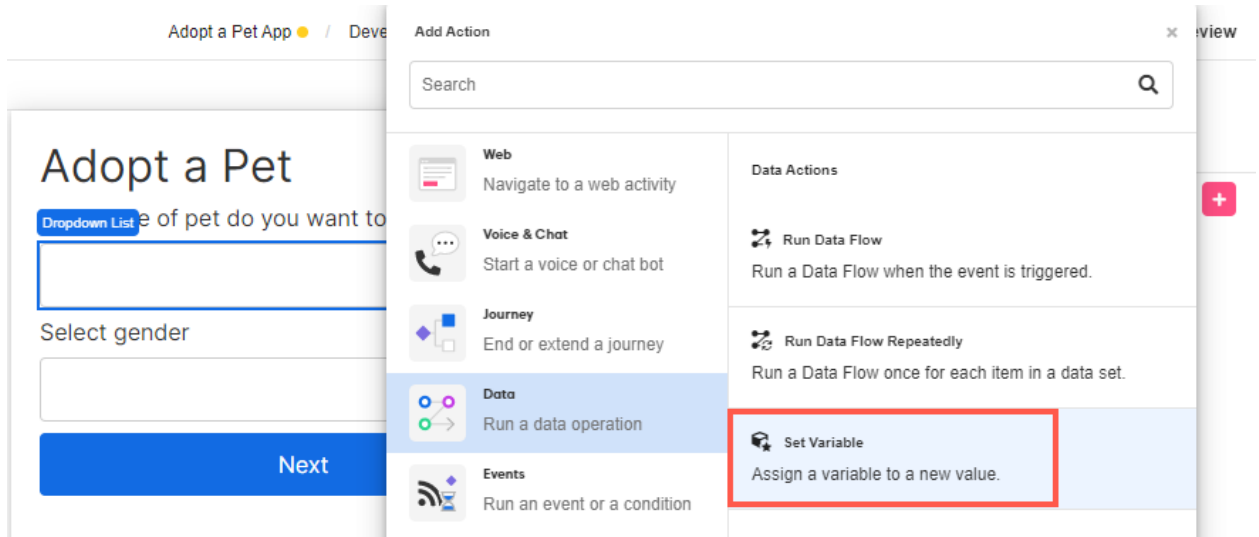

5. Now go to the Actions tab and click on the '+' icon next to Value Change to add the Set Variable action from the Data options.

6. Finally, select activityGroup.pet_gender as the Variable and add the Value as follows:

FROM
  pet
IN
  activityGroup.pet_types
WHERE
  pet.name = pet_type_selected
SELECT
  pet.genders
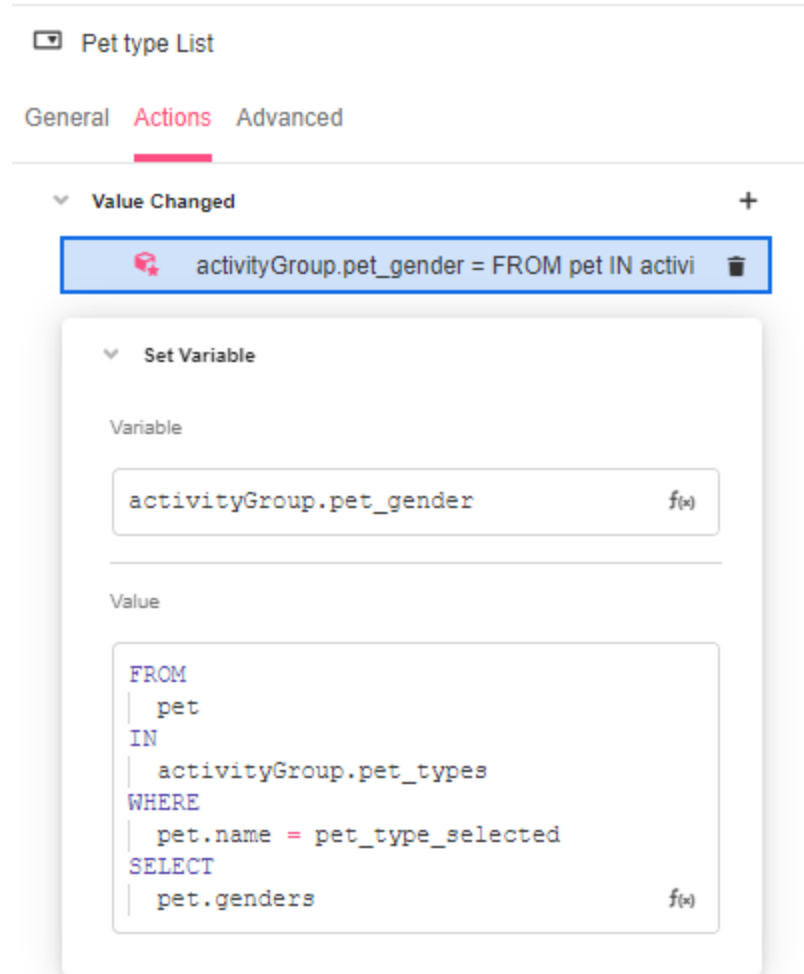
Gender List Dropdown List

1. Either on the Stage or Tree section, click on the Gender List Dropdown List.
2. Go to the General tab in the Inspector section and in Data Binding add the **activityGroup.pet_gender_selected** Value.
3. Then change the Type of list for Custom Expression and, in Data, add the following syntax:

   FLAT(

   activityGroup.pet_gender

)
4. Then for both Display Text and Value Text select the item Variable.

Gender list

General   Actions   Advanced

> Control Properties

∨ Data Binding

Value ⓘ

activityGroup.pet_gender_selected   ▼

Type of List

Custom Expression ▼

Data

```
FLAT (
    activityGroup.pet_gender
)                                    f(x)
```

Display Text

```
item                                 f(x)
```
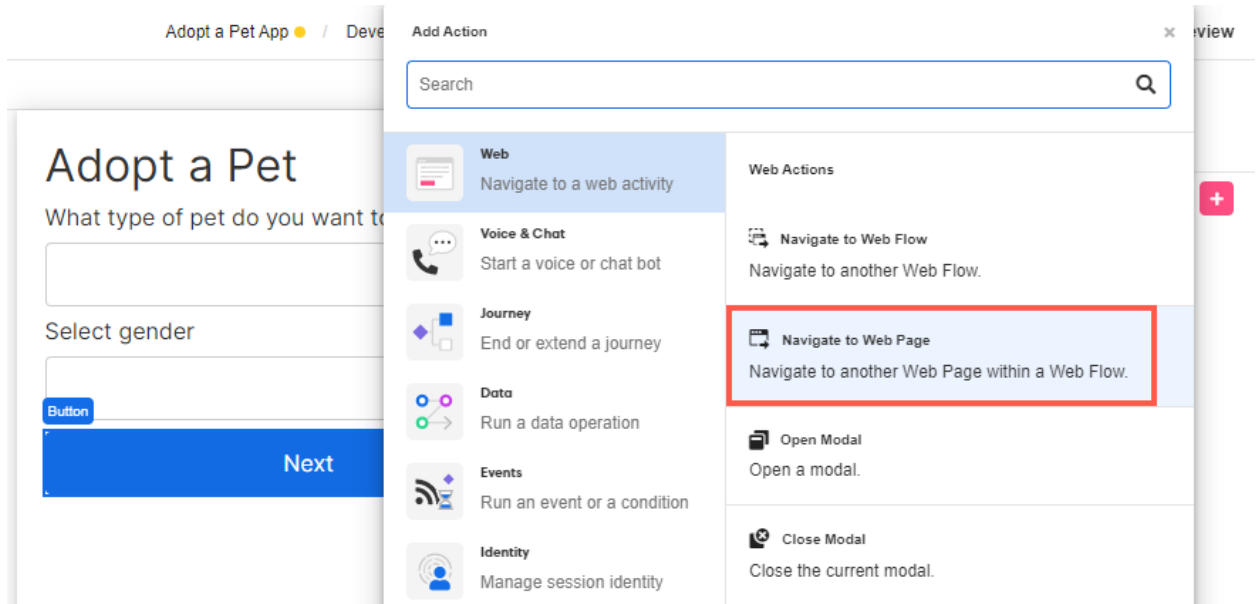
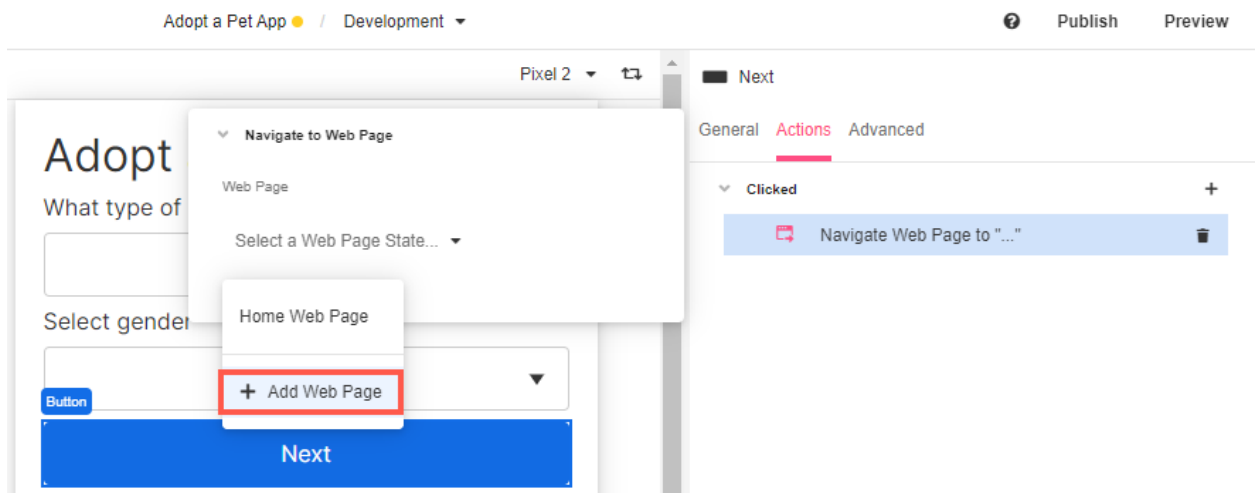Value Text

```
item                                 f(x)
```

Next Button

1. Either on the Stage or Tree section, click on the Next Button.
2. Go to the Actions tab and click on the '+' icon next to Clicked. Select the Navigate to Web Page action from the Web options.

3. Then choose Add Web Page. A new Web Page will appear under the Home Web Page for you to continue building.

4. Save the app.

Previewing the Home Web Page

Go to Preview to check that the Home Web Page of your app is running smoothly. Click on the website icon and then select a pet and a gender.

CXR v17.14

App ID 78ed4f6c-8b77-44ad-b14c-673b0db5b33c

Organization ID 229f6cf8-9ae6-4b46-a57e-a5a49c3c3126

https://app.airkit.com/u/3BgJbNT57CBj93

Adopt a Pet

What type of pet do you want to adopt?

Dog ▼

Select gender

▼

Male

Female

cxr v17.14.120