

Programming Boot Camp

# App Development and external integration with Adalo

Tokyo Institute of Technology 2023/11/3

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# What is Adalo?

- Adalo is a no-code tool from the United States. It allows you to develop applications without programming.
- You can create an app by selecting the parts you want to use from those provided and dragging and dropping them onto the screen.
- You can develop not only web apps(to be displayed in a browser), but also smartphone apps for Android and iOS. It is also possible to publish the developed application on Google Play and AppStore.
- It is a good tool for learning no-code development for the first time because it is simple and easy to understand.

## Caution

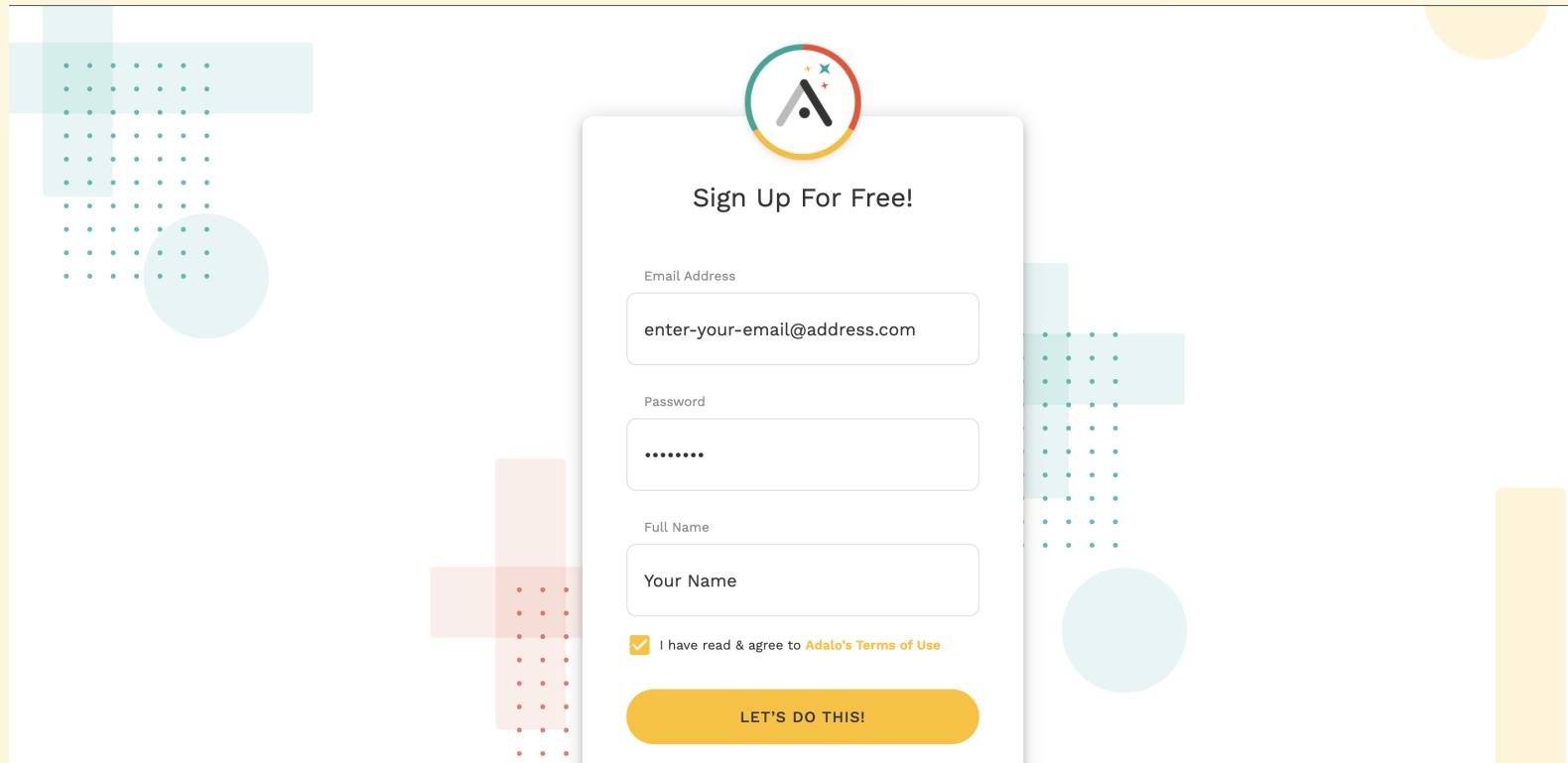
- It is difficult for multiple people to edit an Adalo application at the same time, so using it for team development in DevelopmentPhase is not recommended.
  - However, if only one person is in charge of screen development and all other members are in charge of API development, it can be used without problems.

## Example of apps created with Adalo

- Union: <https://union-jp.site/>
  - A social networking service limited to undergraduates, graduate students, university faculty and university staff developed by university students.
  - Funding of 10 million yen was raised in 2021.
    - <https://prtimes.jp/main/html/rd/p/00000001.00007669.html>
- More examples on #MadeInAdalo
  - <https://www.adalo.com/made-in-adalo>

# Adalo account registration

- Go to Adalo's SignUp page.
  - <https://app.adalo.com/signup>



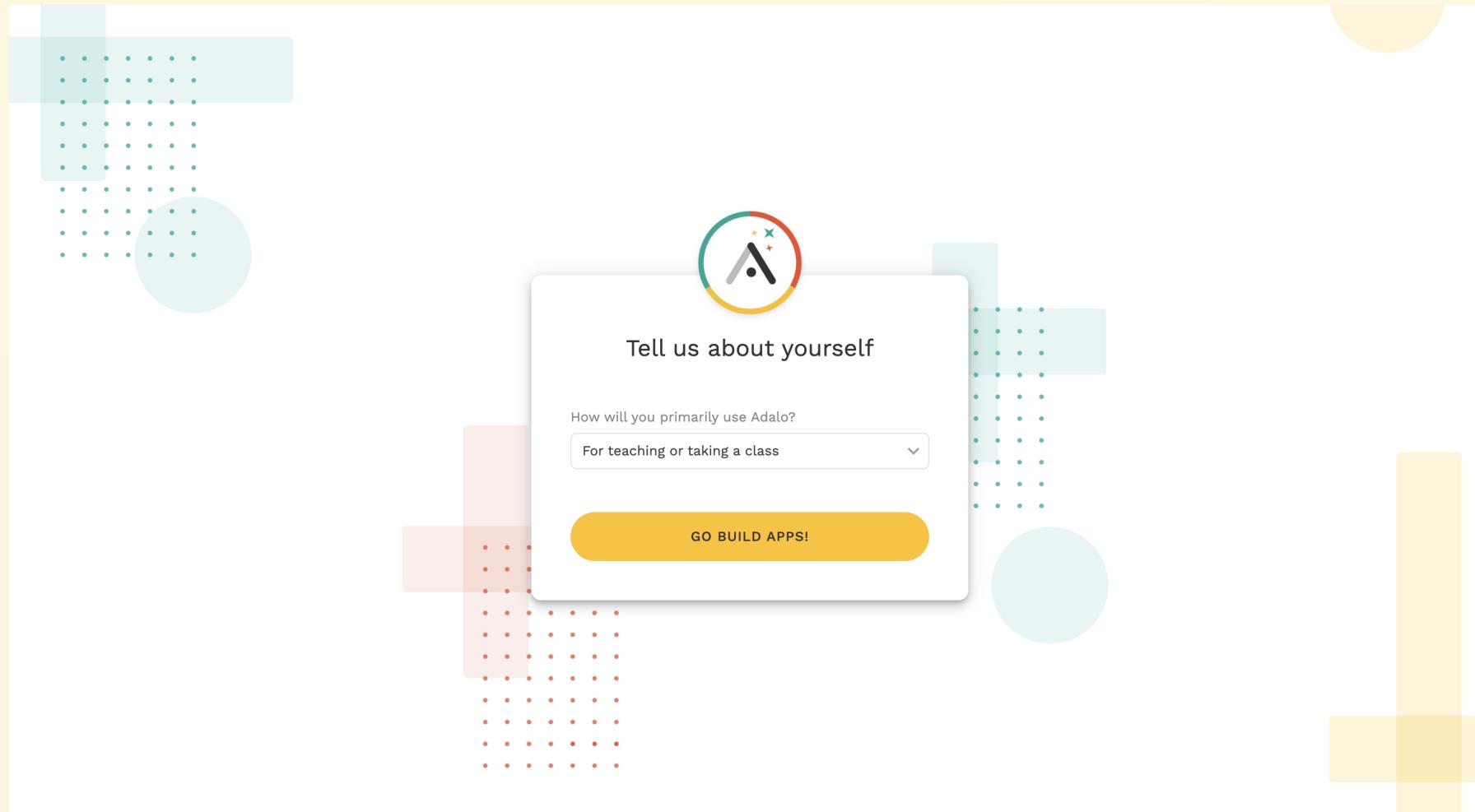
- Recommended browser is the Google Chrom

- You can register for free!
- Enter your email address, password and full name.
- Check the box to agree to the Terms of Use.
- Click the DO THIS! button to proceed.

## Reference: Limitations of the Free Plan

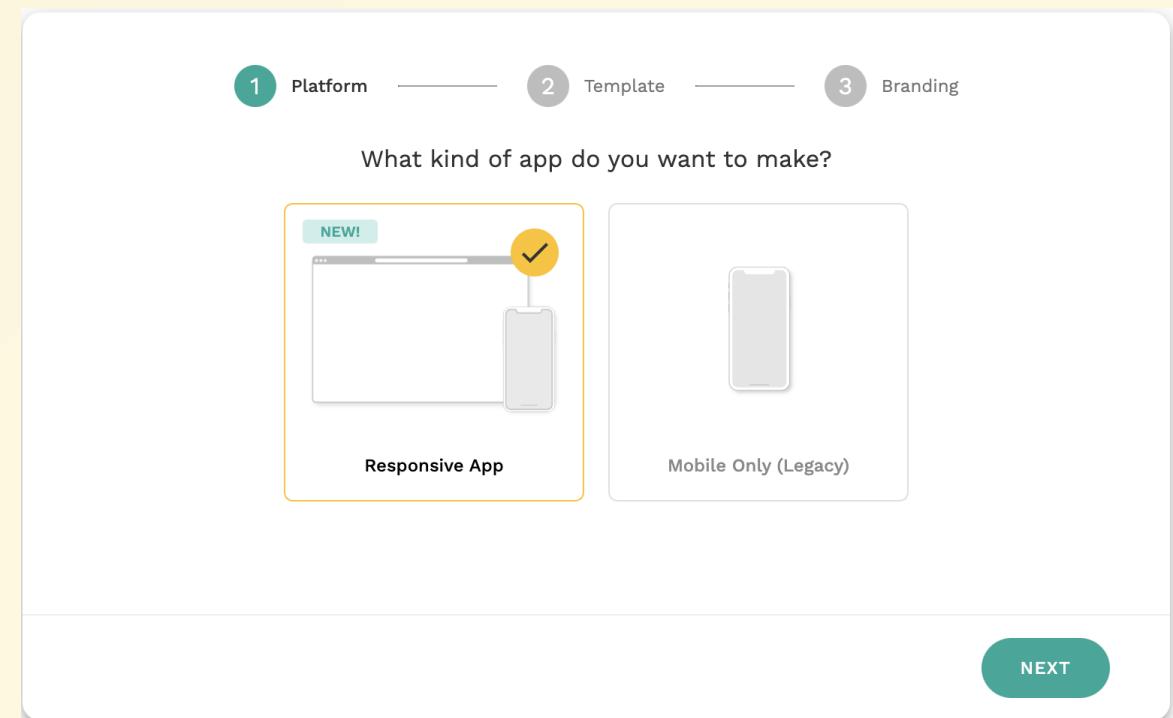
- Cannot use external integration with other applications.
    - However, trial use is available for 14 days
  - The maximum number of database records is 200.
  - App actions are limited to 1,000 times per month.
-  Consider using a Paid Plan when you actually launch your app.

- Select For teaching or taking a class and Click Go Build Apps! Button.



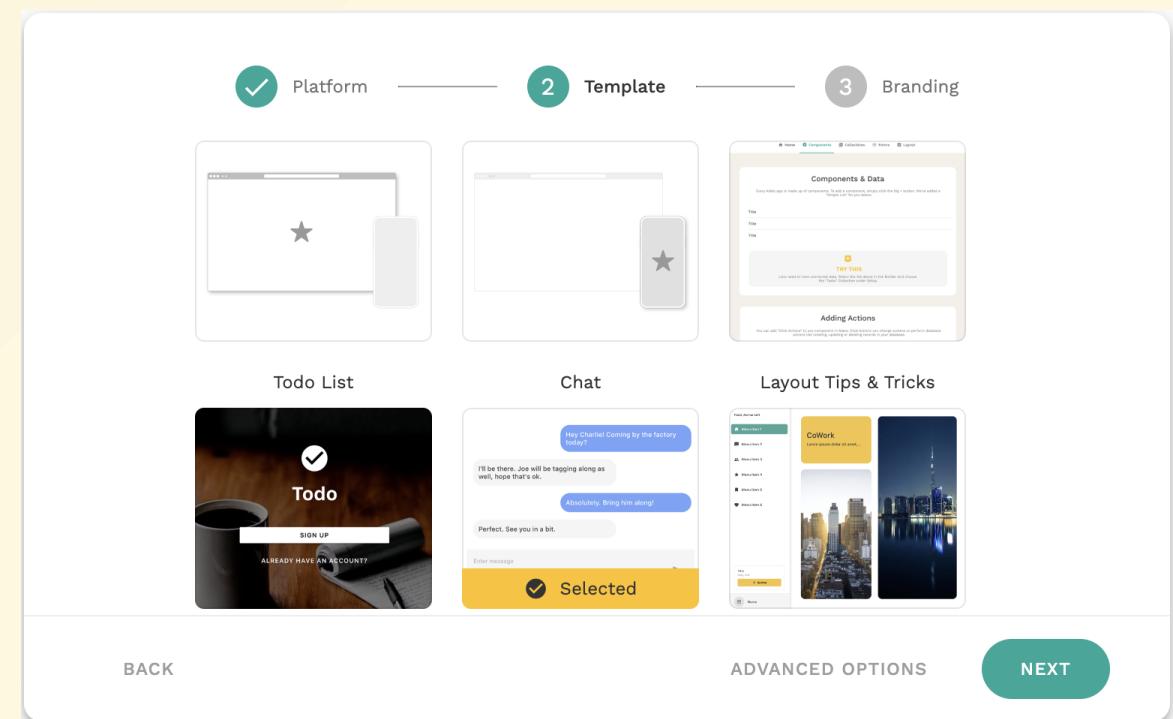
# Platform Selection

- You can select Responsive App or Mobile Only.
- Select Responsive App. It can be used by both PC and Mobile device sizes.



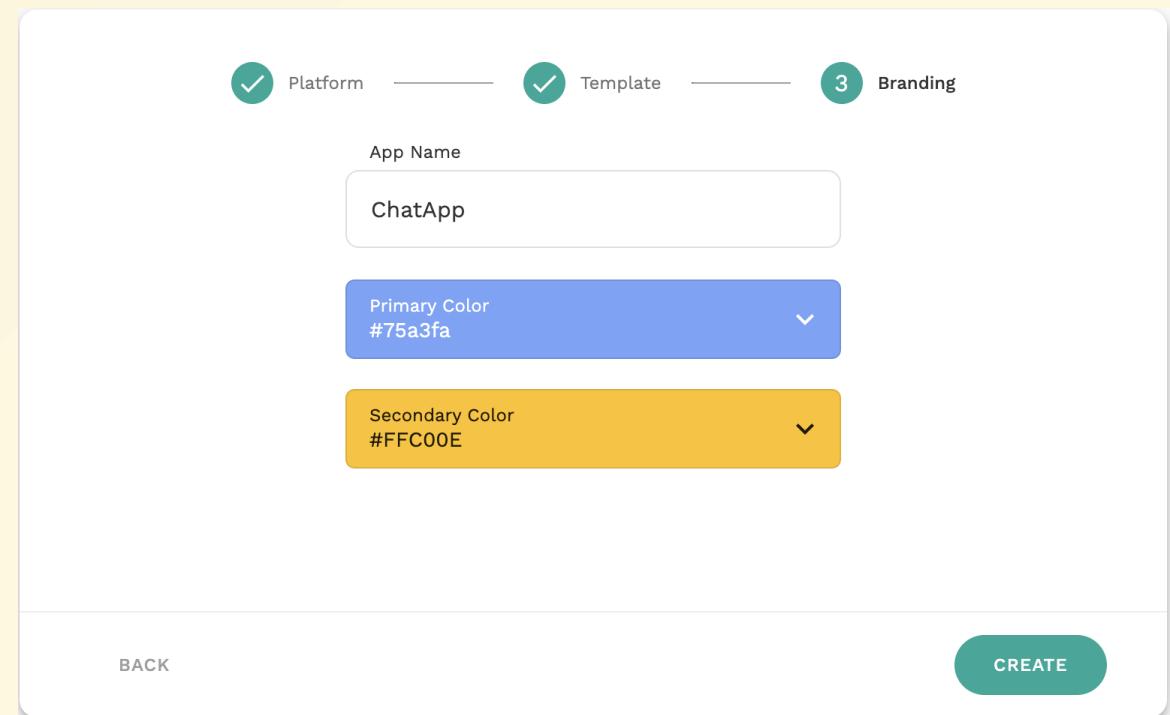
# Selecting a template

- Finished apps are provided as templates.
- This time, select Chat template.

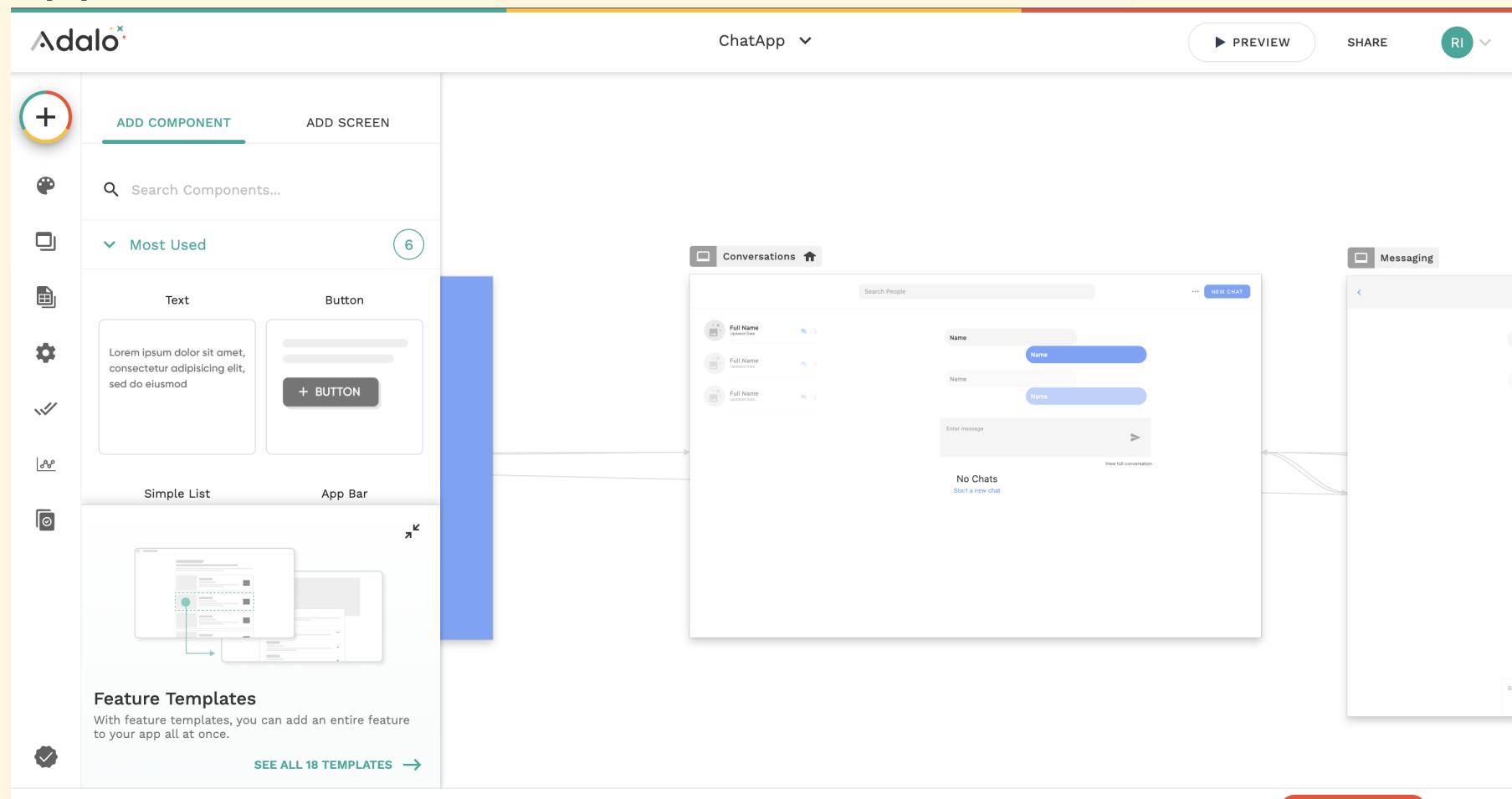


# Branding

- Enter the App Name, Primary Color, and Secondary Color.
  - Primary Color is the base color that will be used most in your app.
  - Secondary Color is the color for important parts (e.g. register button)

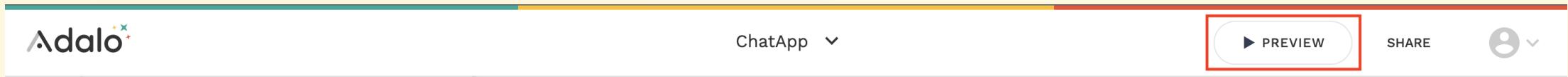


- When you see Adalo's admin panel like this, you are good to go!
- From now on, we will use this admin panel to develop our application.

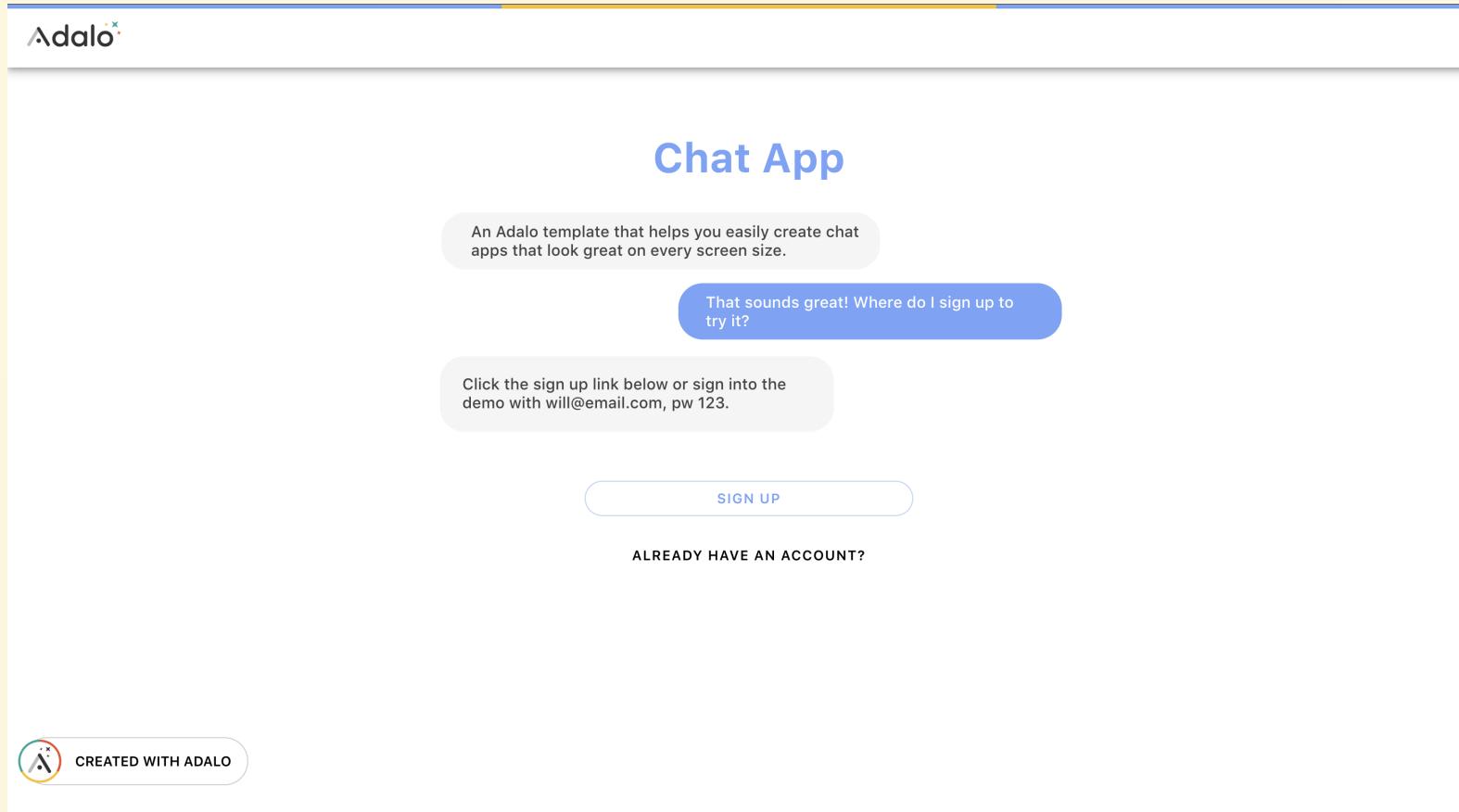


# Try template application

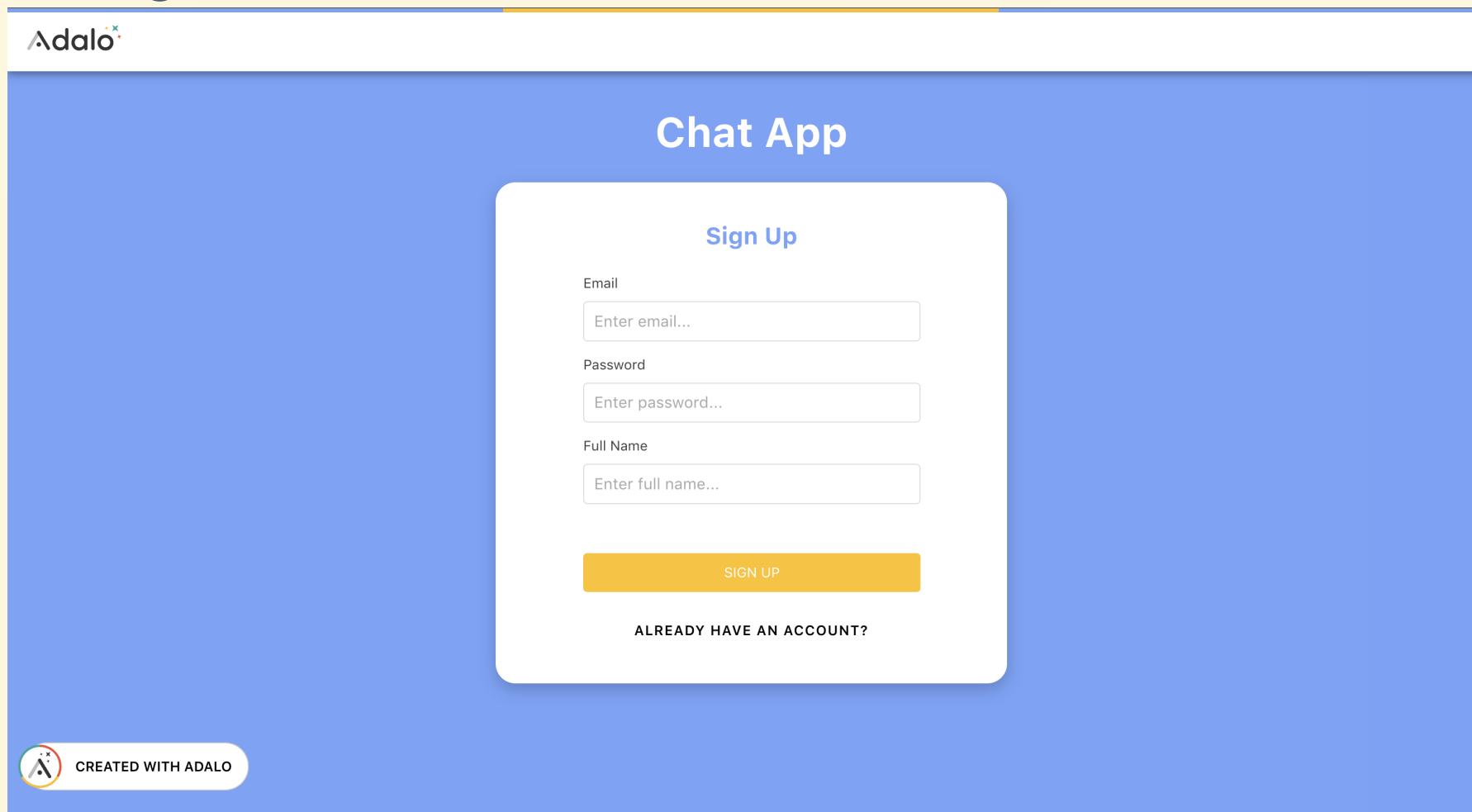
- First of all, try to operate the Chat app template to see how the application created by Adalo works.
- Click the Preview button in the upper right corner of the screen



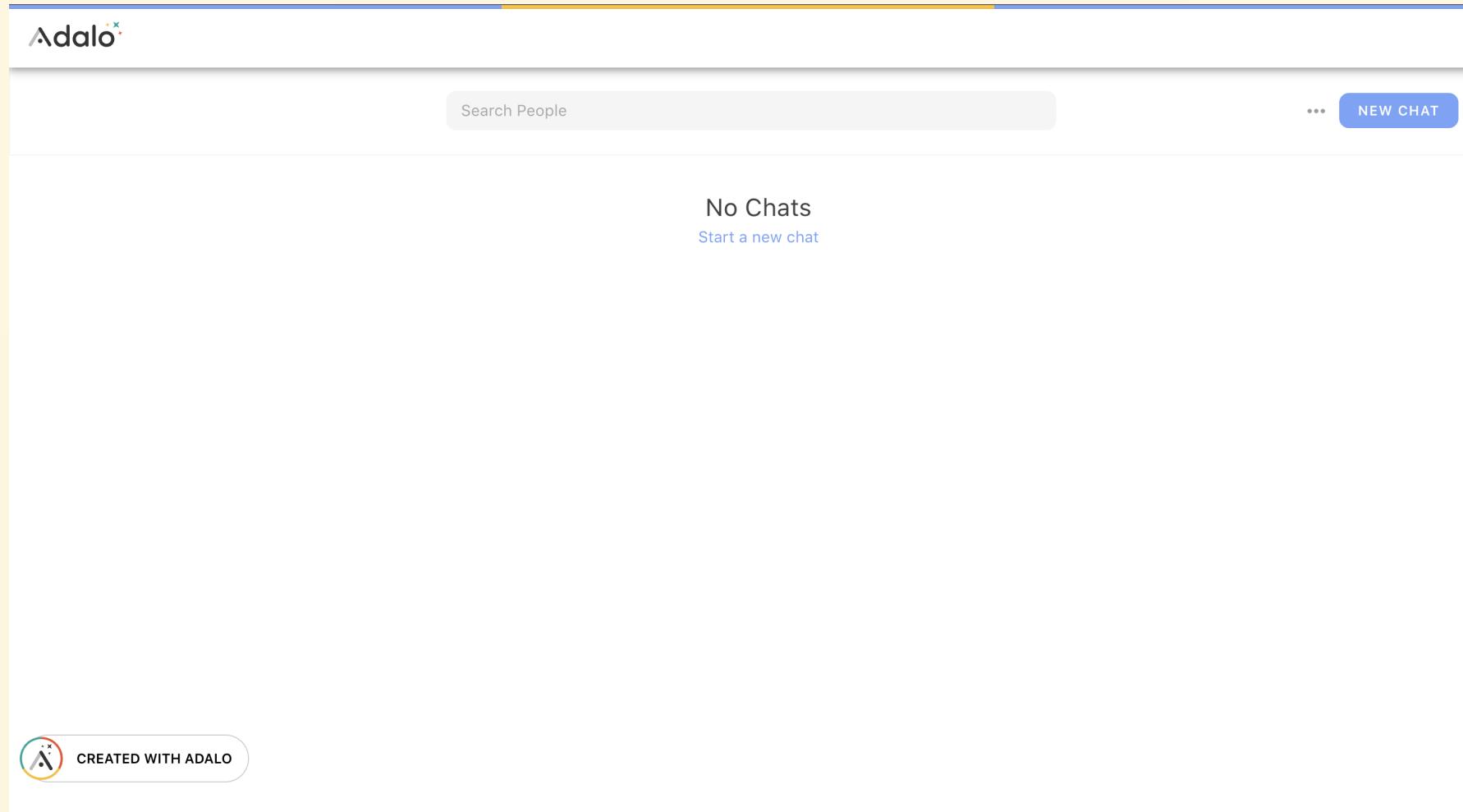
- The preview screen will be launched.
- Let's operate the Chat application together!



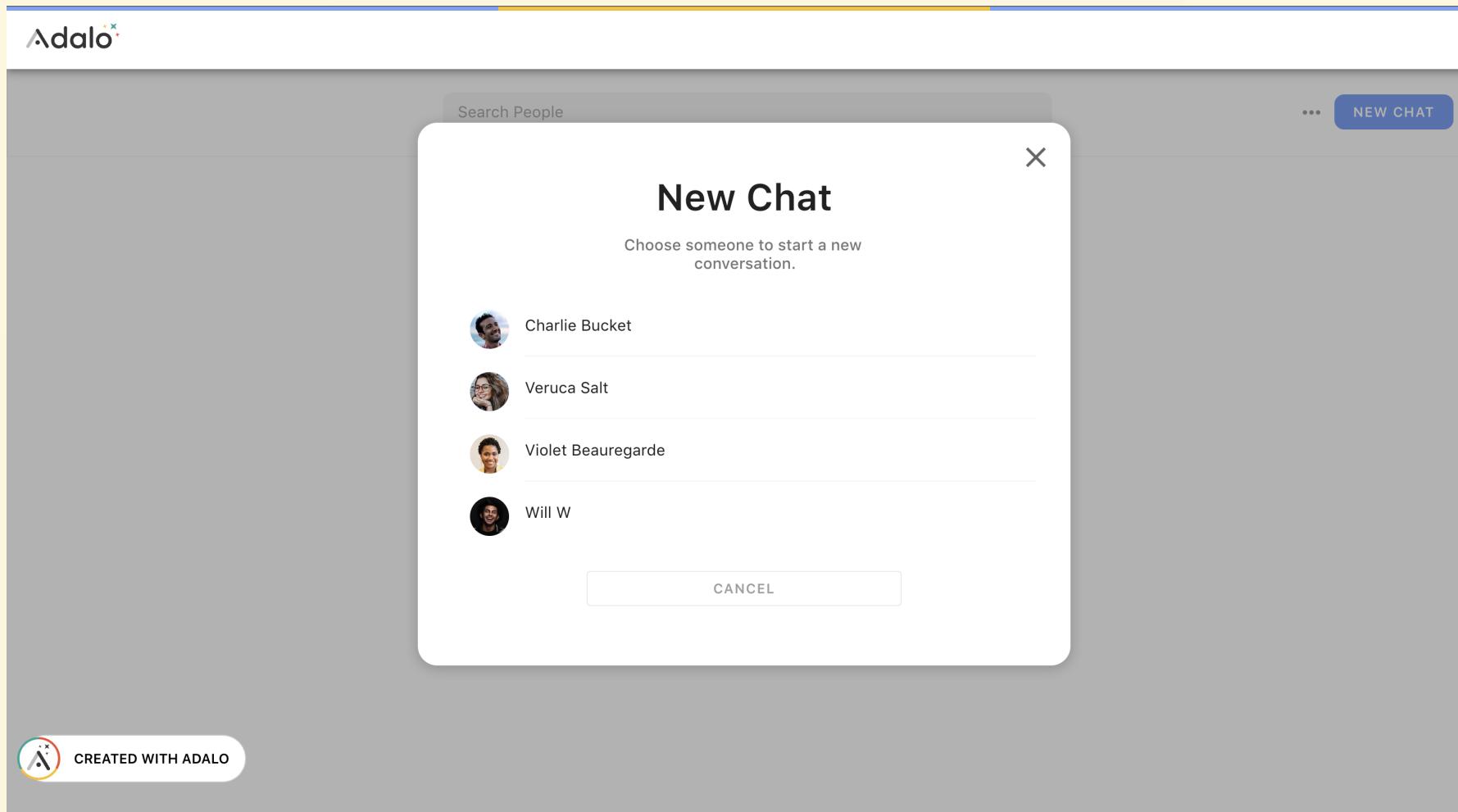
- Sign up.
  - Enter your Email and Password (remember them so that you can use again later).



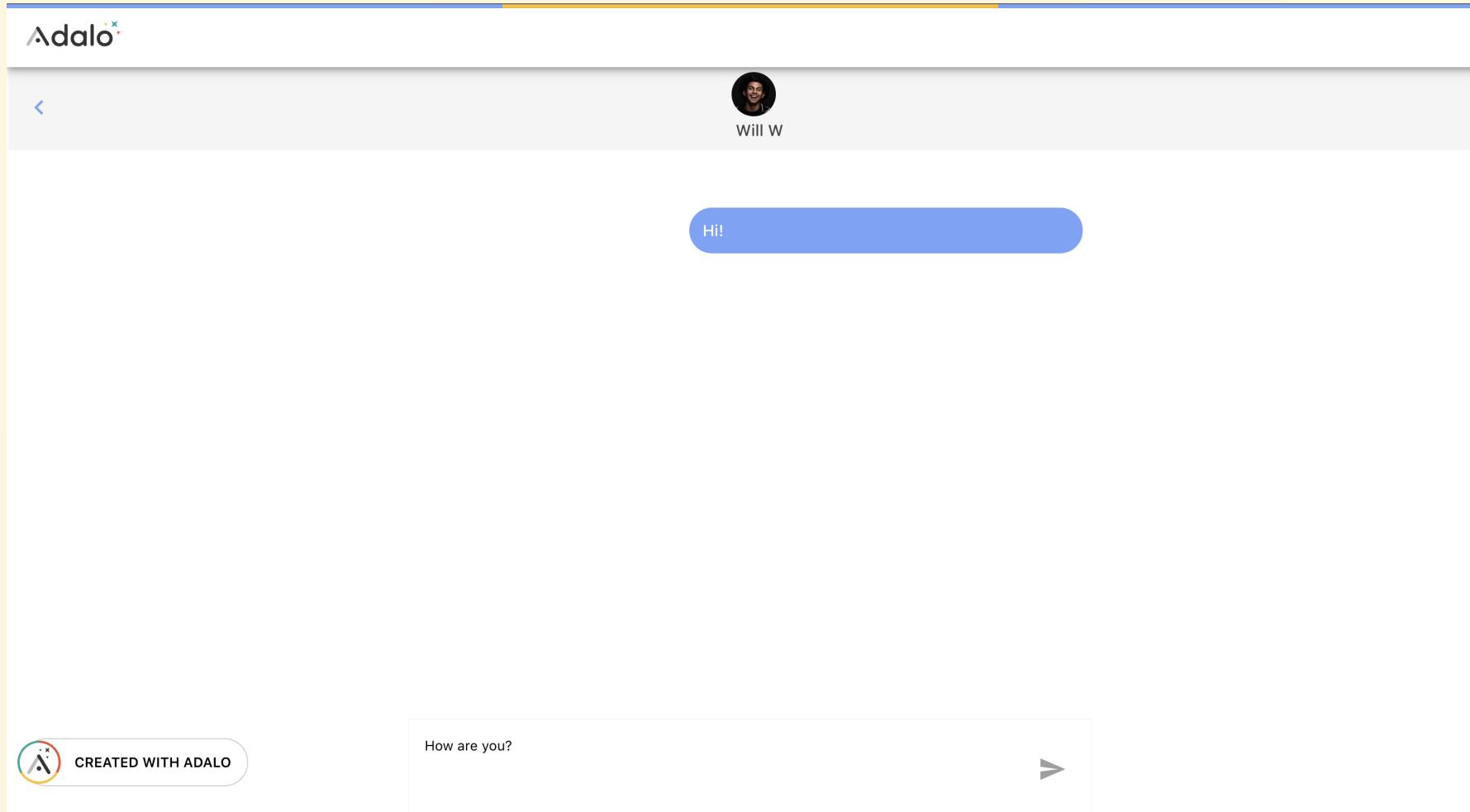
- The list is empty because no conversation has taken place yet
- Press the NEW CHAT button at the top right corner of the screen.



- You can see the list of sample users.
- Click Will W.



- You can send messages.



There are other features as below.

- Profile Photo Update
- Password Change
- Logout
- Log in
  - You can log in as the sample user Will W by entering the following.
    - Email: [will@email.com](mailto:will@email.com)
    - Password: 123

- In addition to the Chat we tried this time, there are several other templates available.
- If there is one that is similar to the application you want to build, you may be able to use that template to boost your development. When you have time, try out other templates.

# Overview of application development with Adalo

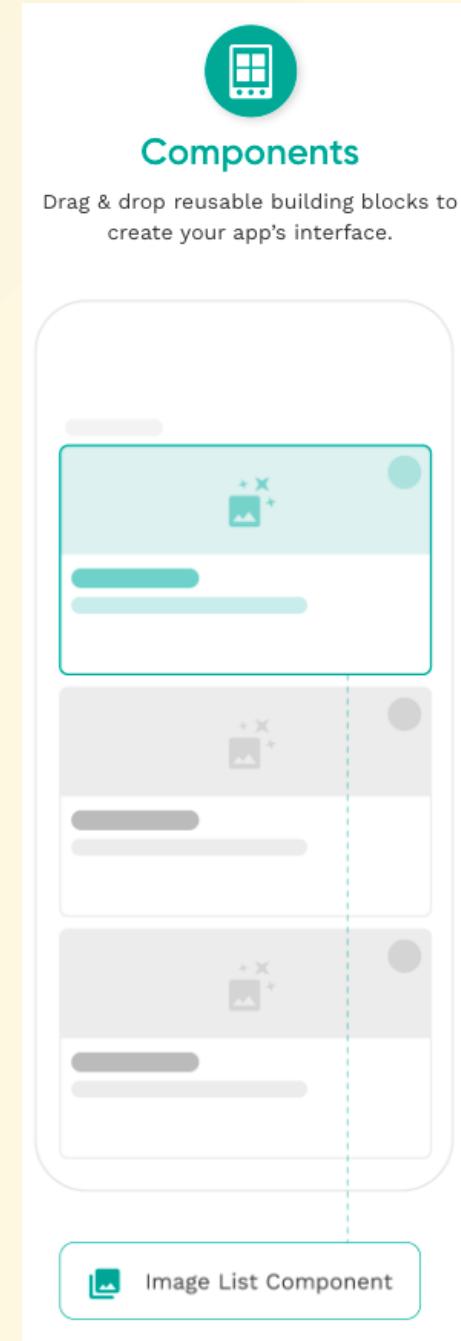
Next, take a look at how to develop an app with Adalo.

# Three basic concepts

- Let's learn the following three basic concepts of Adalo.
  - Components
  - Database
  - Actions

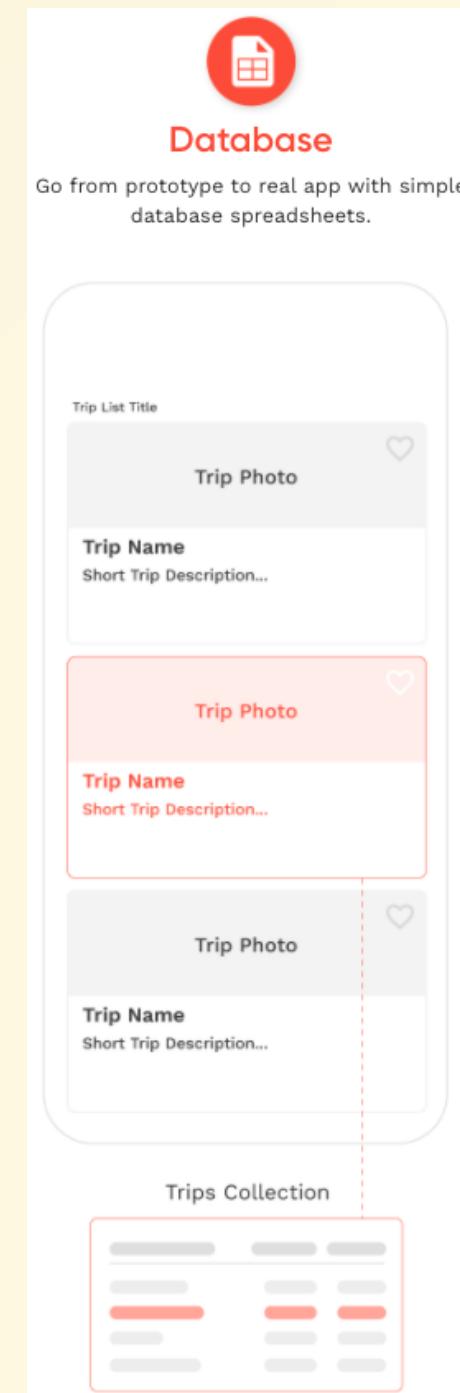
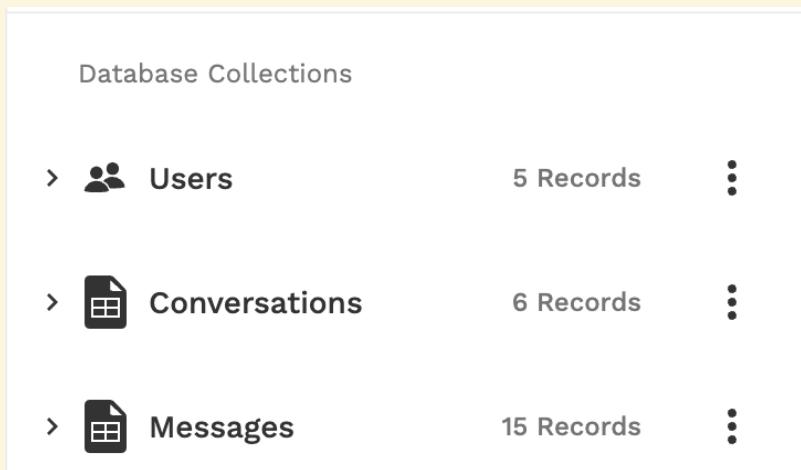
# Components

- Elements that are placed on the screen to create a user interface.
- Examples:
  - Lists
  - Buttons
  - Text
  - Image



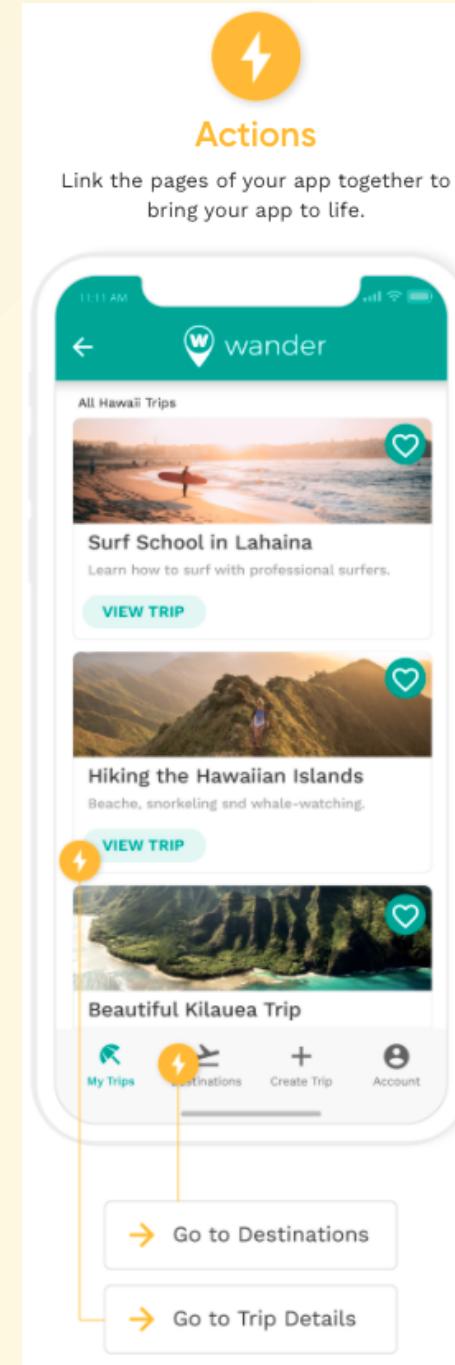
# Database

- A set of organized data.
- Data can be registered, read (displayed), updated, and deleted.
- Example: In the case of the Chat application



# Actions

- This is used to specify what to do when a specific component is clicked.
- Example :
  - Transition to another screen.
  - Registering, updating, and deleting data in the database.



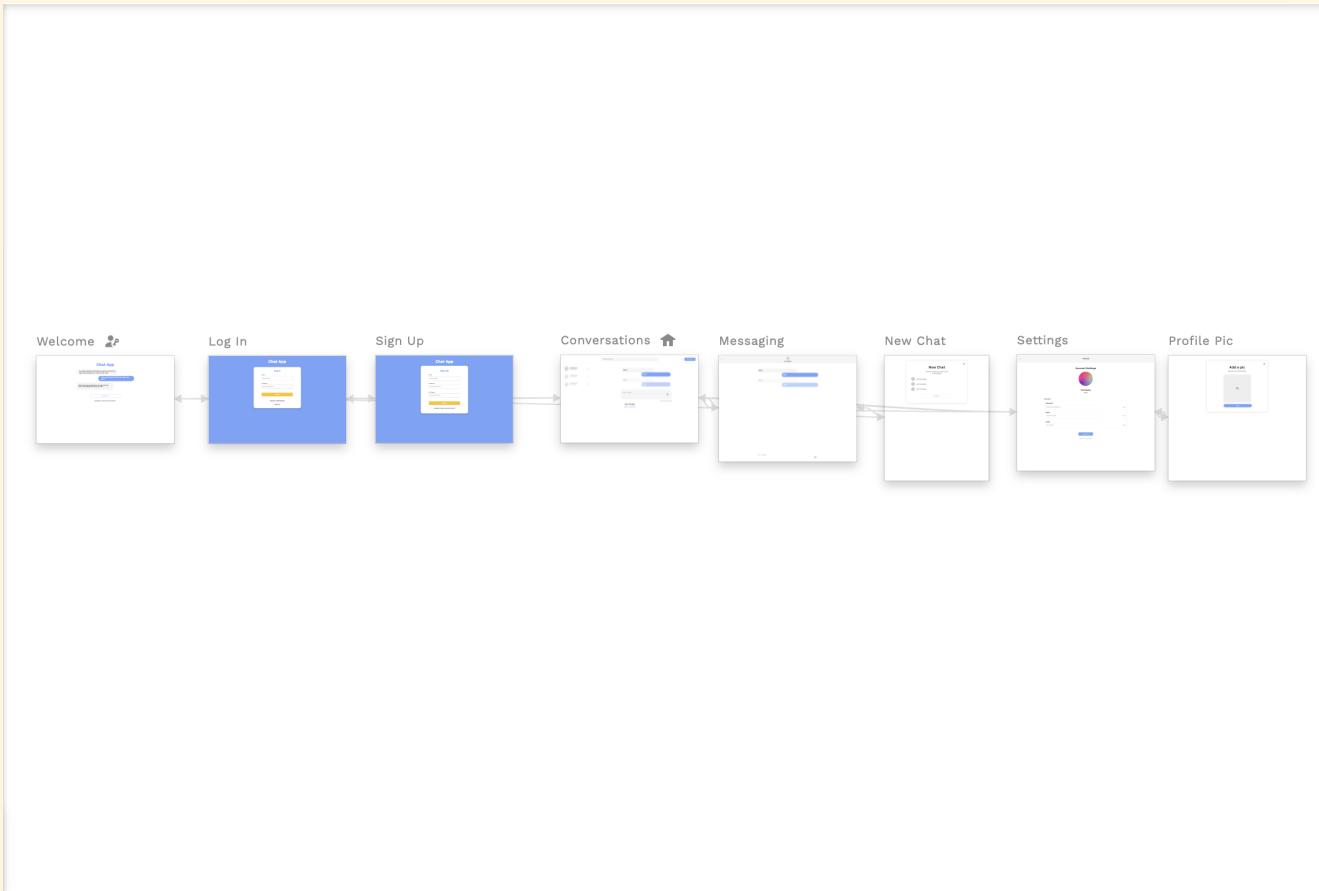
# Explanation of Adalo's features

Next, take a look at the features available in Adalo's admin panel.

The screenshot shows the Adalo admin panel interface. On the left, there is a sidebar titled "ADD COMPONENT" containing various UI element components like Text, Button, Simple List, App Bar, Image, and Form. A search bar is also present. In the center, there is a "ChatApp" project view showing a workflow diagram with screens: Welcome, Log In, Sign Up, Conversations, Messaging, New Chat, Settings, and Profile Pic. Arrows indicate the flow between these screens. At the bottom, there is a status bar showing "52% of free records used" and a red "UPGRADE NOW" button.

# Canvas

- A work area for creating screens.
- Elements can be selected and moved by dragging and dropping.



# Left Toolbar

Let's learn each function of the left toolbar.





## Add Panel

- This allows you to select a component or screen to add to your app.
- Feature templates are also available.

The screenshot shows the Figma Add Panel interface. It features two main tabs at the top: "ADD COMPONENT" (selected) and "ADD SCREEN".

**ADD COMPONENT:**

- Search bar: "Search Components..."
- Category: "Most Used" (6 items)
- Components displayed:
  - Text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod"
  - Button: "+ BUTTON"
  - Simple List
  - App Bar
- Bottom buttons: "ADD FEATURE TEMPLATE" (with a checkmark icon) and "ADD SCREEN" (disabled).

**ADD SCREEN:**

- Search bar: "Search Screens..."
- Category: "Most Used" (2 items)
- Screens displayed:
  - Blank Desktop First
  - Blank Mobile First
- Other categories listed:
  - Layout (4 items)
  - Lists (16 items)
  - Detail (5 items)
  - Create (3 items)
  - Account Settings (1 item)
- Bottom buttons: "ADD FEATURE TEMPLATE" (with a checkmark icon) and "ADD COMPONENT" (disabled).



## Branding

- You can change colors and fonts.

**Branding**

Colors

- Primary Color #75a3fa
- Secondary Color #FFC00E
- Default Background Color #FFFFFF
- Default Text Color #424242

Fonts

Headings

Body

Need more cool fonts? We got you!  
Try out our custom fonts to see which one will work best for your app

START FREE TRIAL



## Screens

- List of screens and their configurations.

The screenshot shows a user interface for managing application screens and components. On the left, there's a sidebar with icons for adding screens, components, shapes, text, and other elements. Below this is a list of screens: Conversations, Log In, Messaging, New Chat, Profile Pic, Settings, Sign Up, and Welcome. At the bottom of this list is a button labeled '+ ADD SCREEN'. To the right of the screen list is a detailed view of the 'Log In' screen. It includes sections for 'Components' (Text 'Chat App', Shape 'Card'), 'Actions' (Text 'Log In', Button 'Button'), and 'Available Data' (Form 'Form'). There are also buttons for '+ ADD COMPONENT' and a checkmark icon at the bottom.

Normal Screen  
Log In

Components

Text Chat App

Shape Card

Text Log In

Button Button

Button Button

Form Form

+ ADD COMPONENT

Actions

Available Data

+ ADD SCREEN



## Database

- Displays the structure of the database and the data stored in it.
- Collection: A collection of data that has the same properties.

The screenshot shows a database interface with a sidebar on the left and a main table view on the right.

**Left Sidebar:**

- Database Collections:** A list of collections including **Users** (5 Records), **Email**, **Password**, **Username**, **Full Name**, **Messages**, **Profile Image**, **Conversations**, **Friends**, and **Active Conversation**.
- + ADD PROPERTY** button.
- Conversations**: 6 Records.
- Messages**: 15 Records.
- + ADD TO DATABASE** button.

**Main View:**

**Users** table:

	A Email	>Password	A Username	A Full Name	Messages
<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	2 messages
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	2 messages
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	2 messages
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	1 message
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	8 messages

Table headers: **Email**, **Password**, **Username**, **Full Name**, **Messages**.  
Action buttons: **+ ADD USER**, **Shield**, **Upload**, **Download**, **Sync**, **Search**.



## Settings

- You can configure app name, icon etc.
- You can configure display settings for the canvas.
- You can set access permissions to the app.
- You can copy or delete an app.
- You can set api key for geolocation feature.

Icon	Setting
+	App Settings
paint palette	Display Settings
square	App Access
document	Copy / Delete
gear	API Keys
checkmark	
refresh	
square with circle	



## Publish

- You can publish your apps (paid plan required).

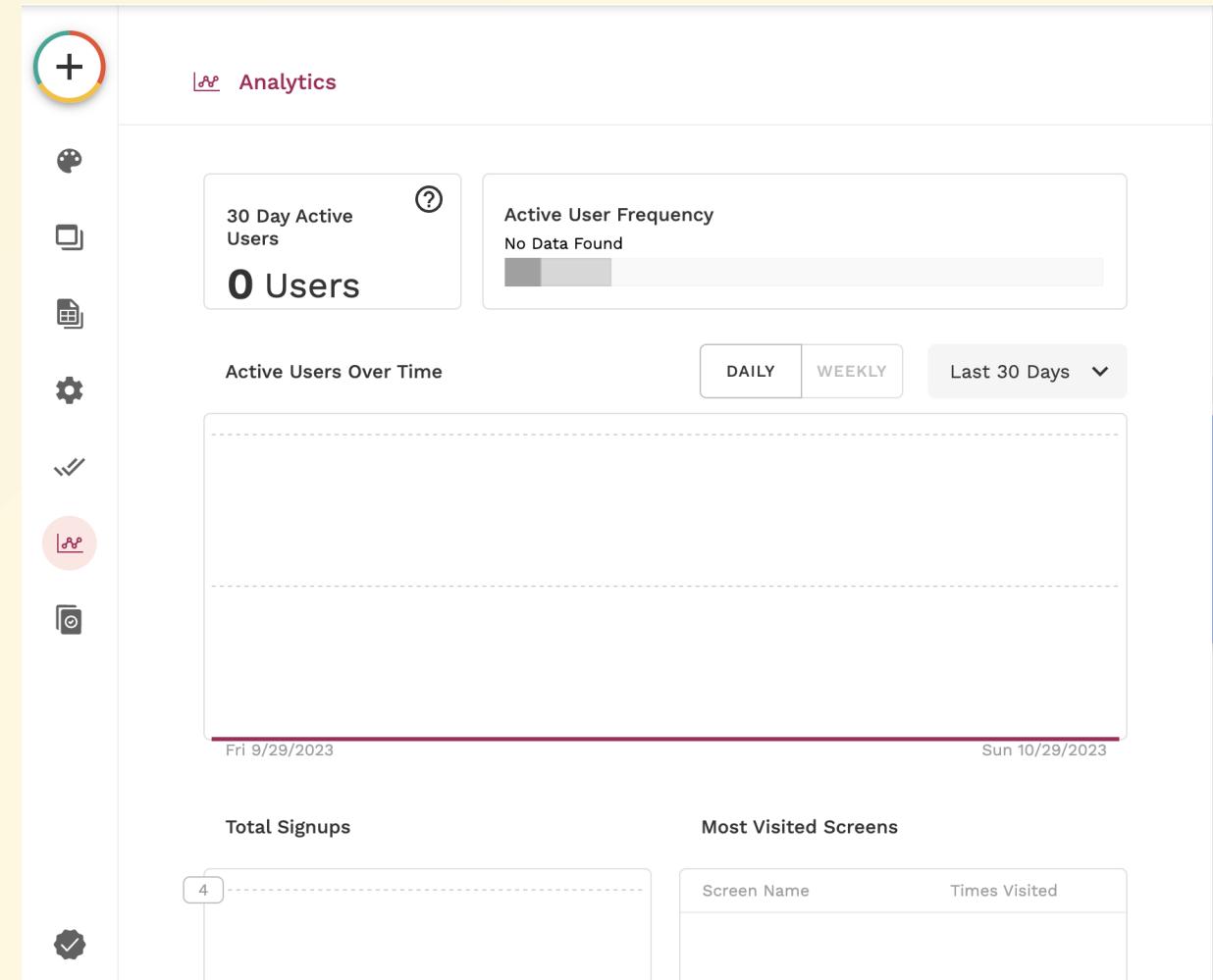
The screenshot shows a vertical navigation menu on the left with icons for adding a new item, a palette, a document, a gear (settings), a checkmark, a double arrow (sync), and a square with a circle (refresh). To the right, there's a header with a green checkmark and the word "Publish". Below it is a callout box with the text "Upgrade to Publish your Apps! Switch to a paid plan to start sharing your apps with the world." and a green "UPGRADE" button. A list of publishing options follows:

- > Web App
- > Android App
- > iOS App



## Analytics

- Show usage analysis report.





## Version History

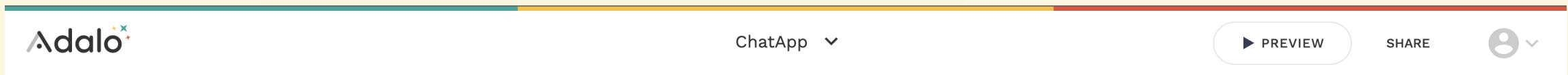
- You can create version history and restore version (paid plan required).

The screenshot shows a mobile application interface for managing version history. On the left, a vertical sidebar contains several icons: a plus sign inside a circle, a paint palette, a square with rounded corners, a building with stars, a gear, a checkmark, a person icon, and a document with a checkmark. The main content area has a header with a camera icon and the text "Version History". A question mark icon is in the top right corner. Below the header, there's a section titled "Design Versions" with a dropdown arrow and a count of "2/10". A promotional box for a "Free Trial | 14 Days Left" offers to "Create and restore versions of your app's design without affecting your database, user data, or existing native builds." It includes a green "UPGRADE NOW" button. A large green button at the bottom says "+ CREATE DESIGN VERSION". The main list shows two entries: "Second Version" (Created by Ryo on Nov 4 11:29 pm, "something changed.") and "Initial Version" (Created by Ryo on Nov 4 11:28 pm, "Nothing changed."). Each entry has a three-dot menu icon on the right.

Version	Created By	Created At	Notes
Second Version	Ryo	Nov 4 11:29 pm	something changed.
Initial Version	Ryo	Nov 4 11:28 pm	Nothing changed.

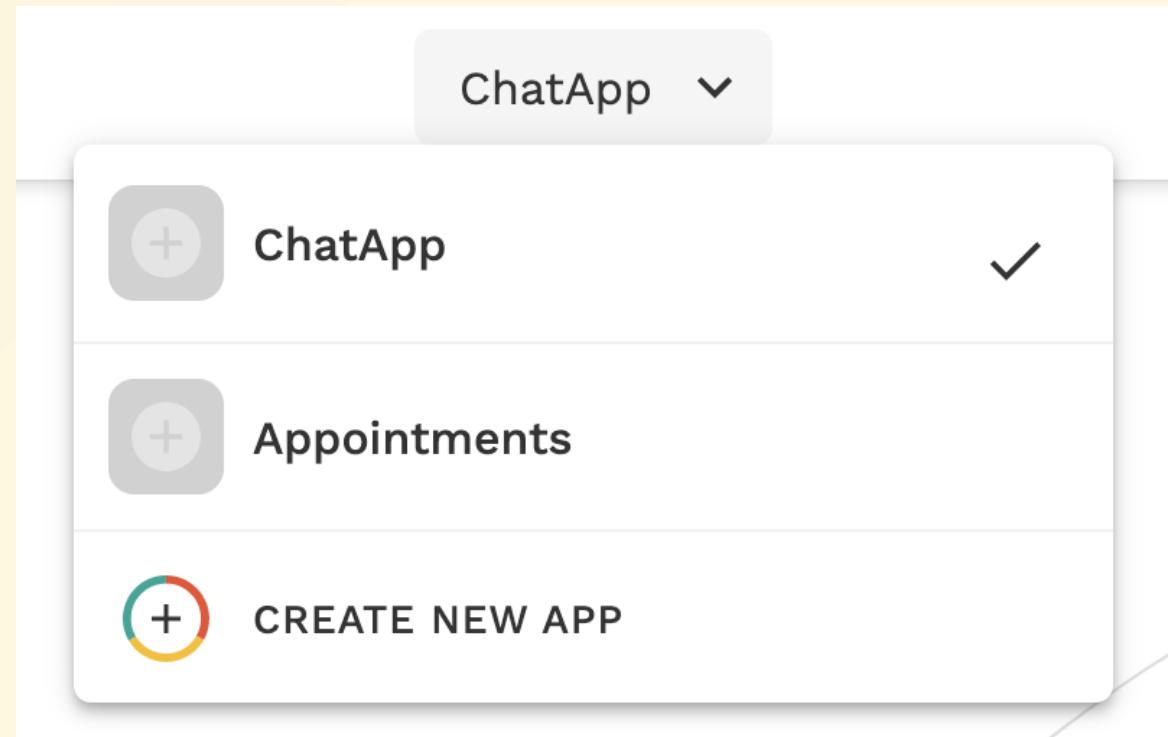
# Top Bar

Let's learn each function of the top toolbar.



## App Switcher

- Displays the name of the opened app.
- You can switch to other app.
- New apps can be added.



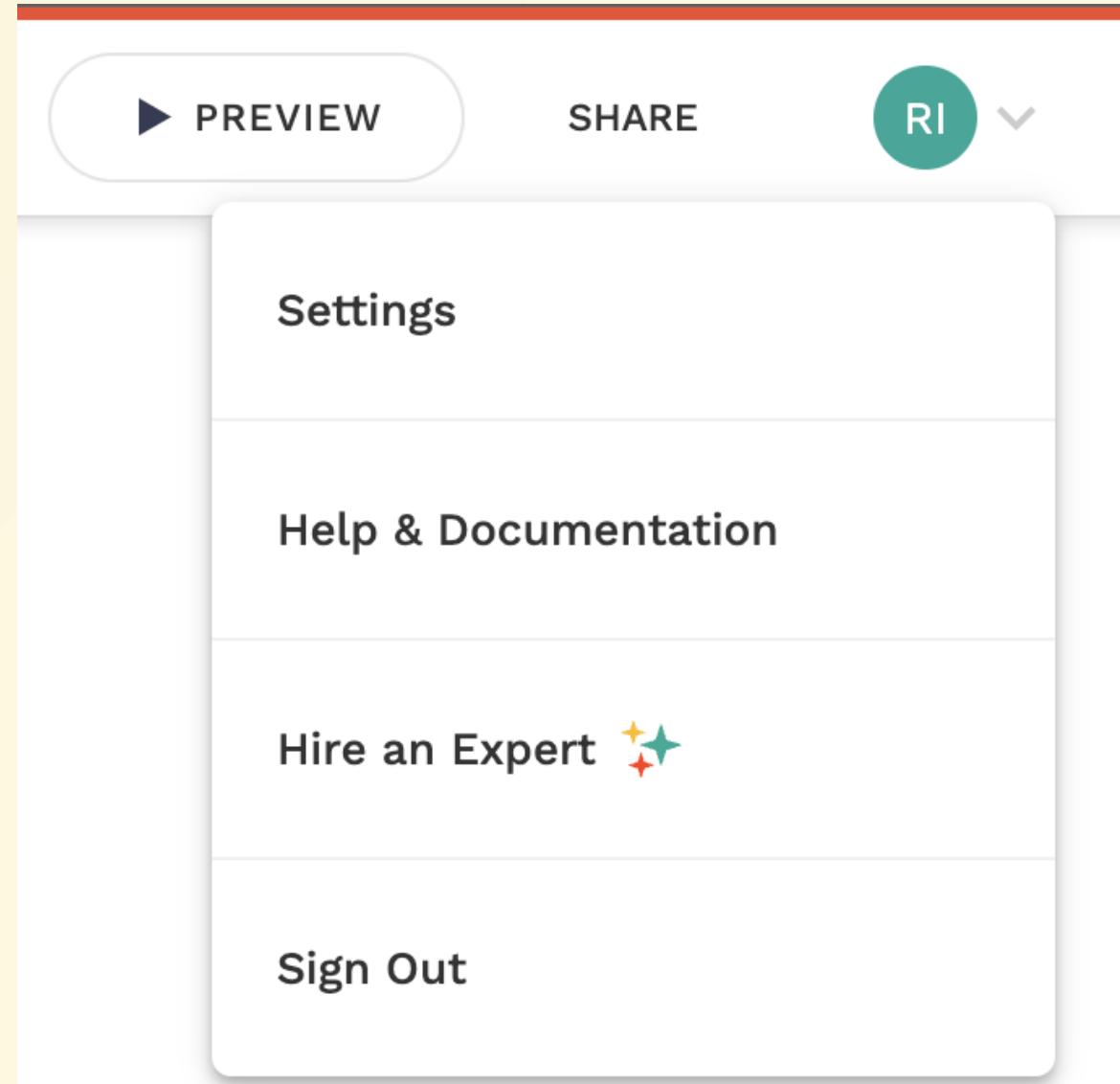
## Preview, Share

- You can run the app and try it out.

The screenshot shows a mobile application interface for a "Chat App". At the top, there's a navigation bar with the Adalo logo. Below it, the title "Chat App" is displayed in a large, bold, blue font. A descriptive text bubble states: "An Adalo template that helps you easily create chat apps that look great on every screen size." A blue button with white text says: "That sounds great! Where do I sign up to try it?". Another text bubble below it says: "Click the sign up link below or sign into the demo with will@email.com, pw 123.". At the bottom, there's a "SIGN UP" button with rounded corners and a "ALREADY HAVE AN ACCOUNT?" link. In the bottom left corner, there's a small circular icon with a stylized letter 'A' and the text "CREATED WITH ADALO".

## Account Menu

- Allows you to configure various settings.
- Link to help and documentation.
- You can find an Adalo Expert.
- Sign Out.



## Tips

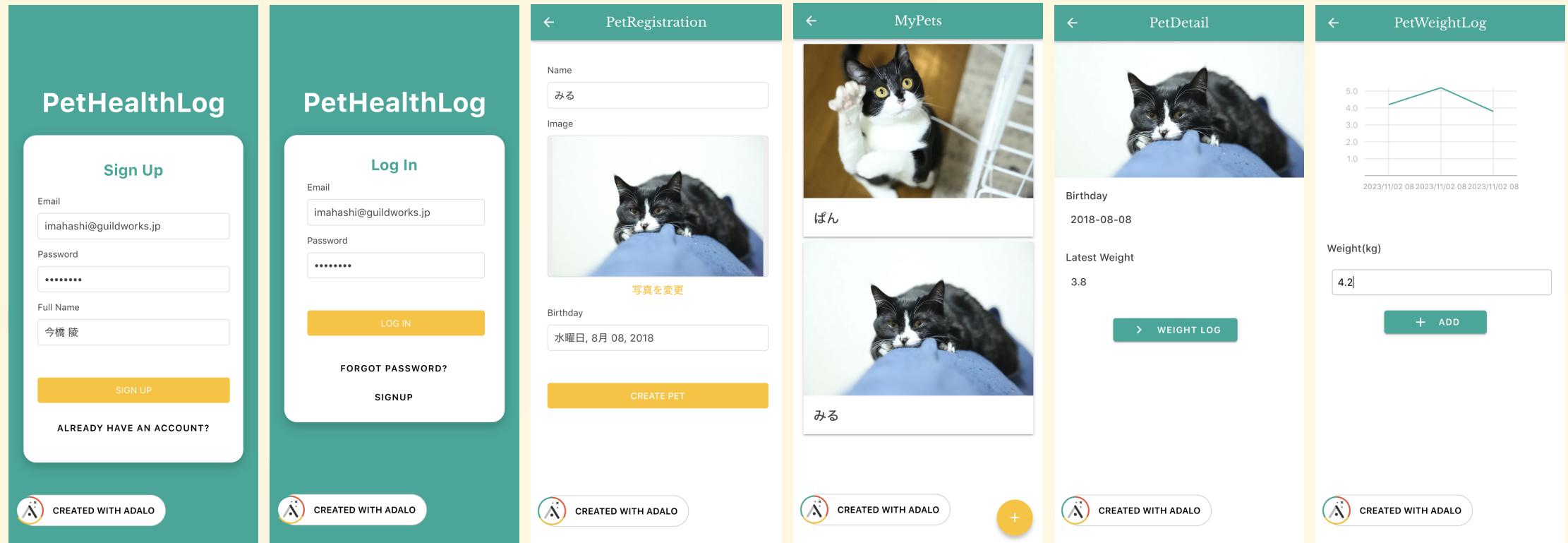
- If you edit something by mistake, you can undo it with `Ctrl + Z` on Windows or `Command + Z` on Mac!
- Entering Japanese text may not work well with Adalo's development tools. Use copy and paste instead.

# Sample application development

Let's create a new application.

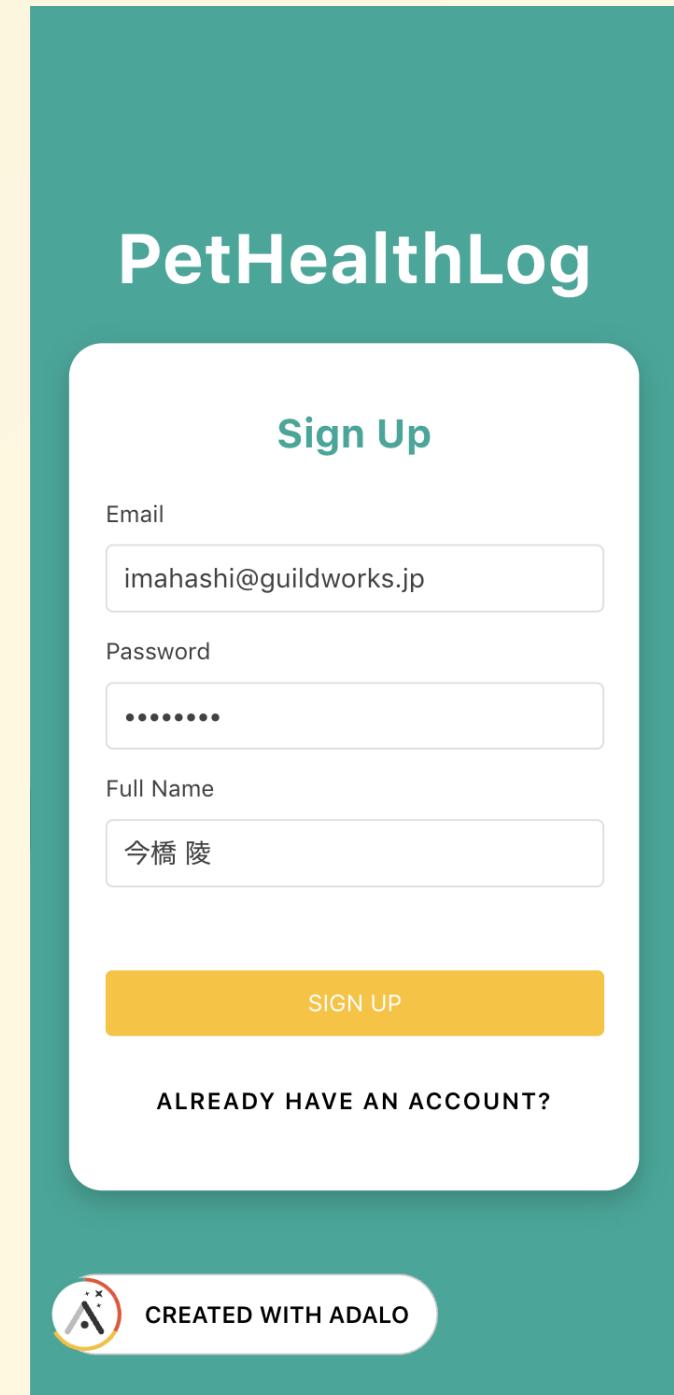
# UI of the sample application

This is a health management application for your pet.  
First, check the UI.



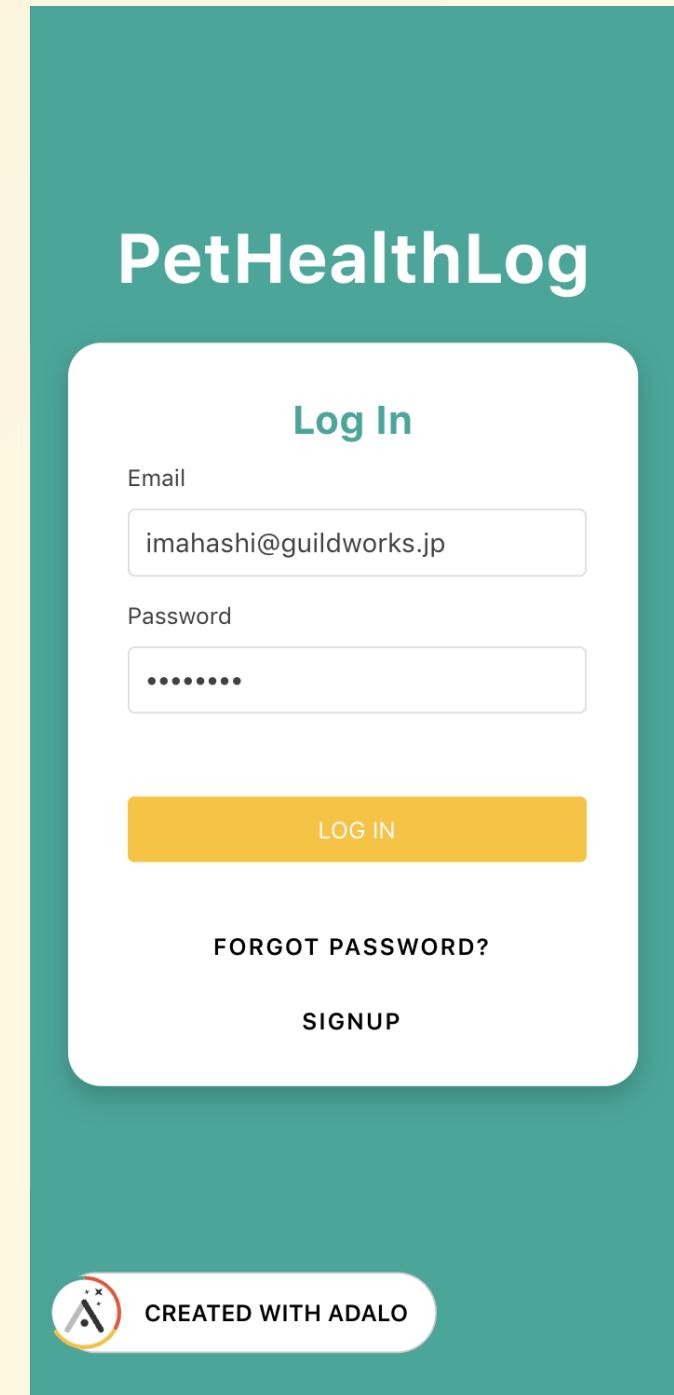
## User Registration Screen

- You can register as a user by entering the following information
  - Email
  - Password
  - Full Name
- For those who have already registered, there is a link to the login screen.



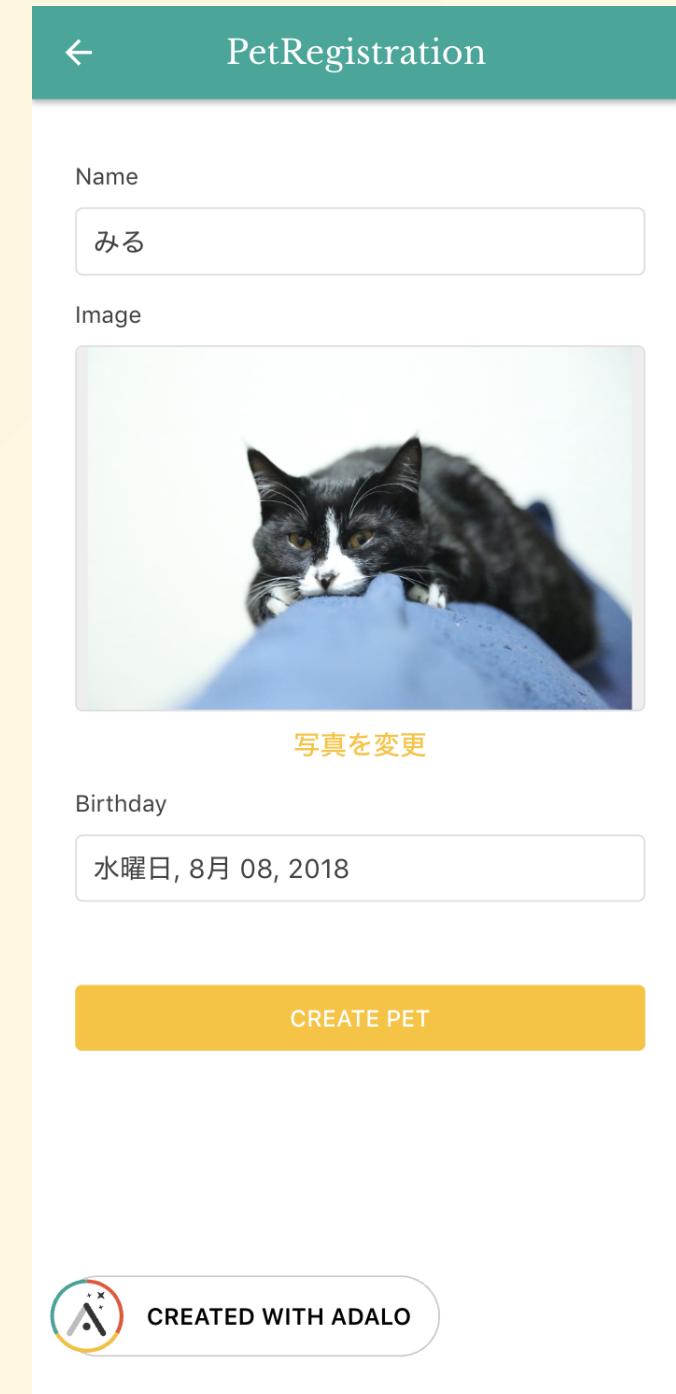
## Login screen

- You can log in by entering the following information
  - Email
  - Password
- There is a link for those who have forgotten their password.
- There is a link to the user registration page.



# Pet Registration Screen

- You can enter your pet's name.
- You can select your pet's photo.
- You can enter your pet's birthday.
- You can click the "Register" button to register your pet and move to the pet list screen.



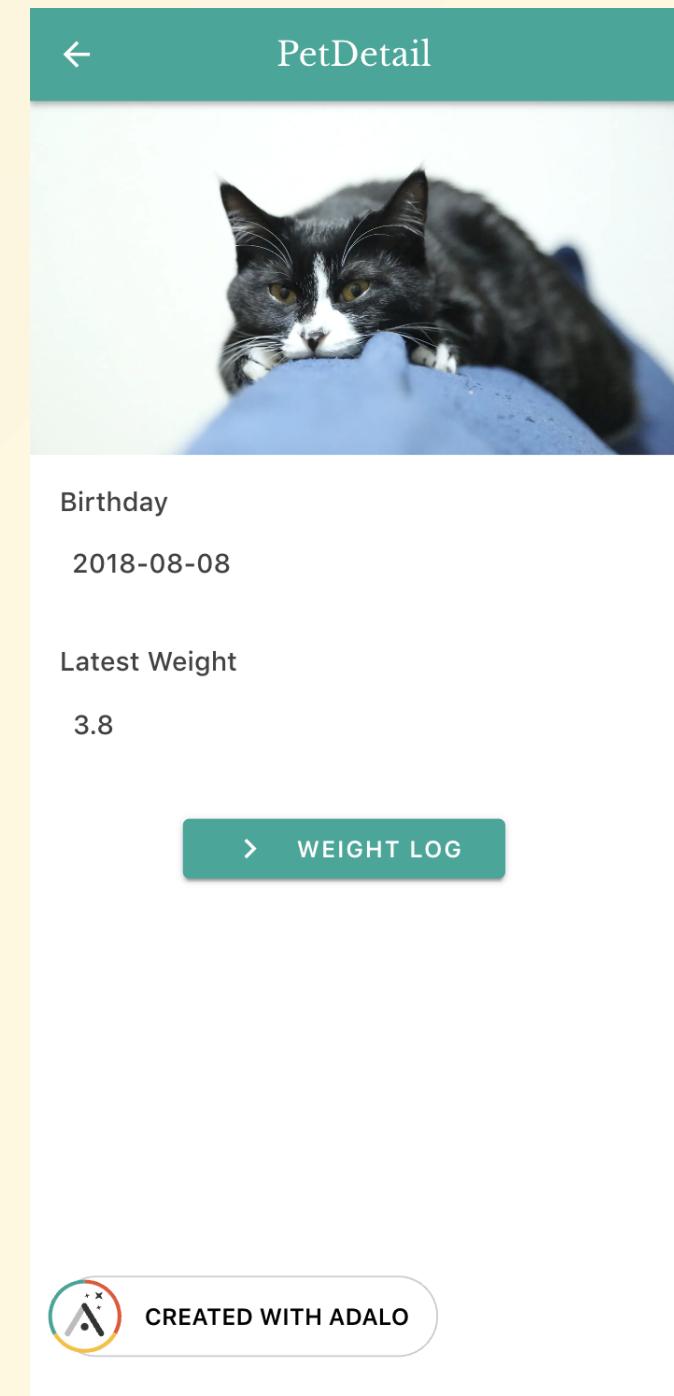
## Pet List screen

- Registered pets can be displayed in a list.
- Clicking on a pet will take you to the pet details screen for that pet.
- Clicking the icon at the bottom right take you to the Pet Registration screen.



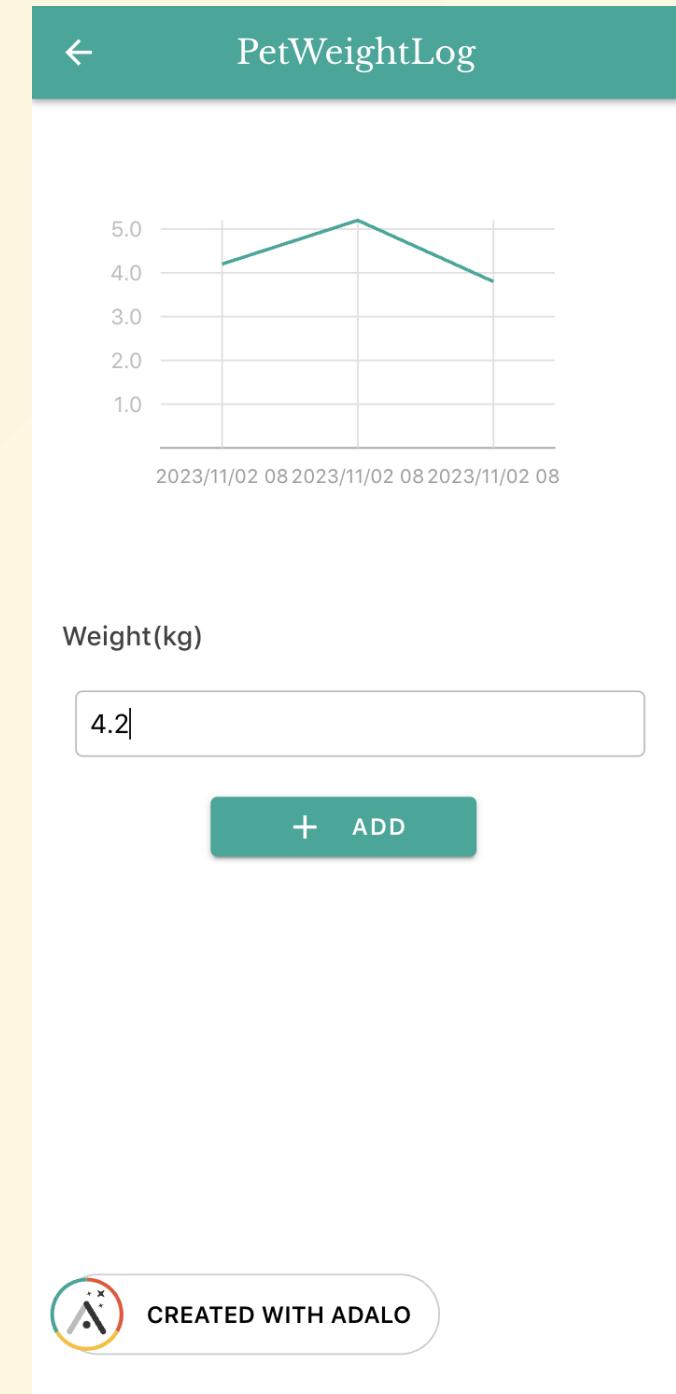
## Pet Detail Screen

- Birthday is displayed.
- The latest weight is displayed.
- There is a link to the weight log screen.



## Weight Log screen

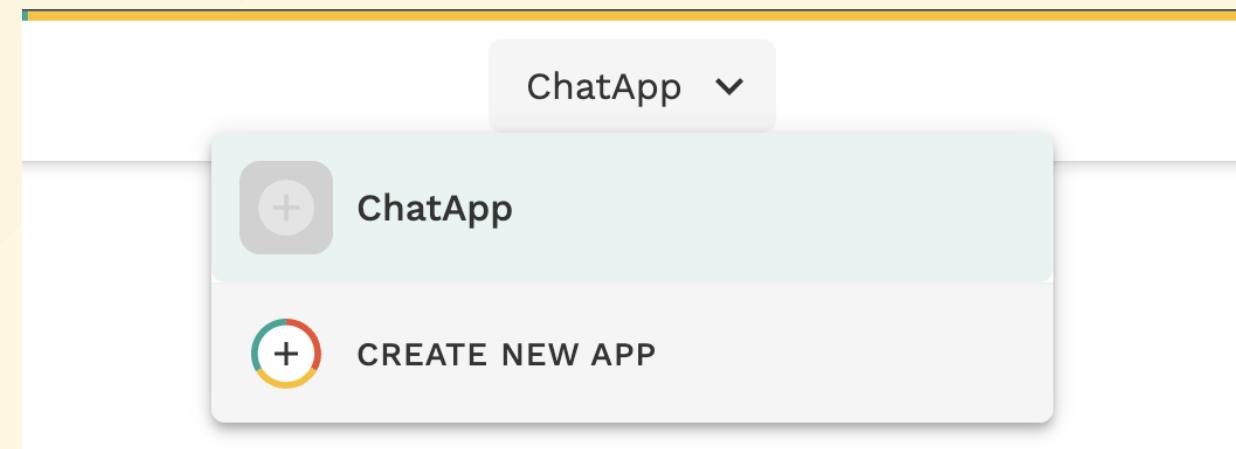
- A graph showing the transition in weight is displayed.
- You can enter your pet's current weight.
- You can add your pet's weight by pressing the button



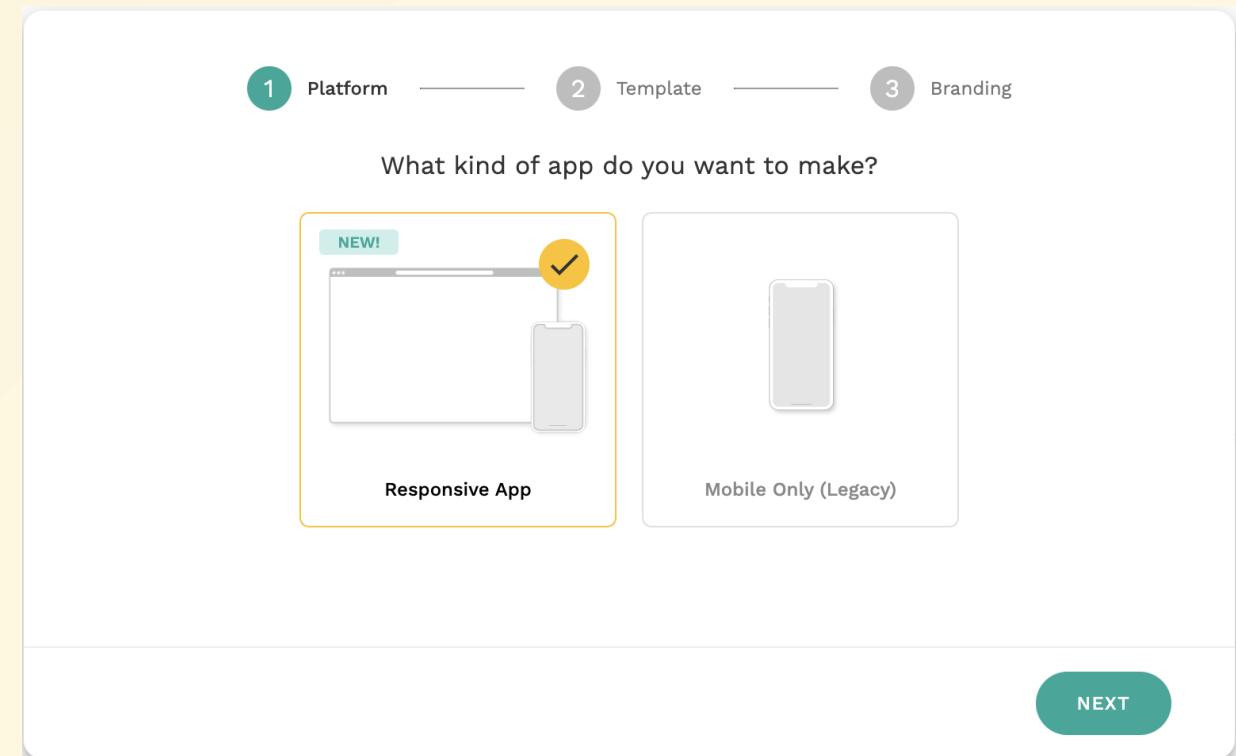
# Creating the application

Now, let's create the application.

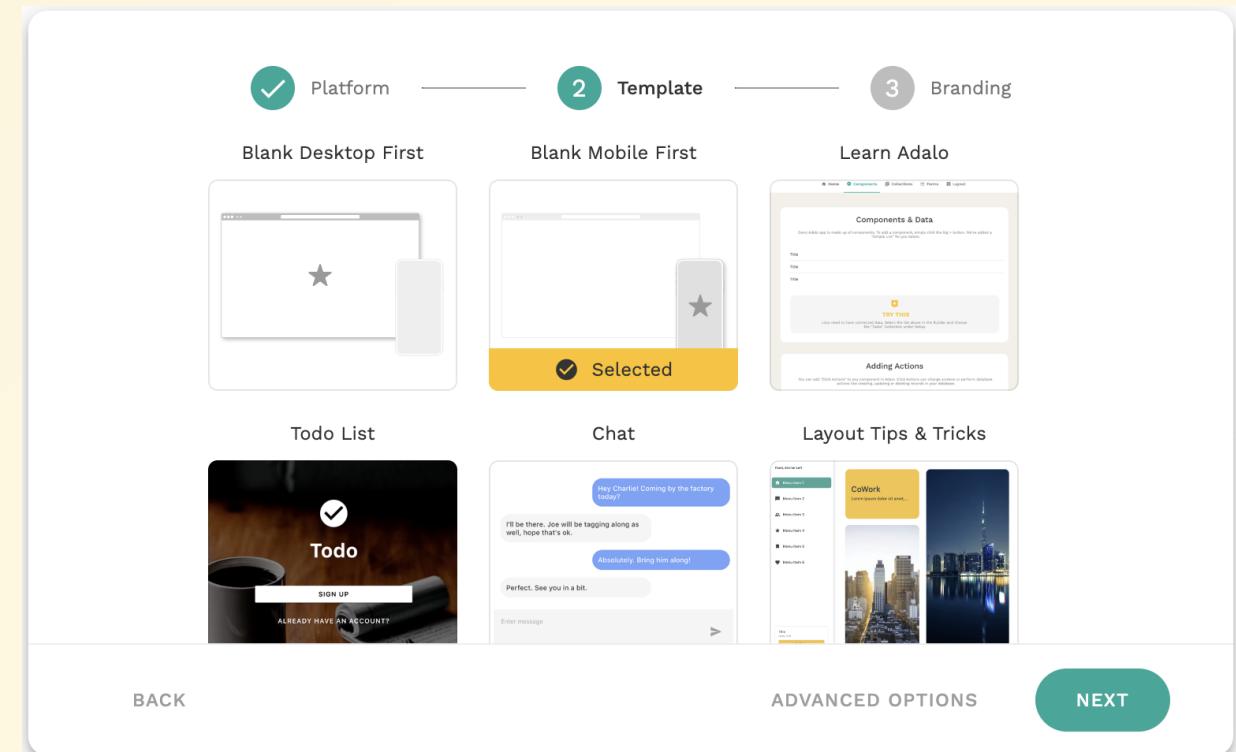
- select CREATE NEW APP



- Select Responsive App



- select Template: Blank Mobile First

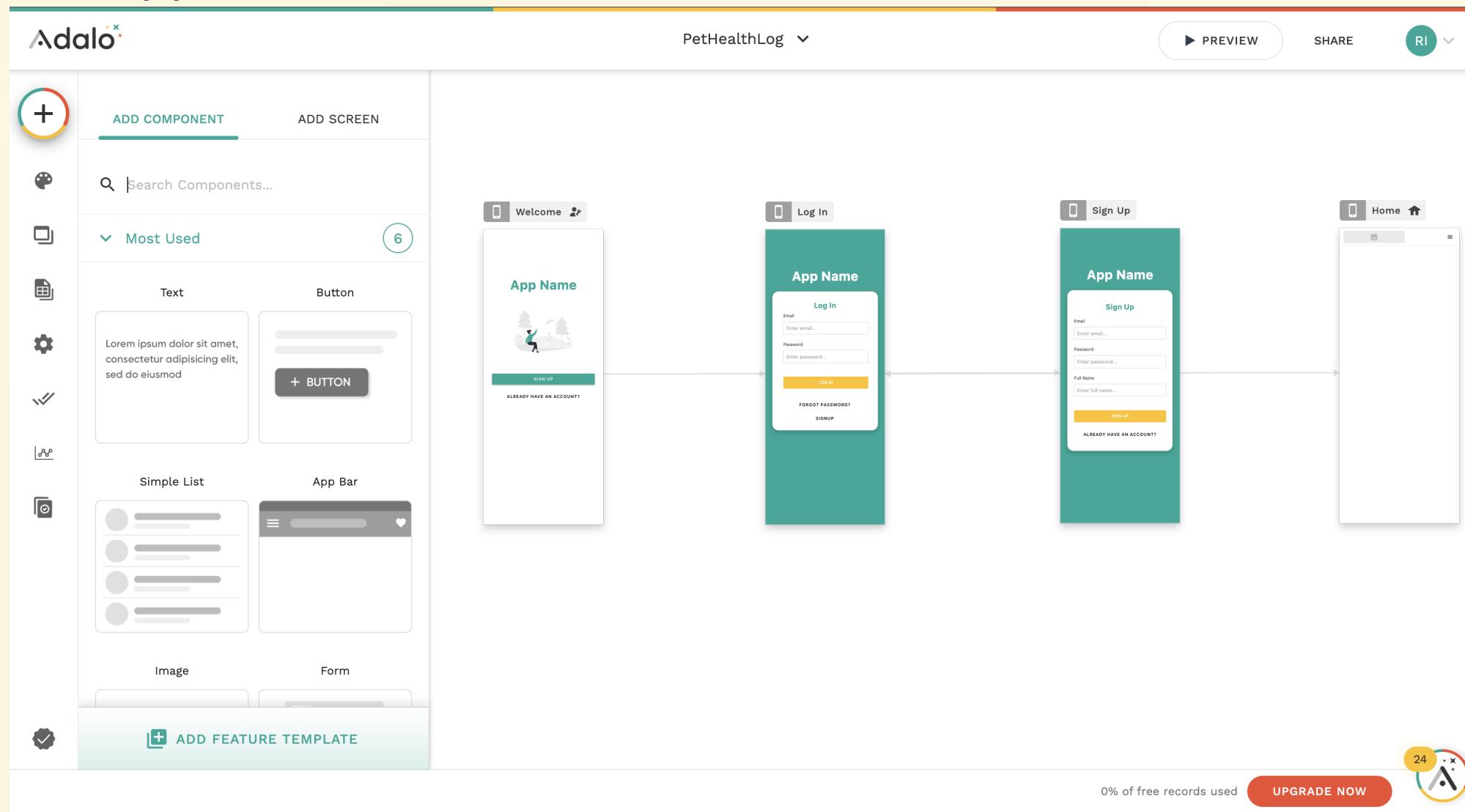


- Enter App Name, Users of this app, and Color as you like.

The screenshot shows a mobile application interface for branding setup. At the top, there are three circular status indicators: 'Platform' (green checkmark), 'Template' (green checkmark), and 'Branding' (green circle with the number '3').

The 'App Name' field contains the text 'PetHealthLog'. The 'Who are the users of this app?' dropdown menu is open, showing the option 'Mostly me, I'm just testing'. Below these, there are two color selection fields: 'Primary Color' set to '#00A898' (with a teal background) and 'Secondary Color' set to '#FFC00E' (with a yellow background). At the bottom left is a 'BACK' button, and at the bottom right is a green 'CREATE' button.

- The application is created



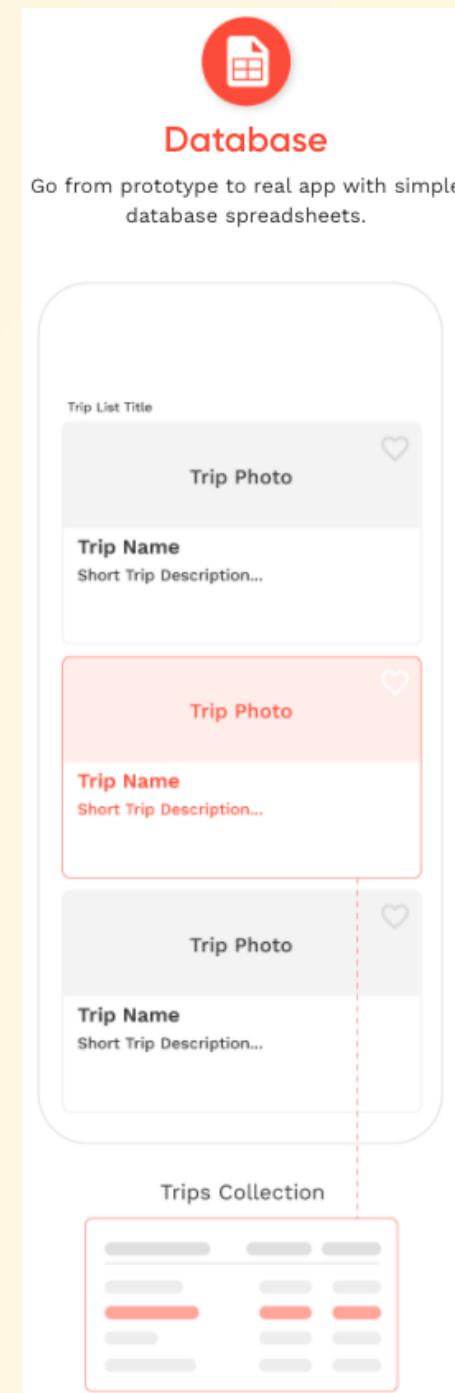
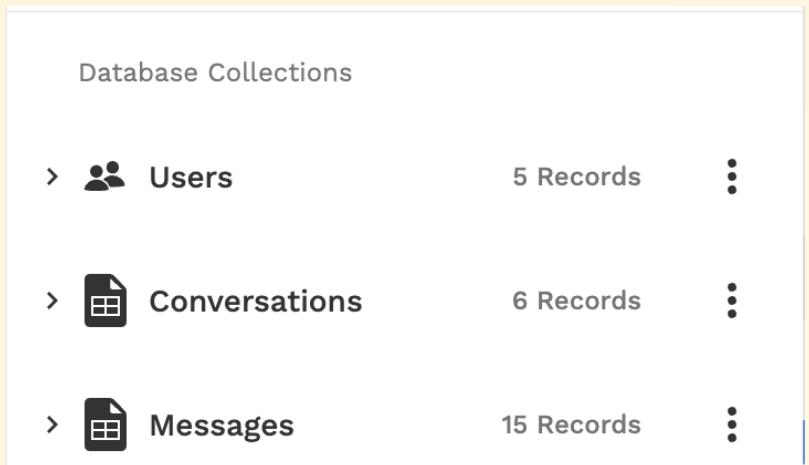
# Let's learn about database

Defining the data to be handled by that application at the beginning of the application development make it easy to develop the application.

First, learn what a database is.

# Database

- A set of organized data.
- Data can be registered, read (displayed), updated, and deleted.
- Example: In the case of a Chat application



- Databases are often compared to "spreadsheet-like" software.
- A database can be used to **CREATE, READ, UPDATE, and DELETE** data. These operations are collectively called **CRUD** operations.

Users

+ ADD USER
🔒
⬆️
⬇️
✖️
🔍

<input type="checkbox"/>	<a href="#">Email</a>	<a href="#">Password</a>	<a href="#">Username</a>	<a href="#">Full Name</a>	<a href="#">Profile Image</a>
<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	

DONE

## Basics of Adalo's database



You can access Adalo's database from this icon.  
There are three components of the Adalo database.

- Collection
- Property
- Record

# What is a Collection?

A collection of data that has the same property.

The screenshot shows a database interface with a sidebar on the left and a main table view on the right.

**Left Sidebar:**

- + Database Collections
- Database Collections
- Users (5 Records)
- Email
- Password
- Username
- Full Name
- Messages
- Profile Image
- Messages
- Conversations
- Friends
- Active Conversation

**Main View:**

**Table Headers:**

	A Email	🔒 Password	A Username	A Full Name	Profile Image
--	---------	------------	------------	-------------	---------------

**Table Data:**

<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	

**Top Right Buttons:**

- + ADD USER
- 🔒
- Upload icon
- Download icon
- Sync icon
- Search icon

**Bottom Right Button:**

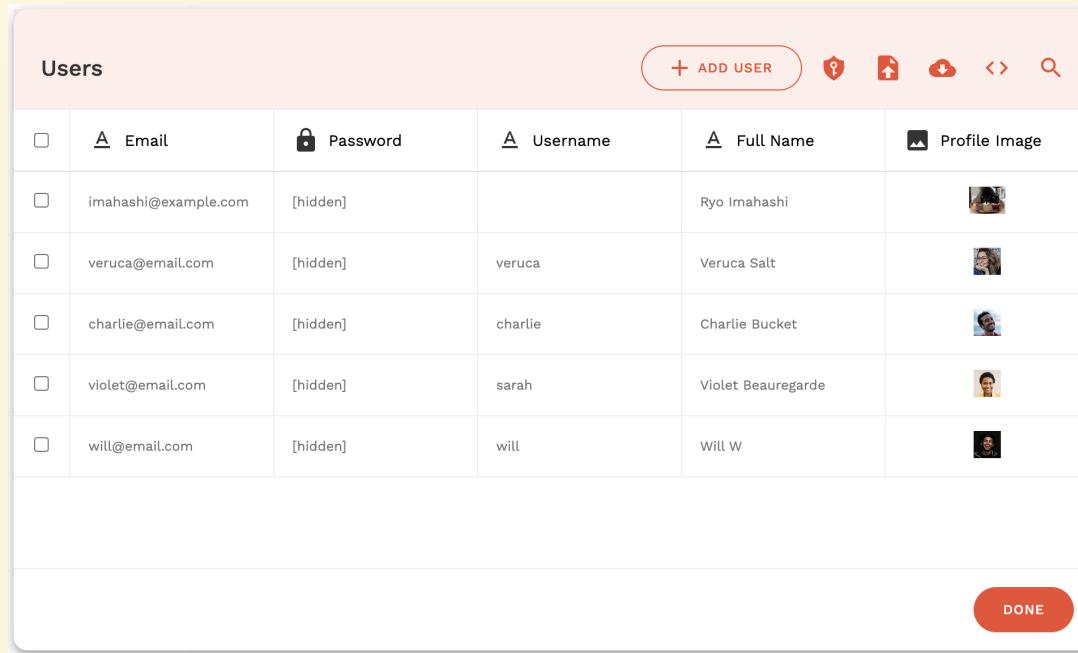
DONE

- Collection is used to divide and organize the various data.(An analogous term is table.)
- In many cases, a Collection is a group of data that a user can register, update, or delete in a single operation. <!-- (A collection is often said to be something that can be expressed as a noun.
- By default, Users is prepared as a Collection, and the rest can be added according to the application to be developed.

It is very difficult to decide what kind of collection to add. Let's practice and get used to it. (If you have any problems, consult with mentors.)

## What is Record?

- Record is a unit of information in a collection.
  - One row corresponds to one Record.
- In the example of Users Collection, the information belongs to one user is registered as one Record.



The screenshot shows a MongoDB Compass interface with a table titled "Users". The table has columns: a checkbox, Email, Password, Username, Full Name, and Profile Image. There are six rows of data:

<input type="checkbox"/>	A Email	🔒 Password	A Username	A Full Name	Profile Image
<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	

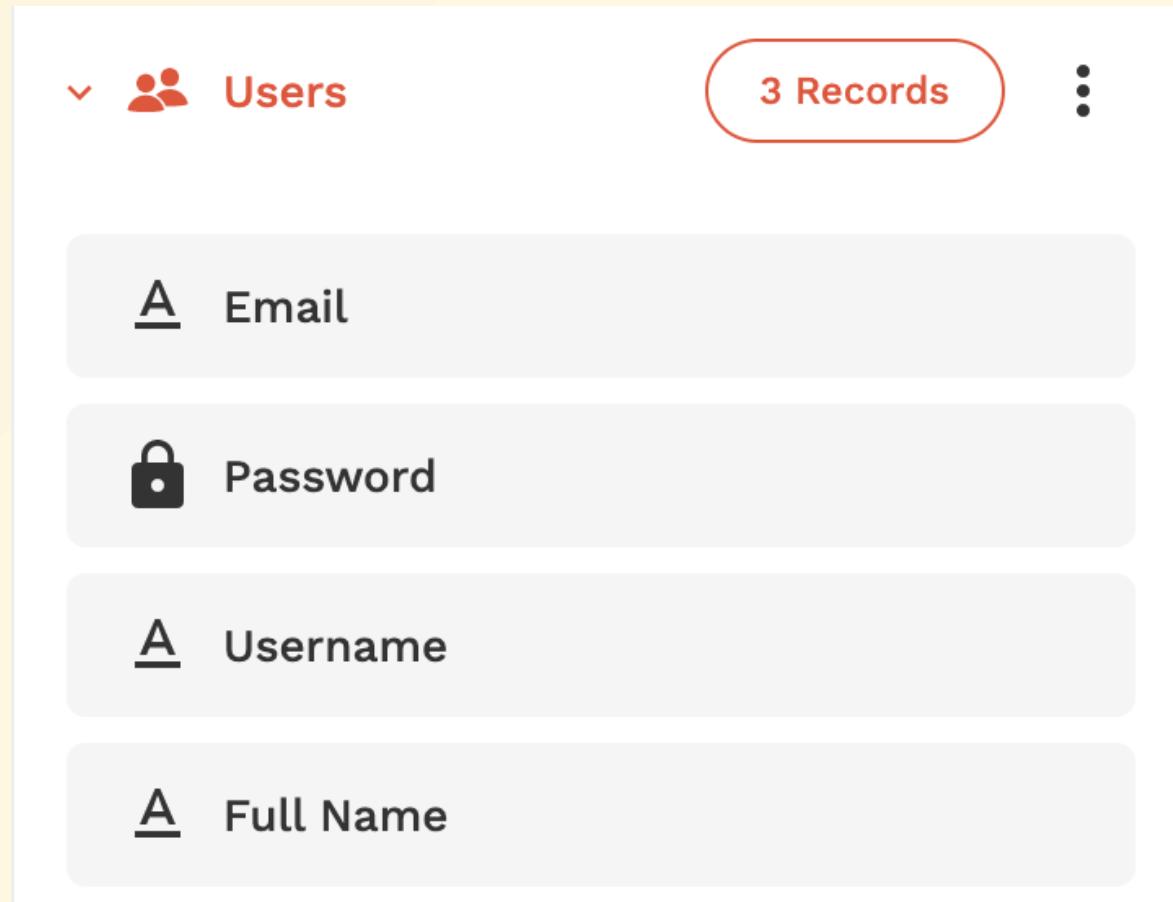
At the bottom right of the table is a red "DONE" button.

- Records are basically registered from the form on the screen of the app, but it is also possible to register from the form by pressing the "+Add xxxx" button on the upper right in Record View.
- You can also search for Records in the Collection, and upload (import) and download CSV files.

The screenshot shows a mobile application interface for creating a new user account. The title bar at the top says "New User". The form consists of five input fields: "Email" (with an "A" icon), "Password" (with a lock icon), "Username" (with an "A" icon), "Full Name" (with an "A" icon), and "Profile Image" (with a camera icon). Below the profile image field is a placeholder text "Choose image". At the bottom right are two buttons: "CANCEL" and a red "SAVE" button.

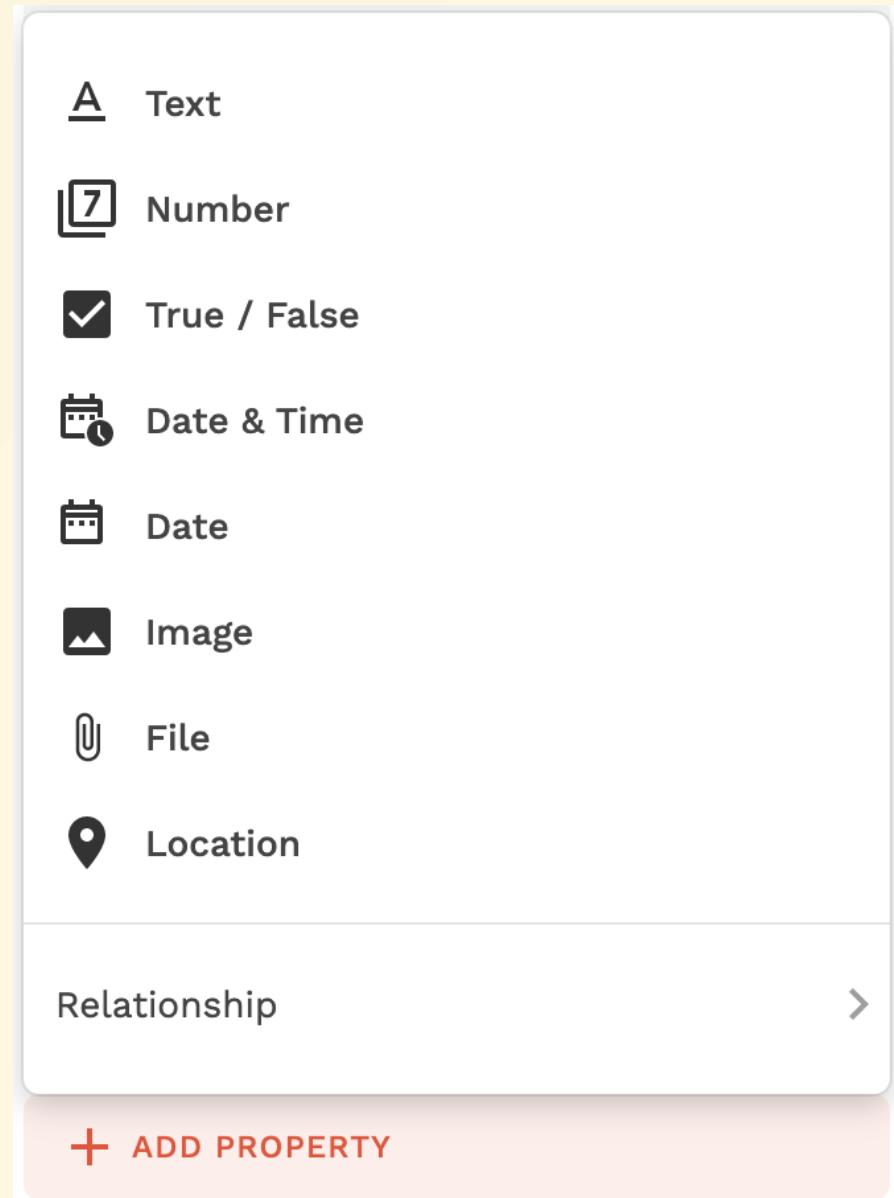
## What is Property?

- Property is each and every item that makes up a Record.
- The Users Collection consists of properties such as email, password, user name, and name.
- The value of Property can be empty.



To define what kind of data the Property is, select the Type when adding it.

- Text
- Number
- True/False
- Date/Time
- Date/Time
- Image
- File
- Location

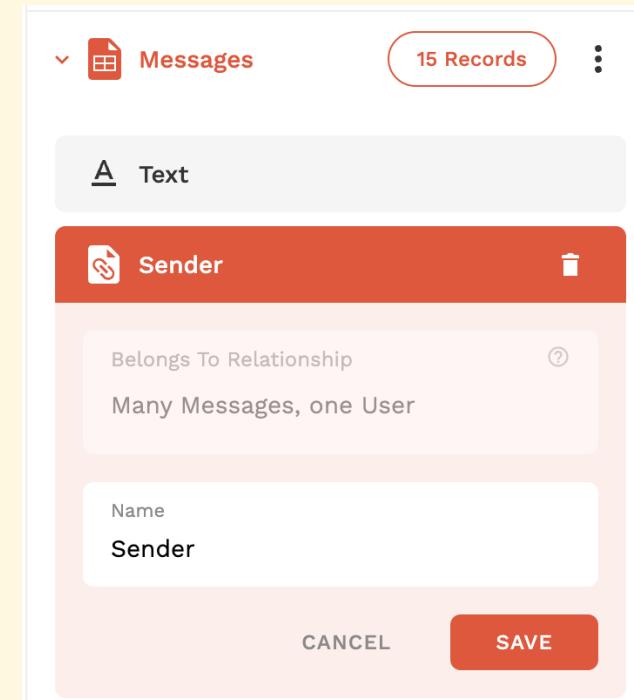
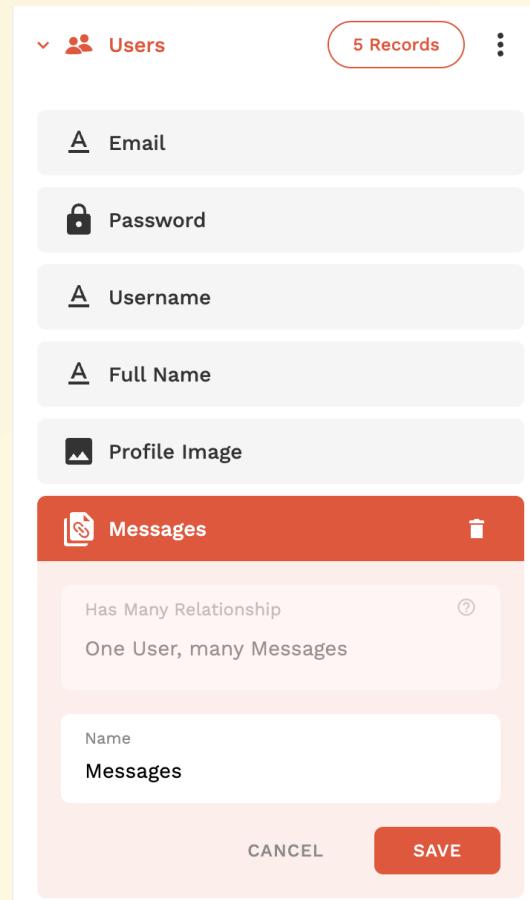


## What is Relationship?

- Instead of storing a large number of properties for a single Record, we can set a special property to relate multiple Collections, called Relationship. This allows you to divide a Collection into manageable pieces.

- For example, a message sent by a user in the Chat app is stored in the Messages Collection, which is separate from the Users Collection, and these two collections are related by Relationship.

- The Users side has a Relationship called Messages, and the Messages side has a Relationship called Sender (with User).

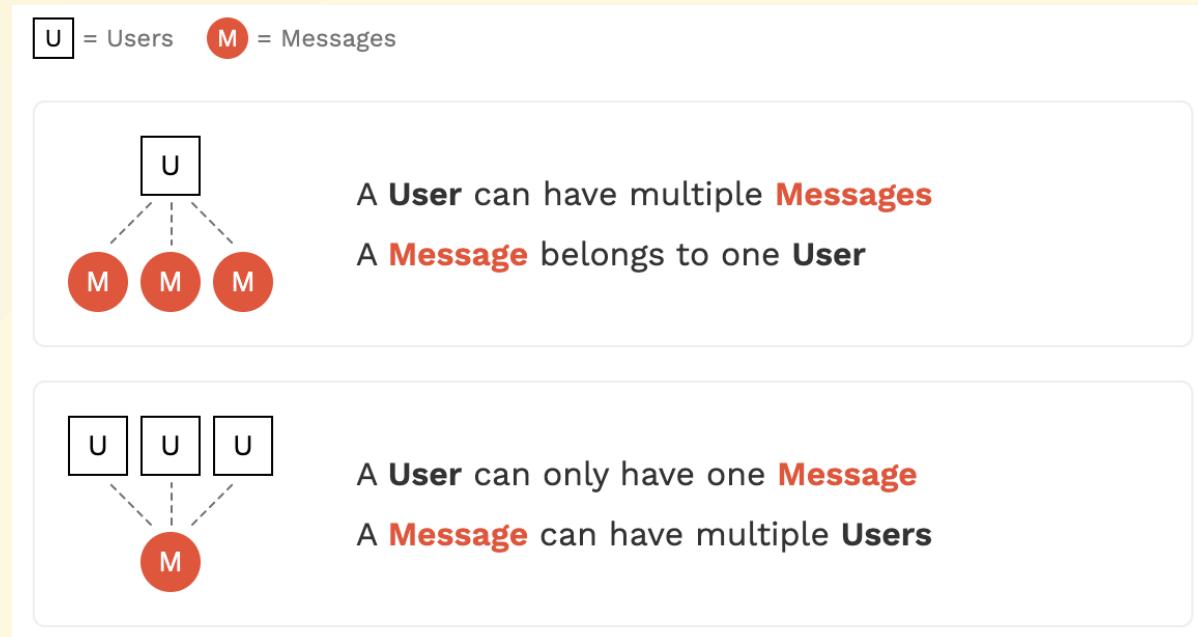


## Types of Relationship

- In Adalo's Relationship, you can choose one of two types, one-to-many or many-to-many, depending on the number of Records associated with the Collection.

# One-to-many Relationship

- This means that one Record has a relationship with multiple Records in different collections.
- Depending on whether the Collection you are trying to set the Relationship to is one or many, two choices will appear.



# Example of a one-to-many Relationship

- In the Chat application, one user sends multiple messages, but the sender of the message is one user, so the Relationship in the Users Collection and Messages Collection is one-to-many.

The image shows two tables side-by-side, illustrating a one-to-many relationship between the 'Users' collection and the 'Messages' collection.

**Users Table:**

	Email	Password	Username	Full Name	Messages
<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	2 messages
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	2 messages
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	2 messages
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	1 message
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	8 messages

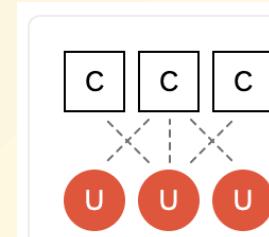
**Messages Table:**

	Text	Sender	Conversation	Receiver	ID
<input type="checkbox"/>	Hey!	will@email.com	Will W and Ryo Imahashi		45
<input type="checkbox"/>	foo	imahashi@example.com	Violet Beauregarde and...		44
<input type="checkbox"/>	Hi!	imahashi@example.com	Will W and Ryo Imahashi	will@email.com	43
<input type="checkbox"/>	Sure thing Violet.	will@email.com	Violet Beauregarde and...		42
<input type="checkbox"/>	Hey Will! Before you st...	violet@email.com	Violet Beauregarde and...		41

The 'Messages' table lists six messages sent by the user 'will@email.com' (ID 41) to various recipients. The 'Sender' column consistently shows 'will@email.com', demonstrating that one user can send multiple messages, while each message is associated with a single user.

# Many-to-many Relationships

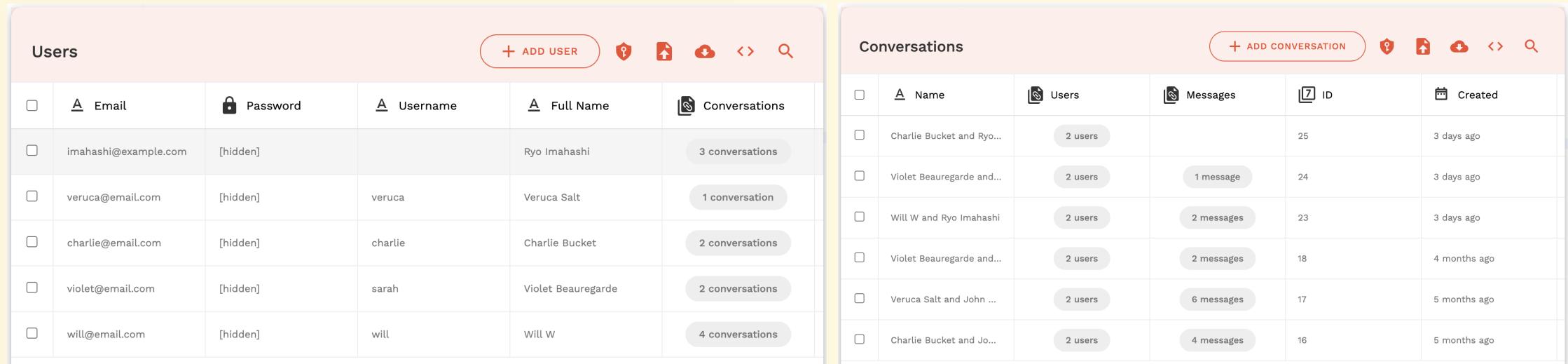
- This means that one Record in both Collections is tied to multiple Records in the other Collection.



A **User** can have multiple **Conversations**  
A **Conversation** can have multiple **Users**

# An example of a many-to-many Relationship

- In a Chat application, one user can have multiple conversations (to keep track of who and what messages were exchanged), and one conversation can have multiple members (users), so the relationship between the Users Collection and the Conversations Collection is many-to-many.



The screenshot shows two tables side-by-side, representing the 'Users' and 'Conversations' collections in a MongoDB-like interface.

**Users Table:**

	Email	Password	Username	Full Name	Conversations
<input type="checkbox"/>	imahashi@example.com	[hidden]		Ryo Imahashi	3 conversations
<input type="checkbox"/>	veruca@email.com	[hidden]	veruca	Veruca Salt	1 conversation
<input type="checkbox"/>	charlie@email.com	[hidden]	charlie	Charlie Bucket	2 conversations
<input type="checkbox"/>	violet@email.com	[hidden]	sarah	Violet Beauregarde	2 conversations
<input type="checkbox"/>	will@email.com	[hidden]	will	Will W	4 conversations

**Conversations Table:**

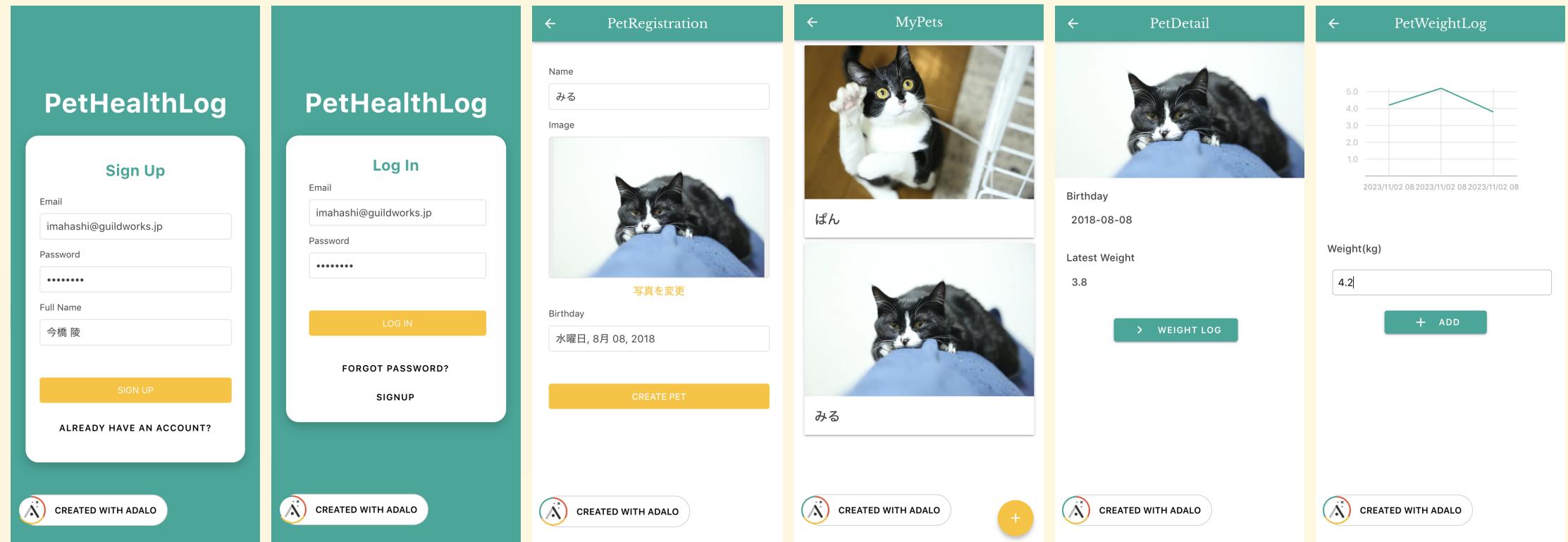
	Name	Users	Messages	ID	Created
<input type="checkbox"/>	Charlie Bucket and Ryo...	2 users		25	3 days ago
<input type="checkbox"/>	Violet Beauregarde and...	2 users	1 message	24	3 days ago
<input type="checkbox"/>	Will W and Ryo Imahashi	2 users	2 messages	23	3 days ago
<input type="checkbox"/>	Violet Beauregarde and...	2 users	2 messages	18	4 months ago
<input type="checkbox"/>	Veruca Salt and John ...	2 users	6 messages	17	5 months ago
<input type="checkbox"/>	Charlie Bucket and Jo...	2 users	4 messages	16	5 months ago

# Database design

Let's design the database of the sample app.

# Let's design the database.

Let's design the database by looking at the UI of the sample application. The steps are described in the next page.



## Database Design Steps

1. While looking at the UI, make a list of the data that will need to be saved. Write them down in a text editor (e.g. Notepad application).
2. Think about what kind of collections should be created to store the listed data, and create the collections in the Adalo database.
3. Add the data you listed in step 1 as a Property to the appropriate Collection and select the appropriate Type.
4. Set the Relationship Property to collections related to other collection.

In the next slide and onwards, there are explanations, but it is highly recommended that you try it by yourself before checking them.

There is no absolute right answer. When in doubt, follow your intuitions.

## Explanations

While looking at the UI, made a list of the data that needs to be saved, and it looked like this

- User's Email
- User's Password
- User's FullName
- Pet's Name
- Pet's Photo
- Pet's Birth Date
- Pet's weight
- Date and time the pet's weight was registered

- If anyone can name any other data, please let me know!

Thinking about what kind of collections should be created to store the listed data, listed these three Collections.

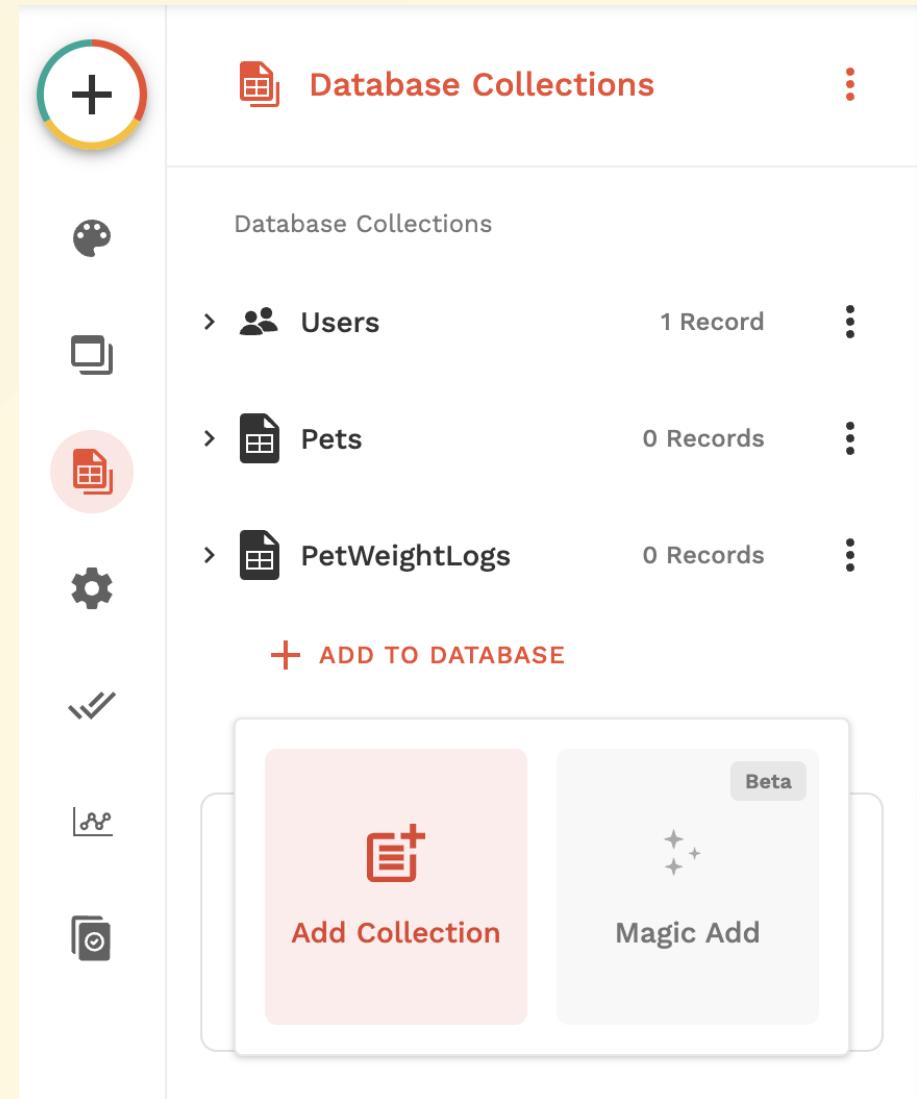
- Users
- Pets
- PetWeightLogs

- Many of you would have listed two collections, one for users and one for pets.
- Some people would not have listed a collection for pet weight records. (It is not wrong to include the pet's weight and its registration date in the pet's Collection. This will be explained later.)
- Have any of you listed other Collections?

## Additional information on Collection classification

- When the relationship "if A is identified, then B is identified" is true, "A" is often a Collection and "B" is a Property of that Collection.
  - If a user is identified, the user's email, password, and FullName are identified.
  - If a pet is identified, the pet's name, photo, and birthday are identified.
- When the relationship "there are multiple B's corresponding to A" is true, A and B are often split into two collections.
  - There are multiple pet weights and their registration times corresponding to a pet.

- Register the Collection into the Adalo database.
  - Add manually by ADD TO DATABASE > Add Collection
  - Magic Add will suggest changes to the database based on the description of the feature you entered, but we will not use it this time.
- Users Collection is created by default.

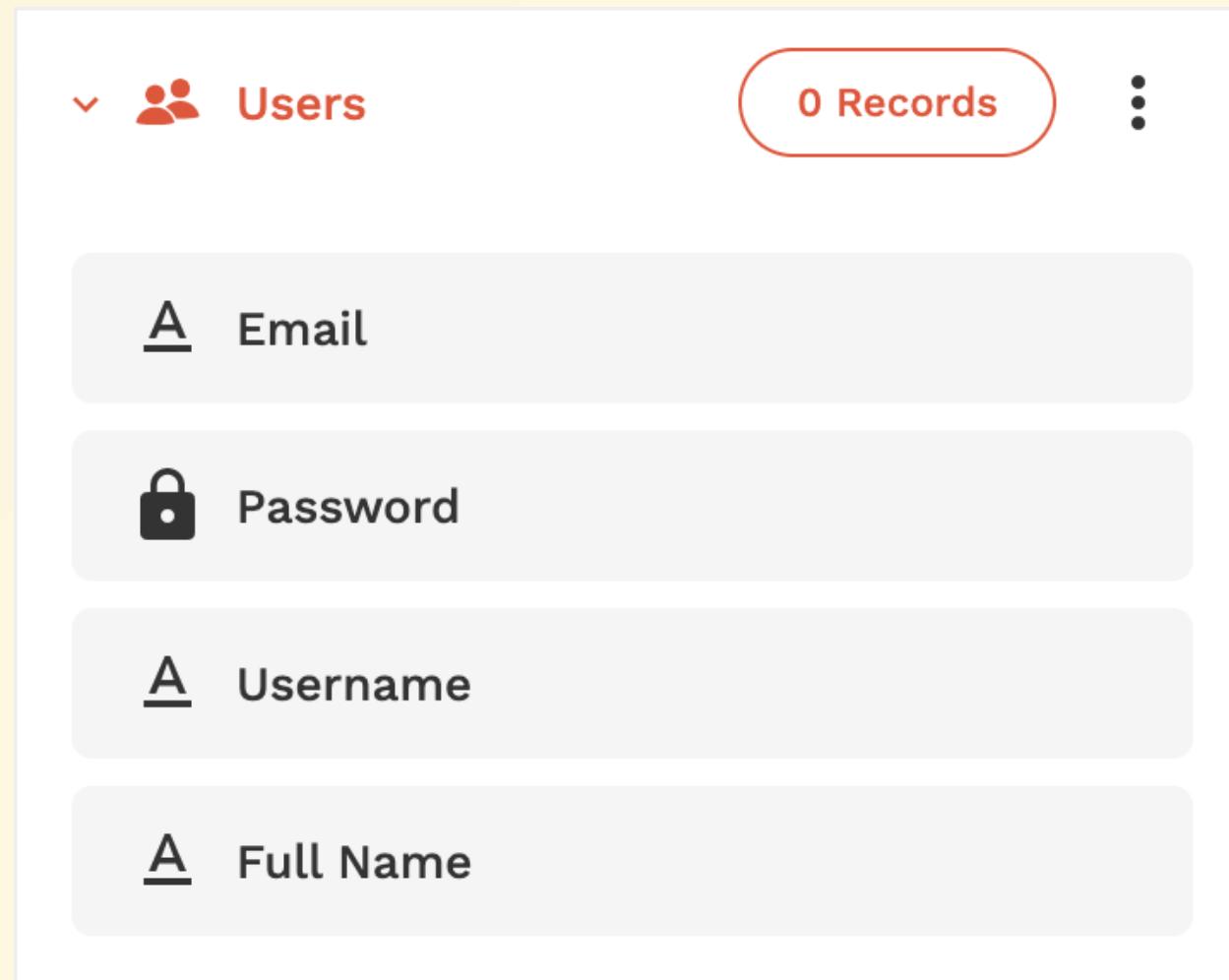


Next, I appended the data listed in step1 as a Property of the appropriate Collection. Types are placed in "()".

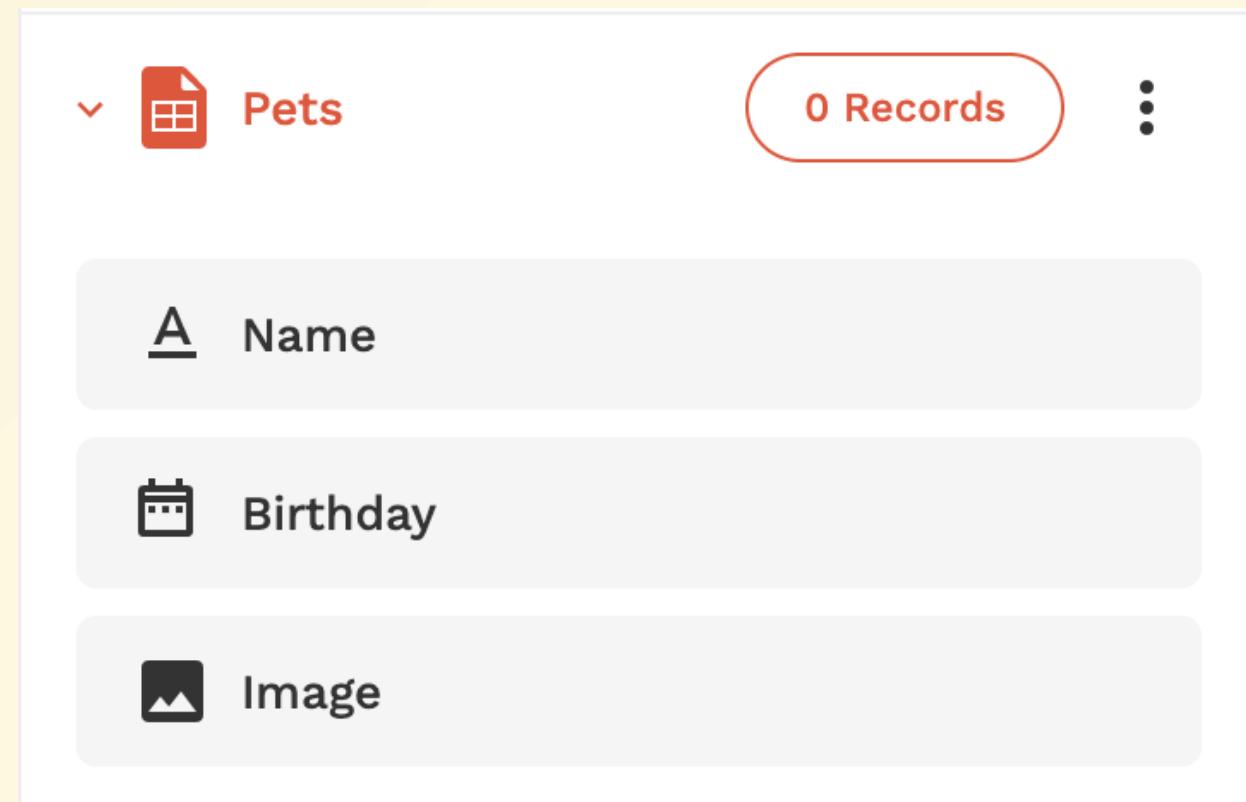
- Users
  - Email(Text)
  - Password(\*Password)
  - FullName(Text)
- Pets
  - Name(Text)
  - Image(Image)
  - Birthday(Date)
- PetWeightLogs
  - WeightKg(Number)
  - RegisteredTime(Date&Time)

Password is a special Type that is set to Password by default.

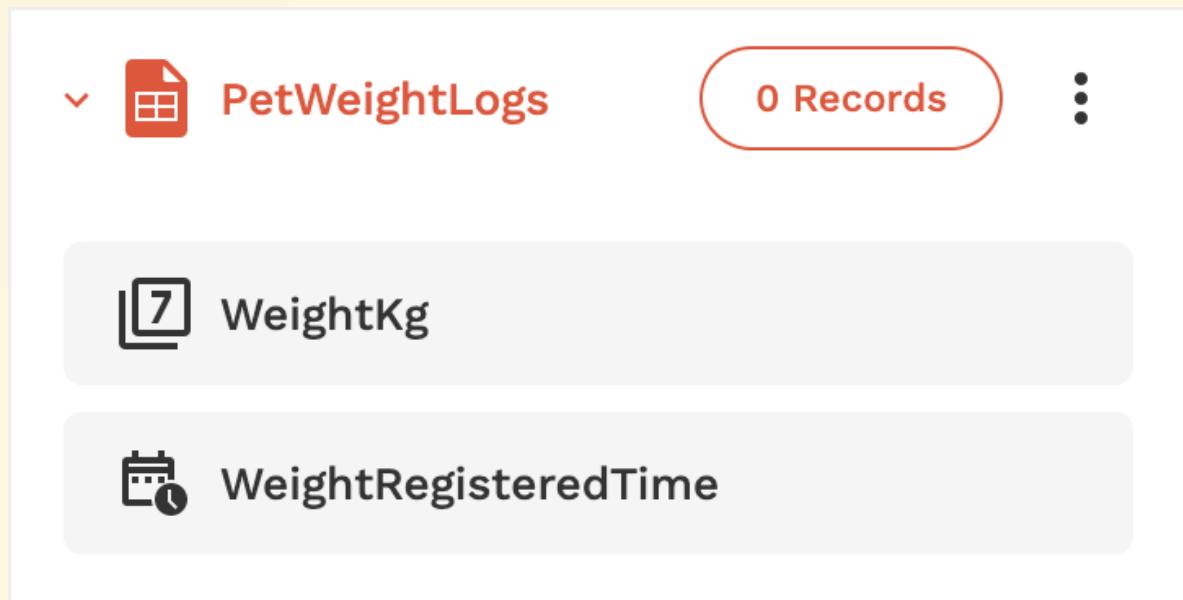
- In Adalo database, add the properties.
- The Users Collection is already set by default and contains all the necessary items.
- We don't need Username, but since we can't delete it, leave it as is.



- The Pets Collection Property looks like this.

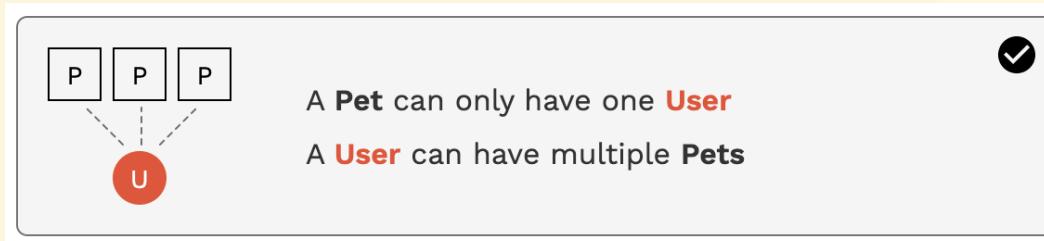


- The Property of the PetWeightLogs Collection looks like this.
- Delete the Name Property, which is set by default when you add a Collection.
  - You can delete it after dragging and dropping it so that the order is not at the top of the collection.



Finally, for collections that are related to other collections, set the Relationship Property.

- Select the Users Collection to add a one-to-many Relationship with the Pet Collection.



▼ Users 1 Record ⋮

Email

Password

Username

Full Name

Pets trash bin icon

Has Many Relationship ?

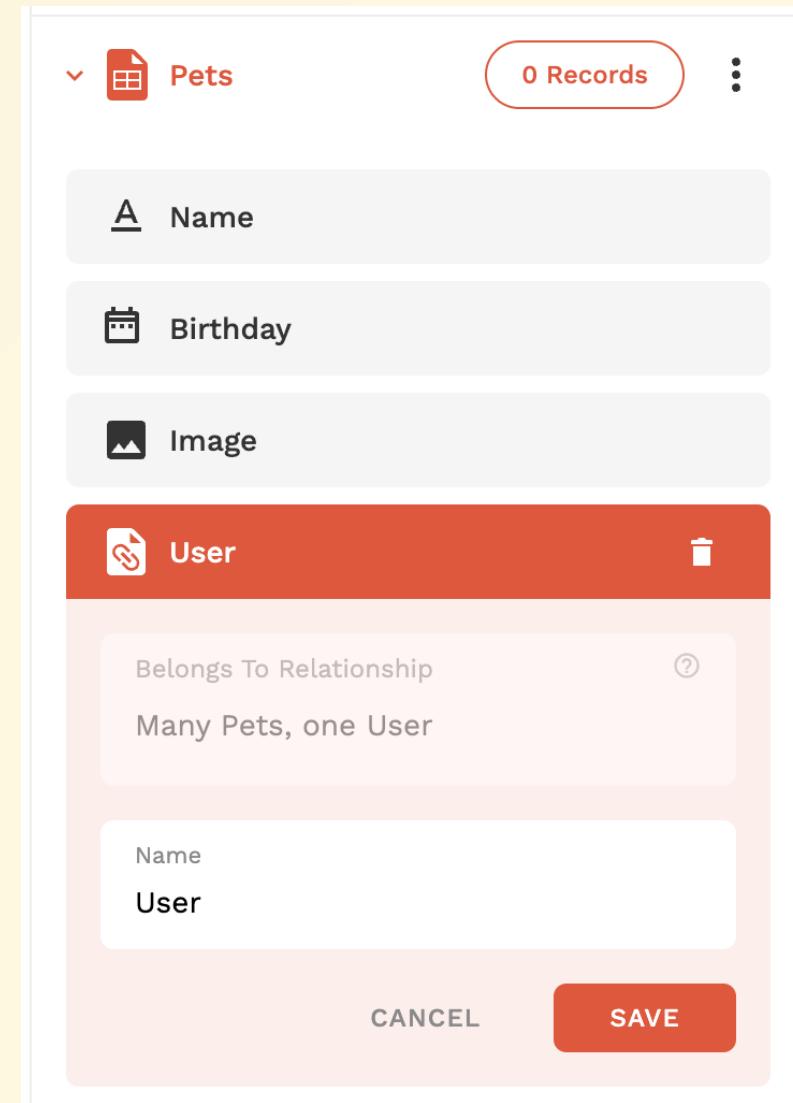
One User, many Pets

Name

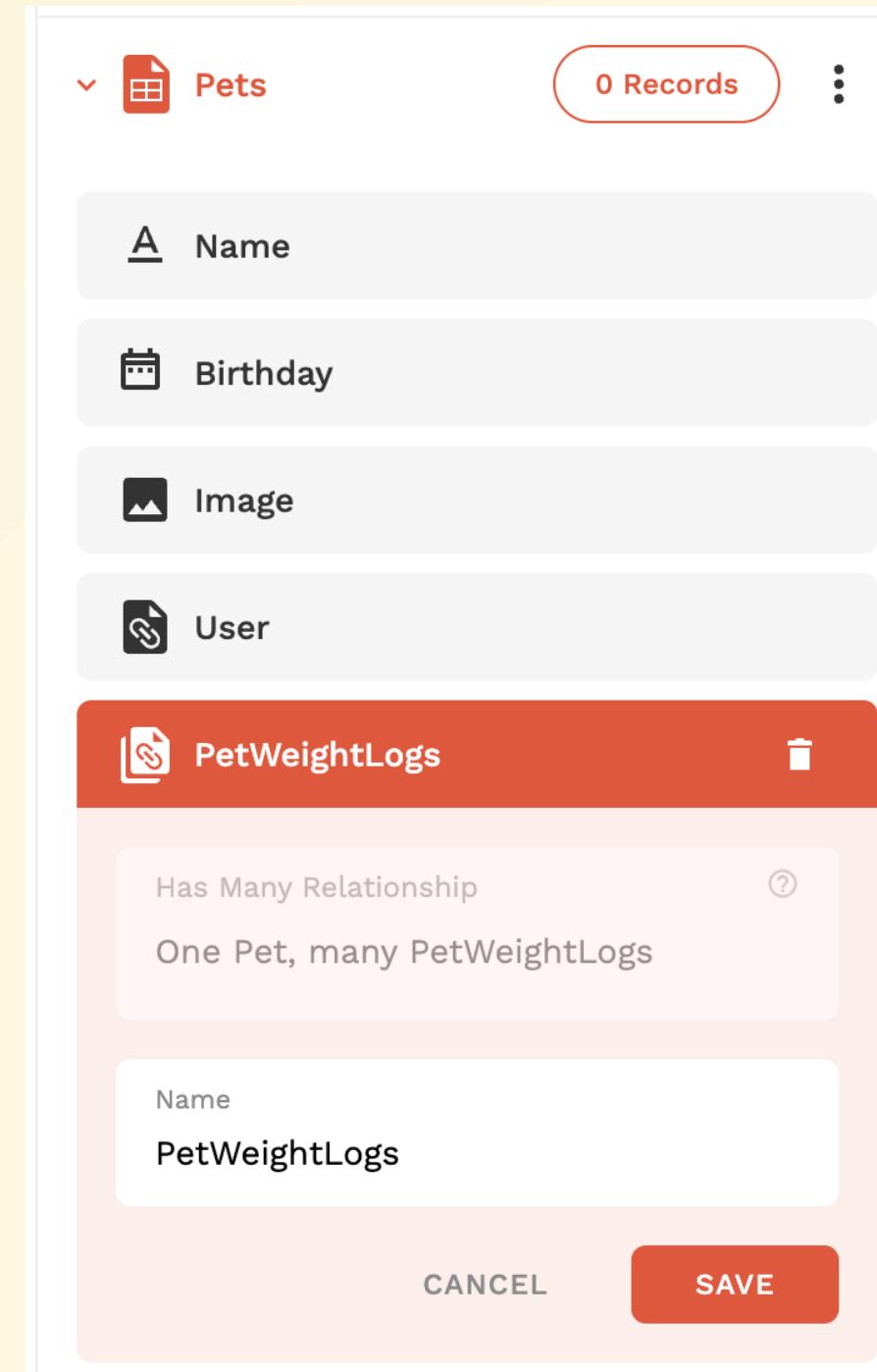
Pets

CANCEL SAVE

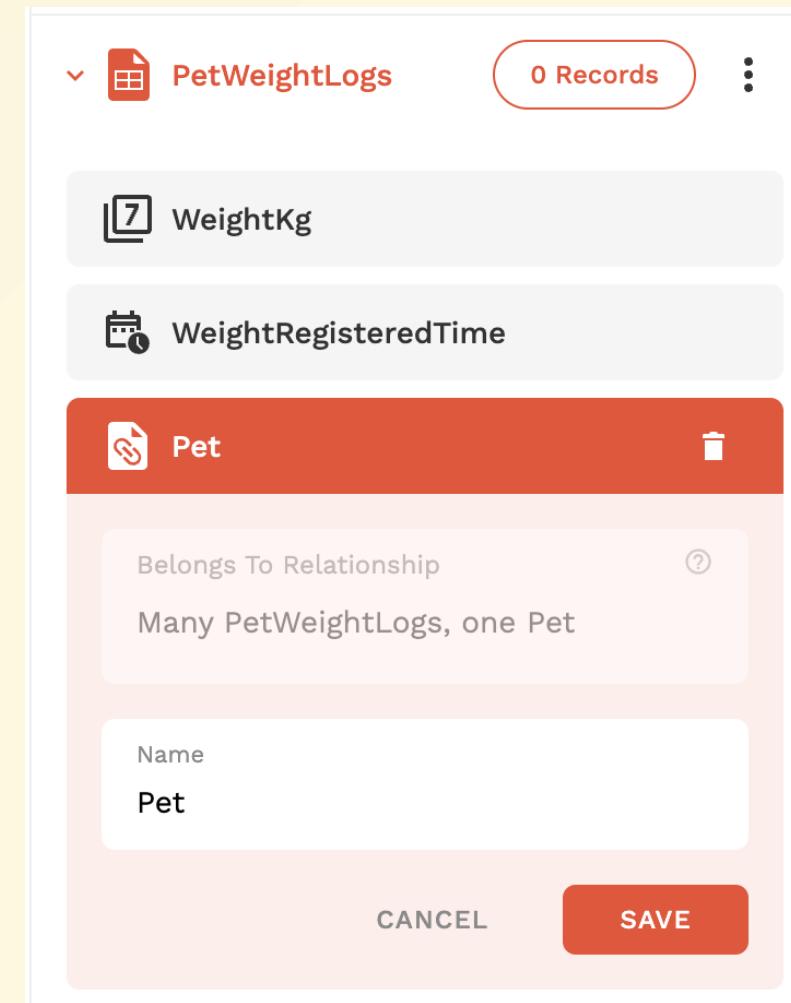
- If you check the Pets Collection, you will see that a Relationship with the Users Collection has been automatically added because the Relationship setting was made on the Users Collection side.
  - Since the Users Collection is one side, the "s" at the end is omitted and the Property name is "User".



- Add a Relationship to the Pets Collection with the PetWeightLogs Collection.
  - Select the Pets Collection to add a one-to-many Relationship with the PetWeightLogs Collection.



If you check the PetWeightLogs Collection, you will see that a Relationship with the Pets Collection has been automatically added because the Relationship setting was made on the Pets Collection side.



- Since the Pets Collection side is one side, the "s" at the end is omitted, and the Property name is "Pet".

# Reference: What happens if you include the pet weights and its registration times in the Pets Collection?

The record will be registered as follows, but in this case, you will have the troubles.

Pets						
	A Name	Image	Birthday	Weight(kg)	WeightRegisteredTime	Created
<input type="checkbox"/>	みる		8/8/2018	5.2	November 3, 2021 12:00 AM	a few seconds ago
<input type="checkbox"/>	みる		8/8/2018	5.1	November 2, 2021 12:00 AM	a minute ago
<input type="checkbox"/>	みる		8/8/2018	5	November 1, 2021 12:00 AM	a minute ago

## The troubles

- Because multiple Records with different pet weights and their registration times are registered for one pet, the pet's information (Name, Image, Birthday) is registered in duplicate.
  - In order to change the information of one pet, we have to update all the duplicated records, which makes the process more complicated.
- Adalo has a convenient function to automatically generate a form to register a record in a single collection, but since the collection is not divided by the unit to register data, it cannot be used.

That's it for the sample app database design.

It is recommended that you set up Adalo's database in the same state as the document to avoid confusion in the later work.

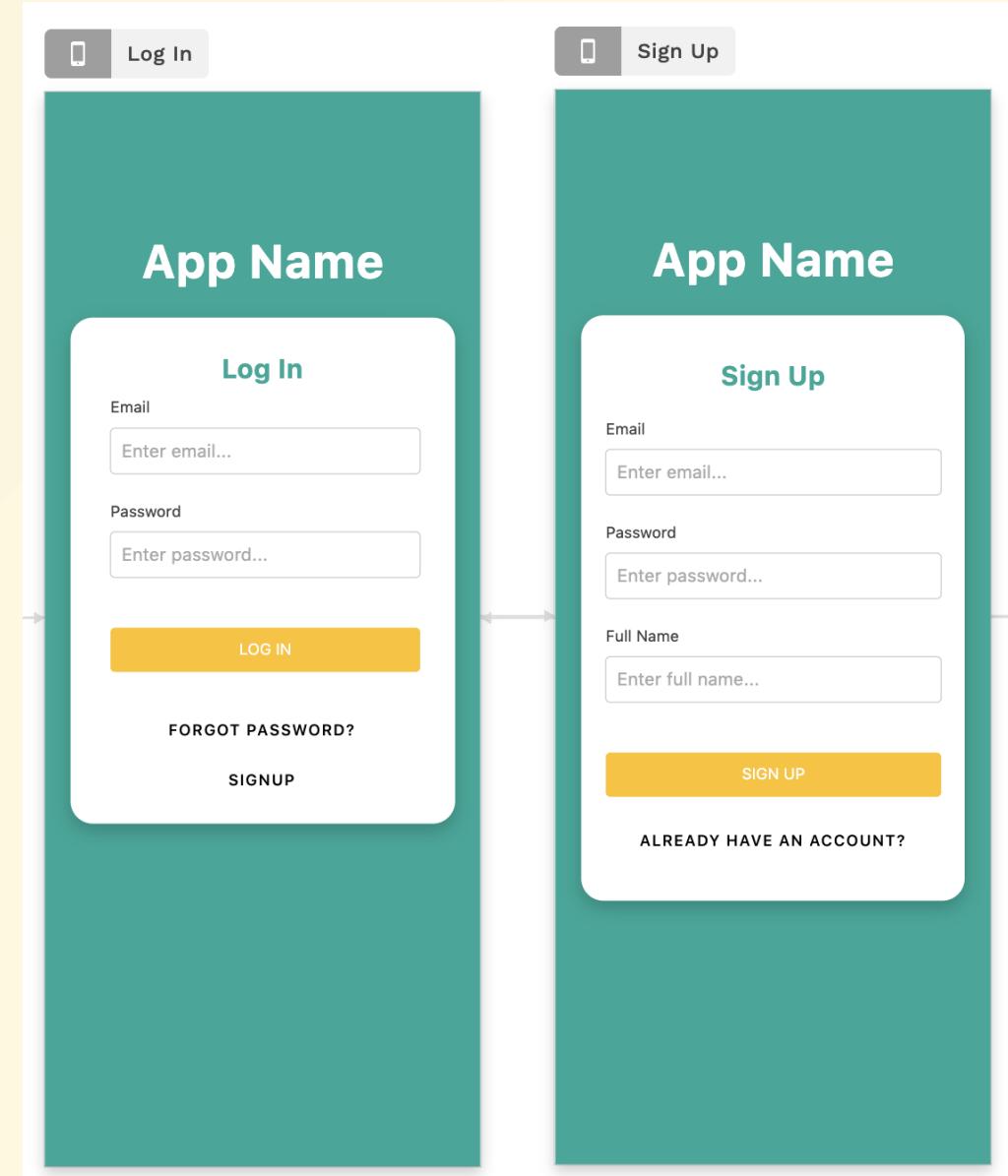
# Let's develop an app using the database

Let's develop a sample app using the database you designed.

## User registration screen, login screen

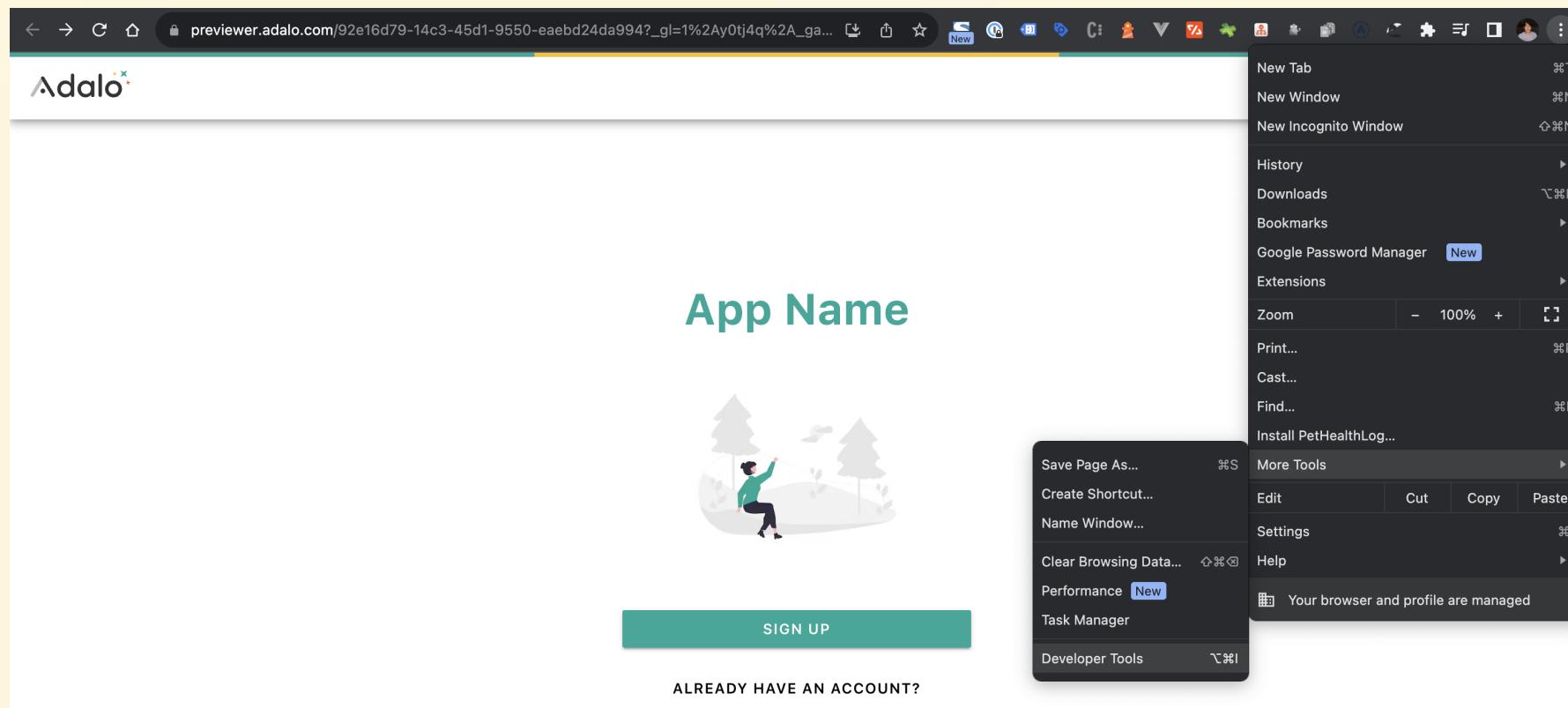
 User registration screen and login screen are generated by default.

- Check the preview Button to see how they works.



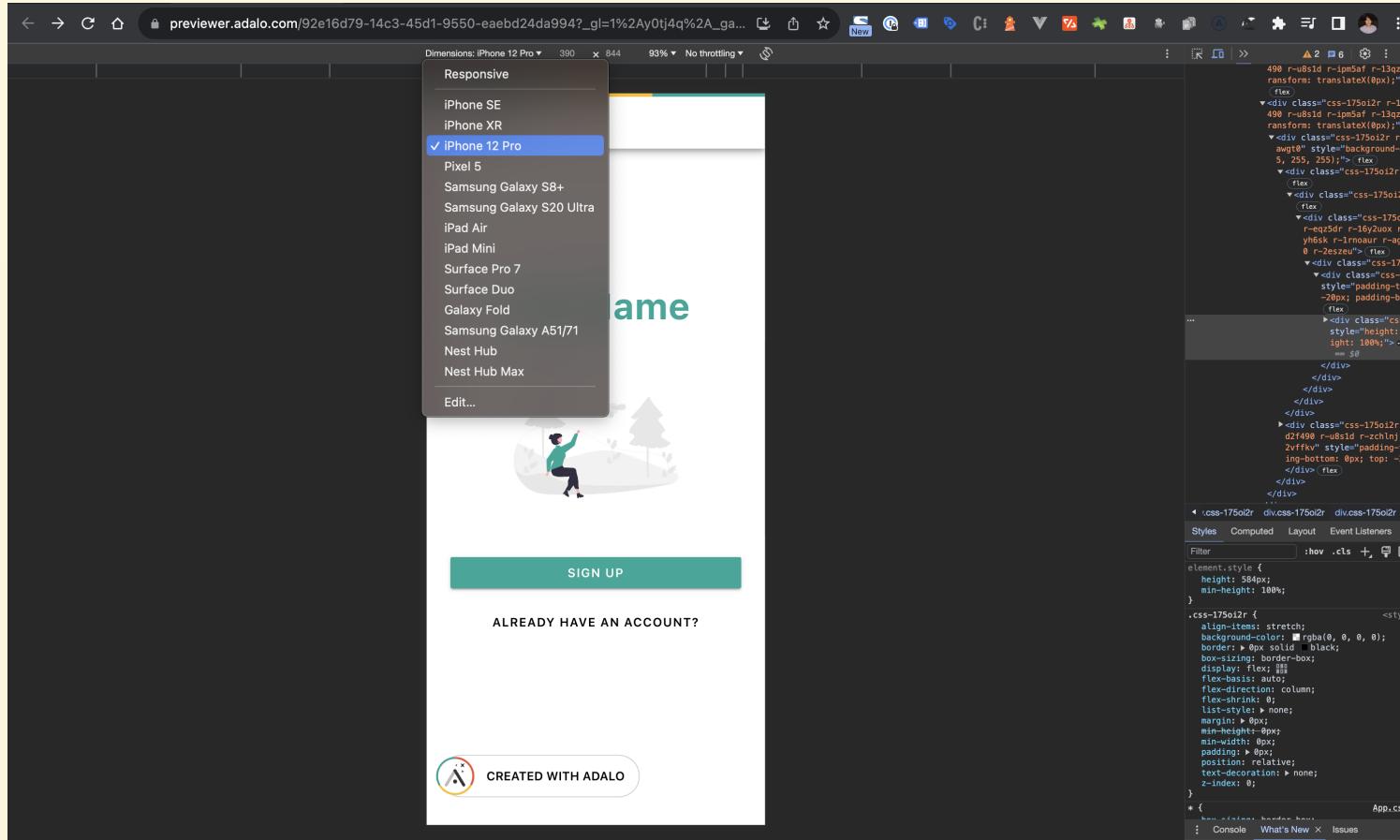
To create an app in Mobile First, we will now use the browser's developer tools to preview the app in Mobile size.

- In Chrome, follow these steps to open the Developer Tools
  - Top right three point reader > More Tools > Developer Tools

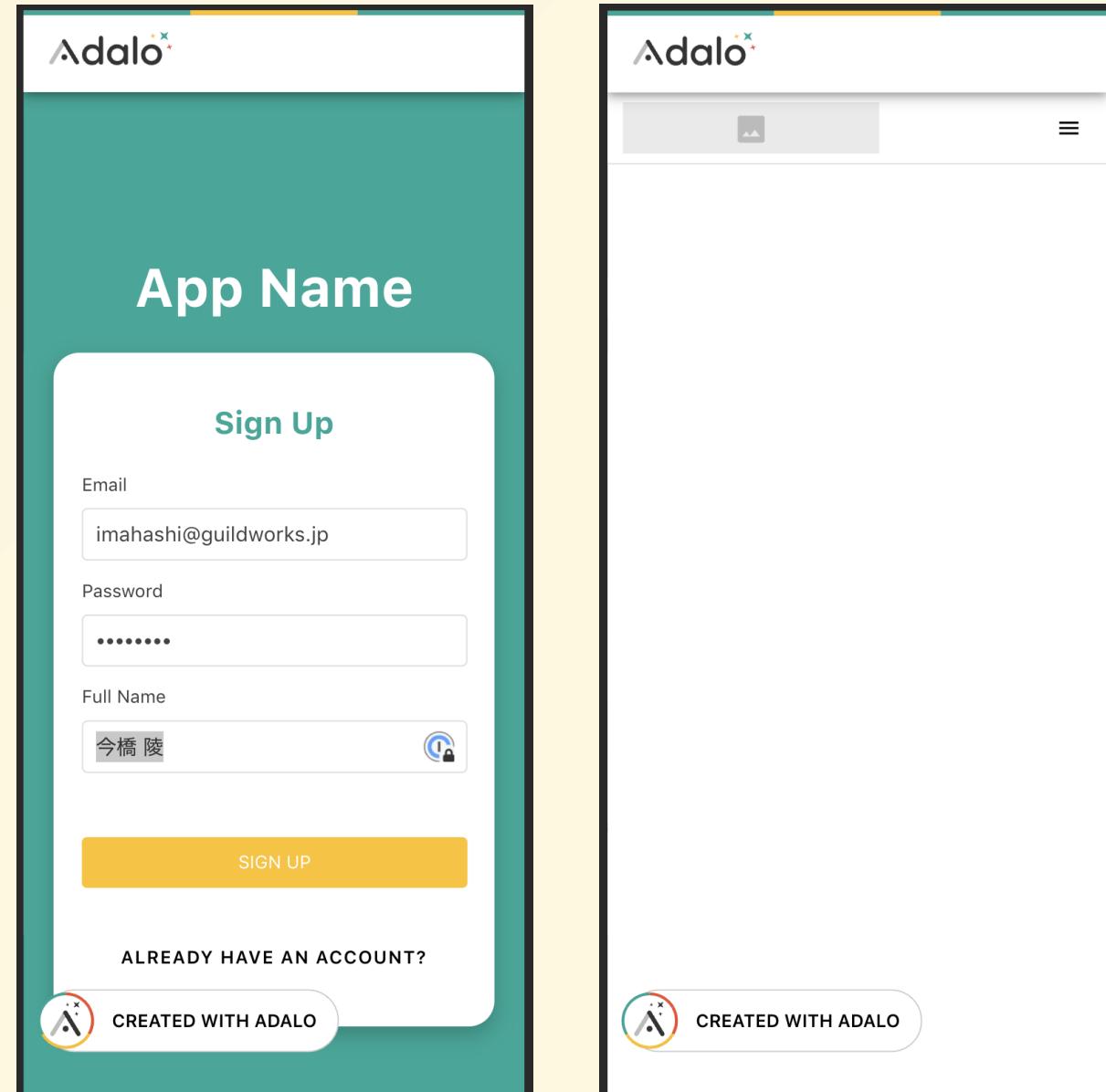


In Chrome's Developer Tools, you can check the display on various device screen sizes.

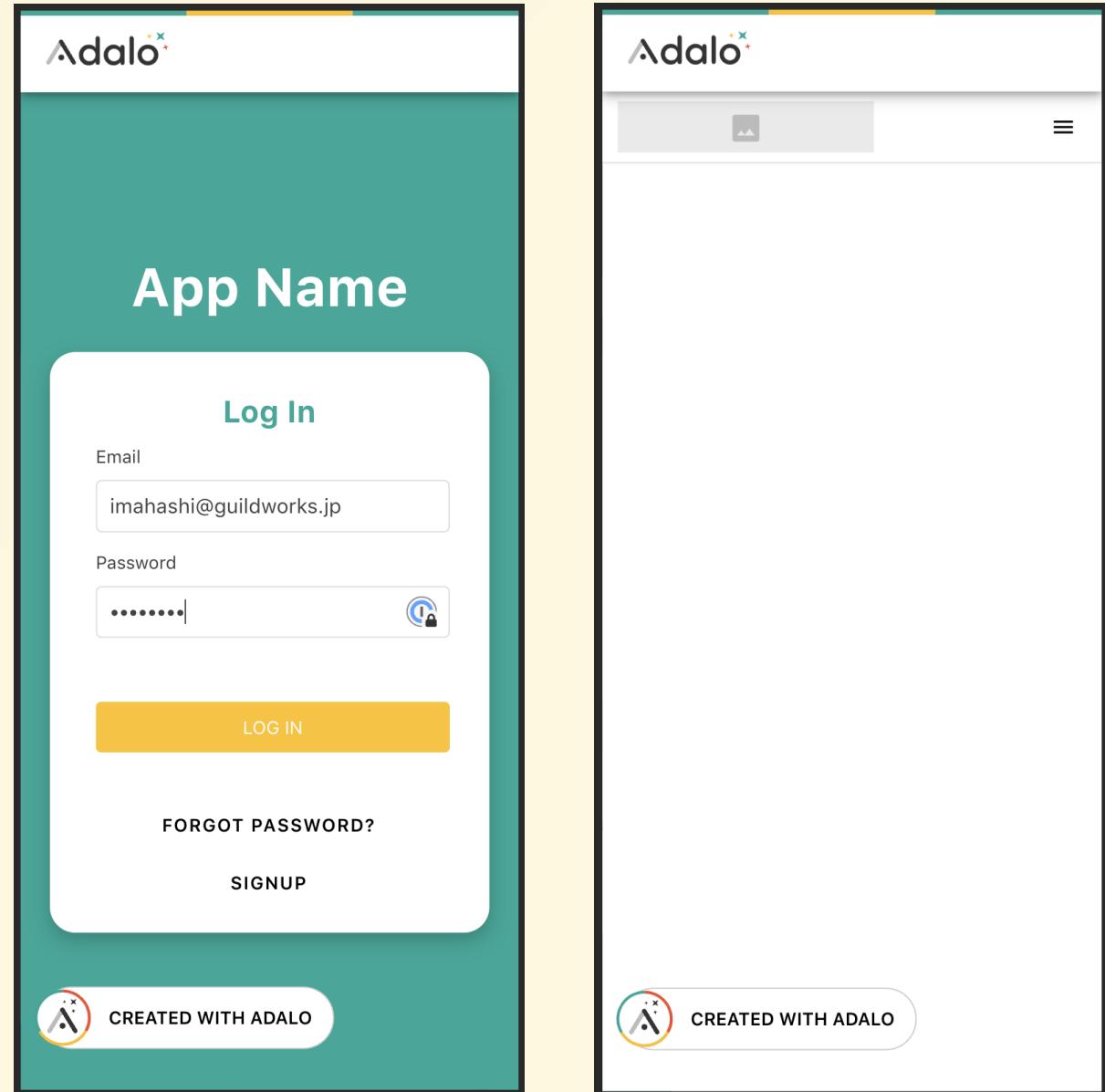
- Select iPhone 12 Pro to preview



- User Registration Screen
  - When you signup, you will be redirected to the Home screen.
  - Use the back button on the browser and click ALREADY HAVE AN ACCOUNT? to go to login screen.

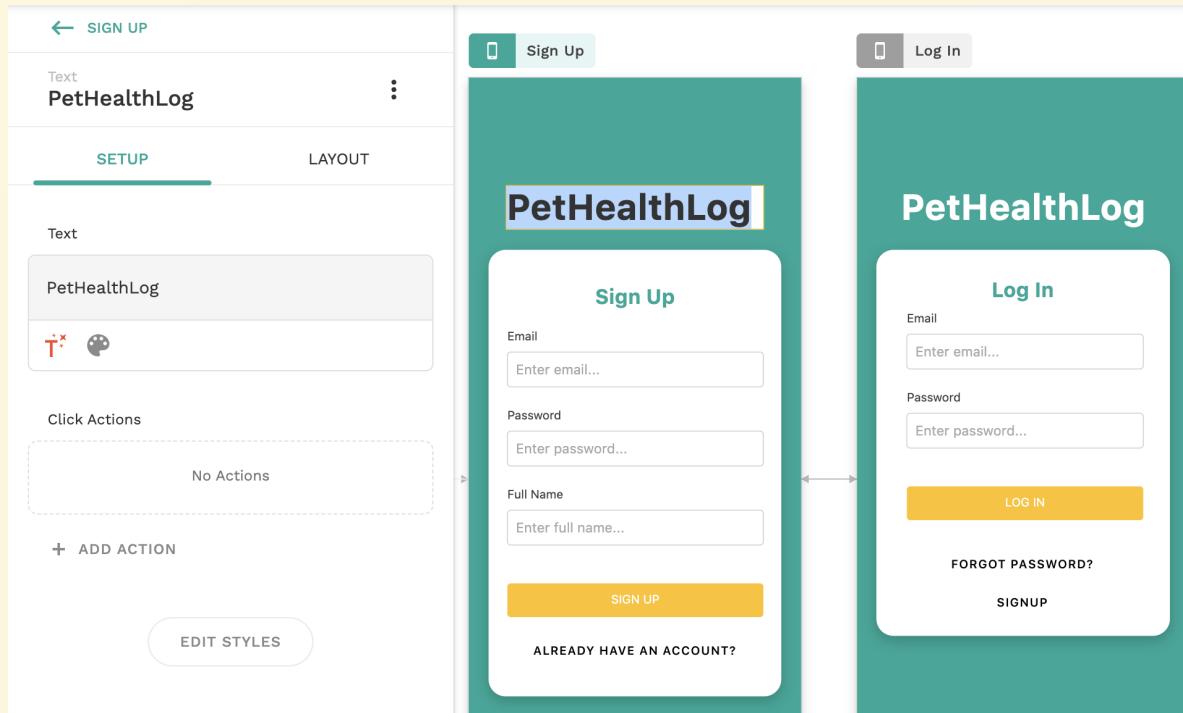


- Login screen
  - Log in with the same Email and Password that you registered earlier, then you will be redirected to the Home screen.



It seems like the registration screen and login screen are fine as they are.

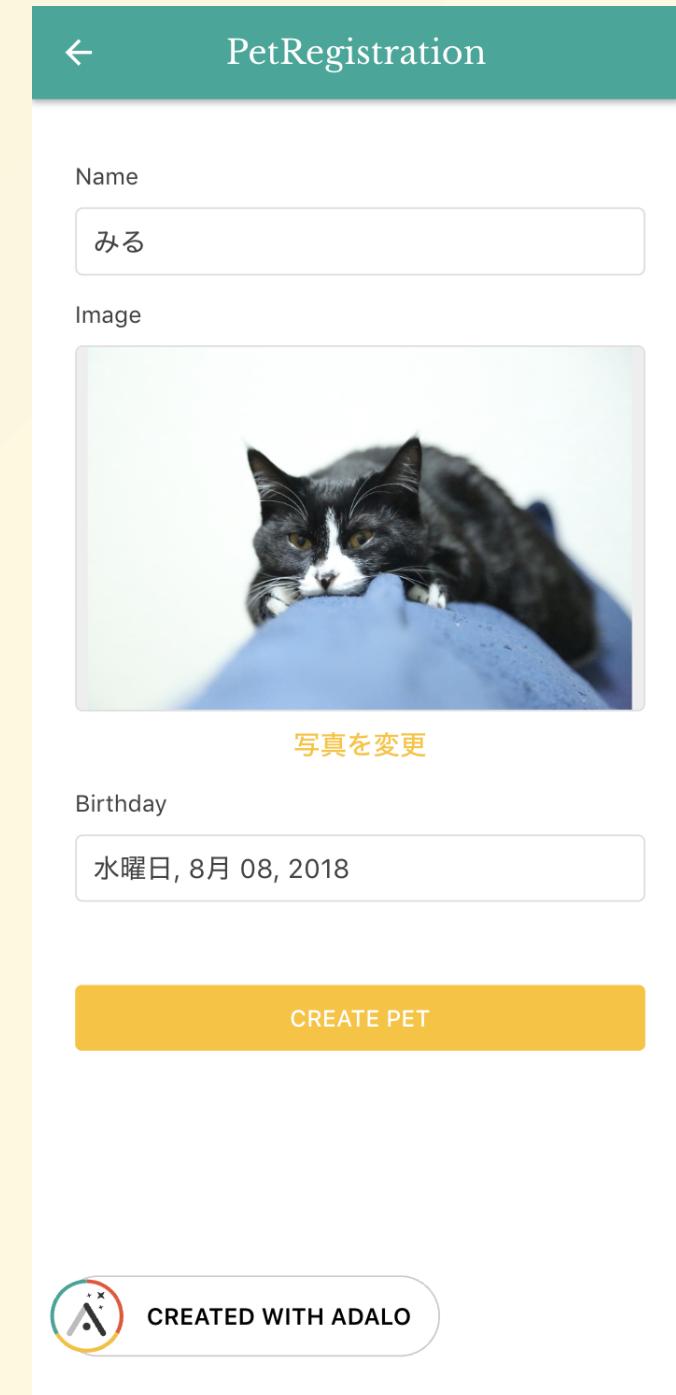
- Change the part labeled "App Name" to the name of the application.



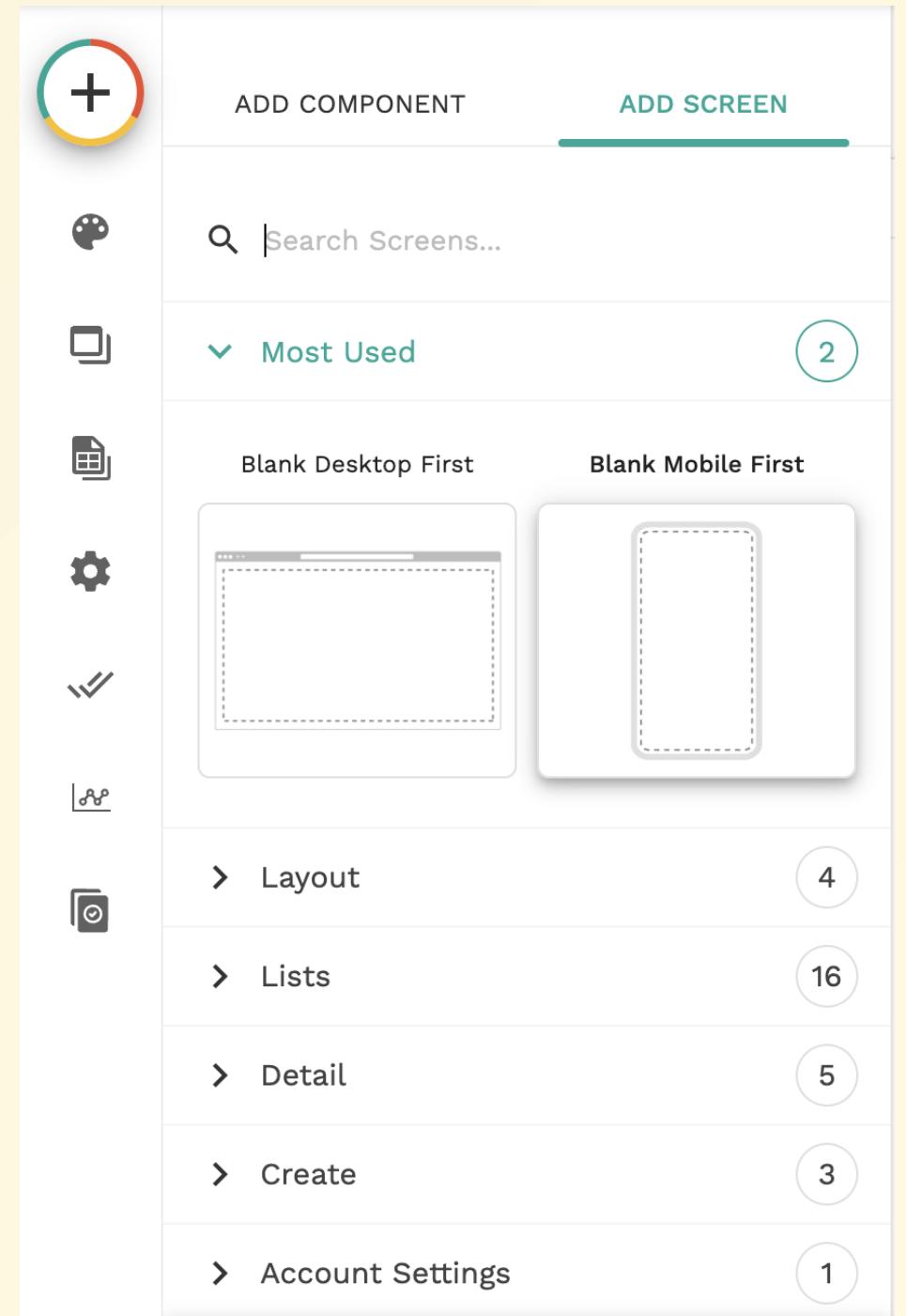
# Pet Registration Screen

- You can enter your pet's name.
- You can select your pet's photo.
- You can enter your pet's birthday.
- You can click the "Register" button to register your pet and move to the pet list screen.

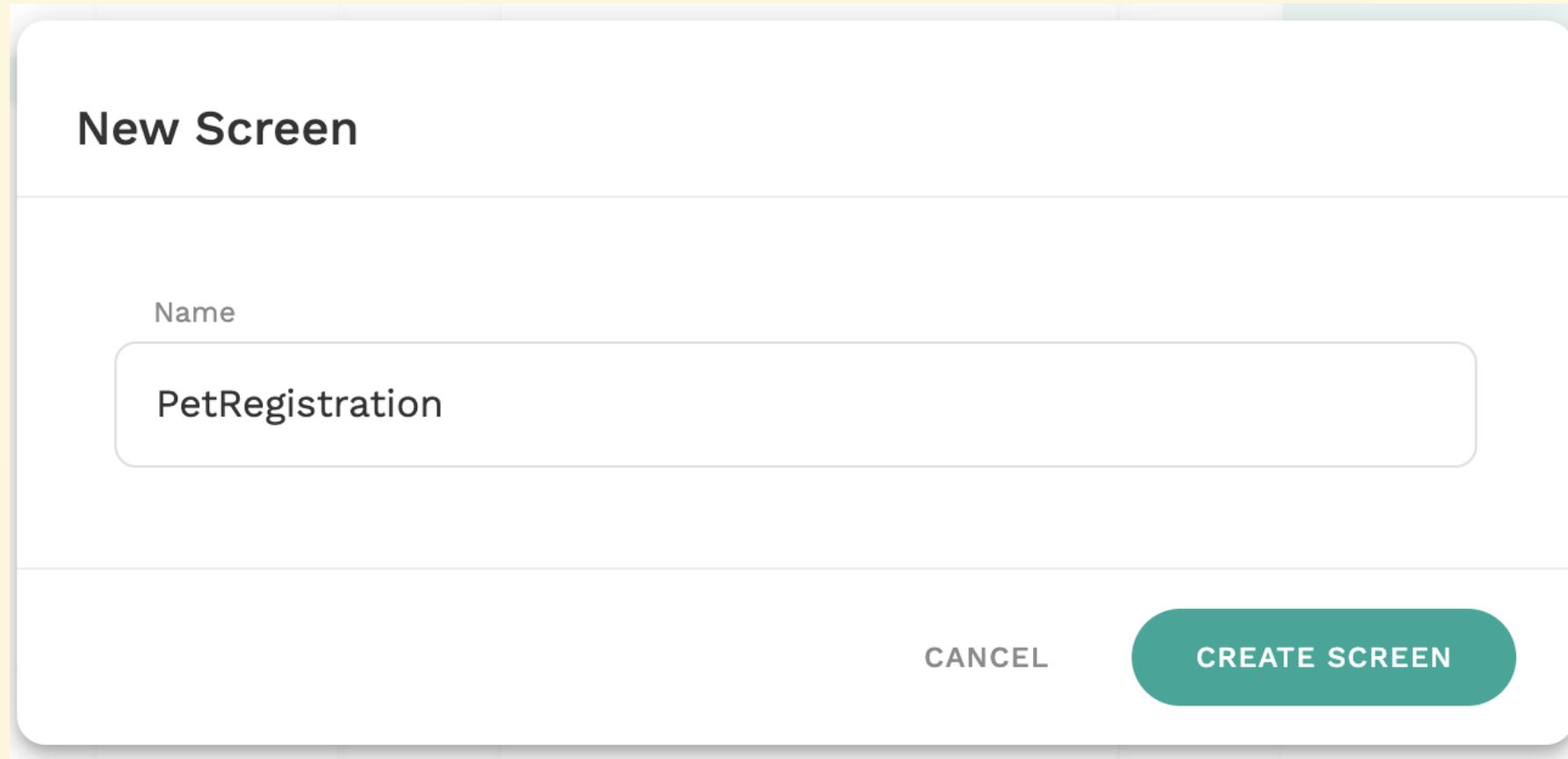
Let's create this screen!



- Select Blank Mobile First from ADD SCREEN.

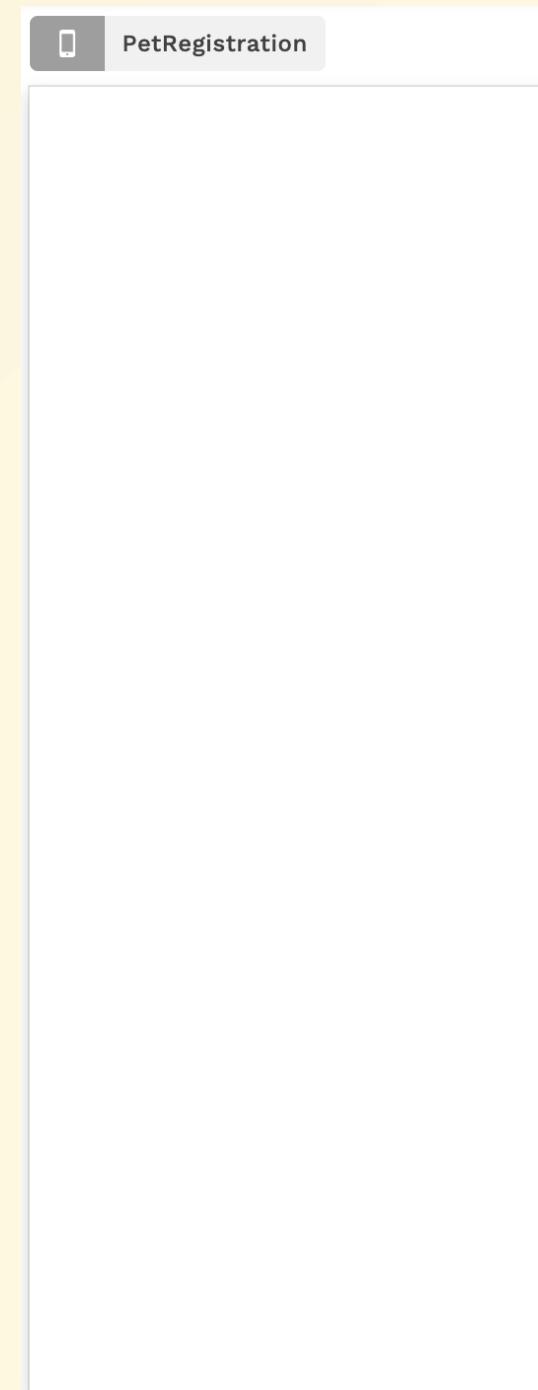


- Enter the Screen Name.

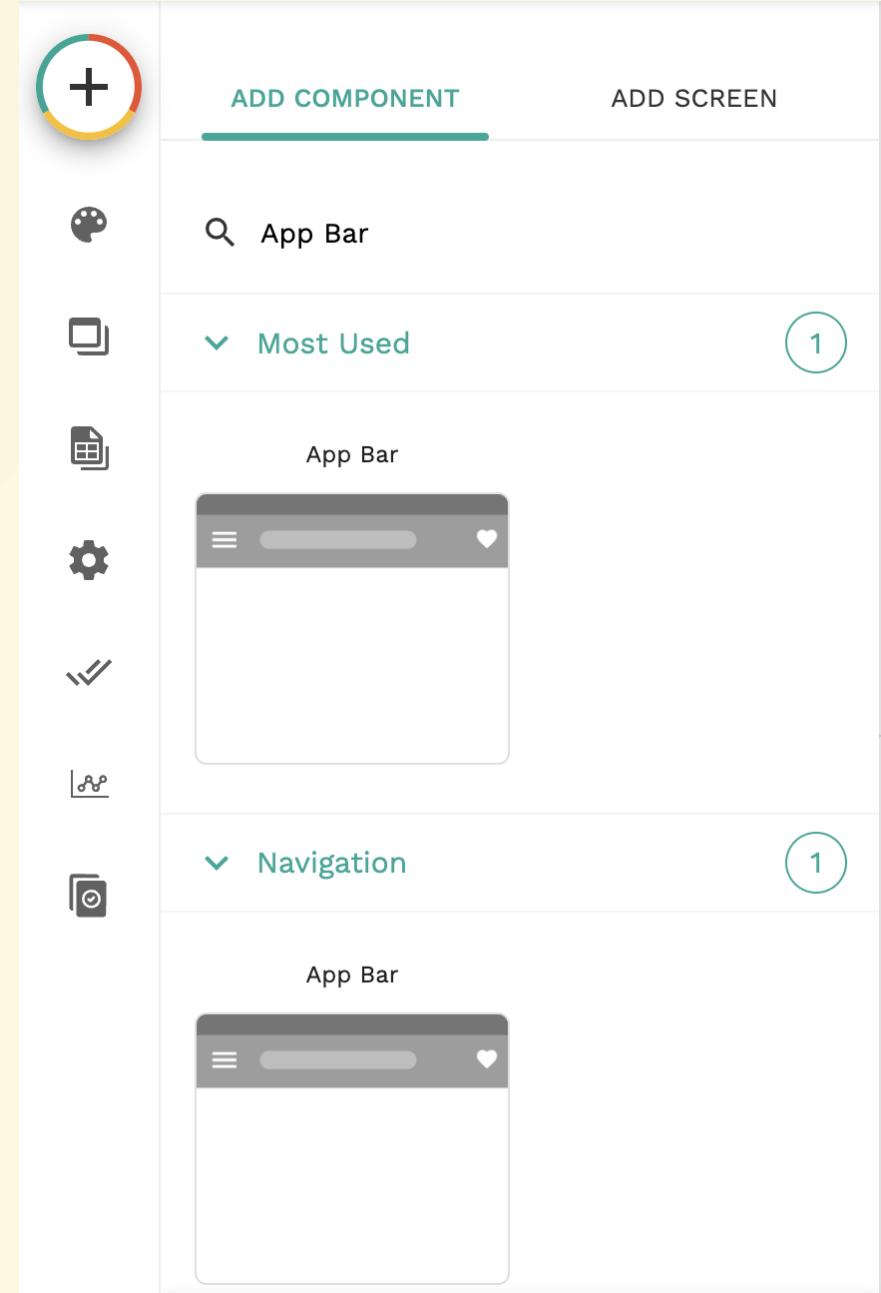


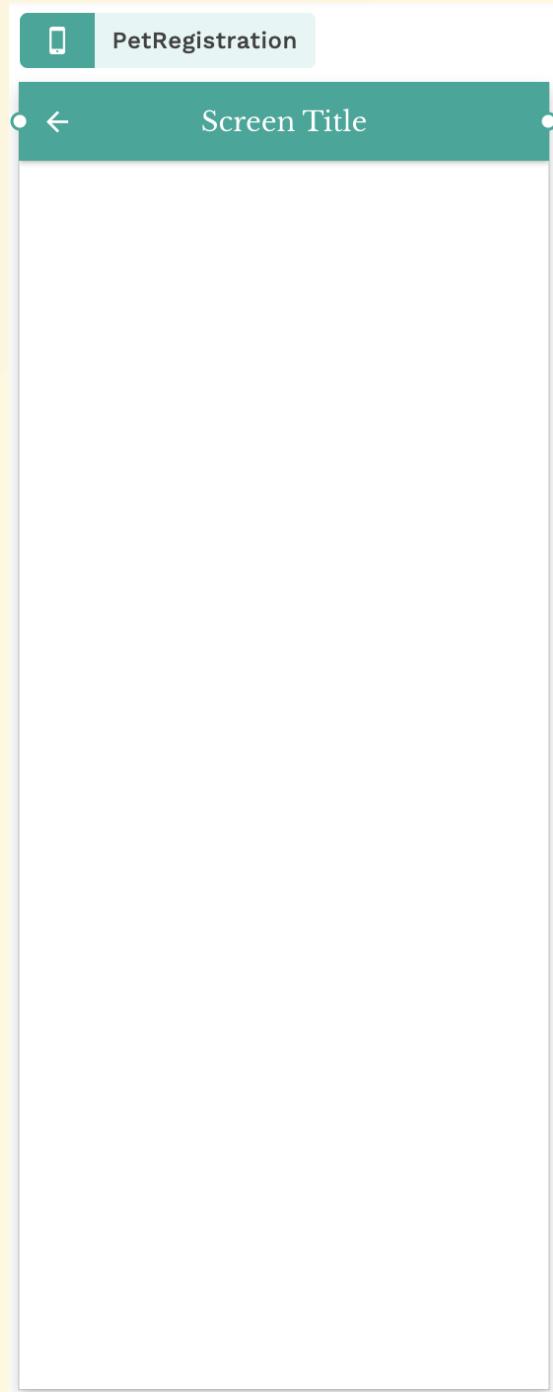
The Screen has been added.

Let's add components on this screen.



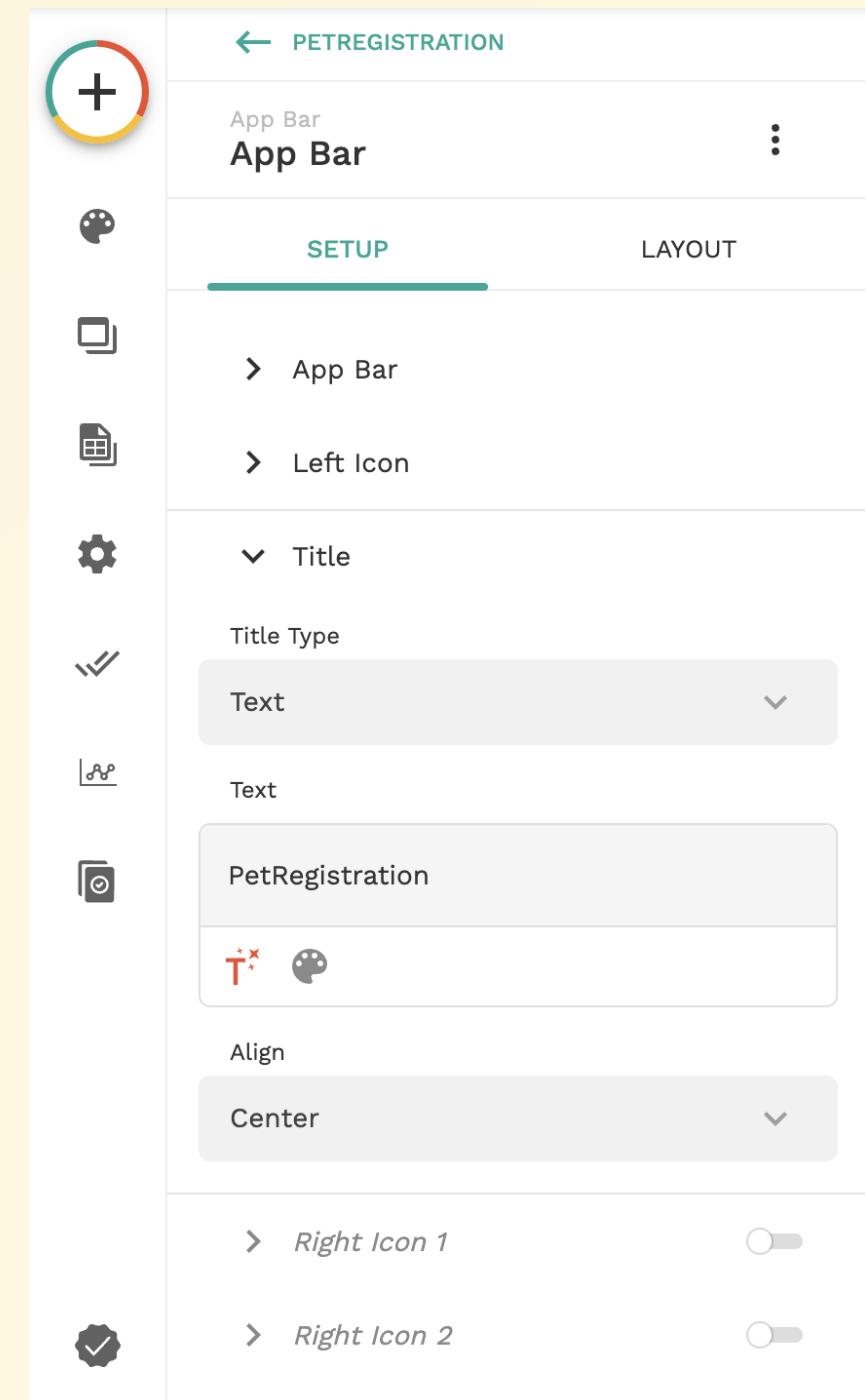
- Select App Bar from ADD COMPONENT.



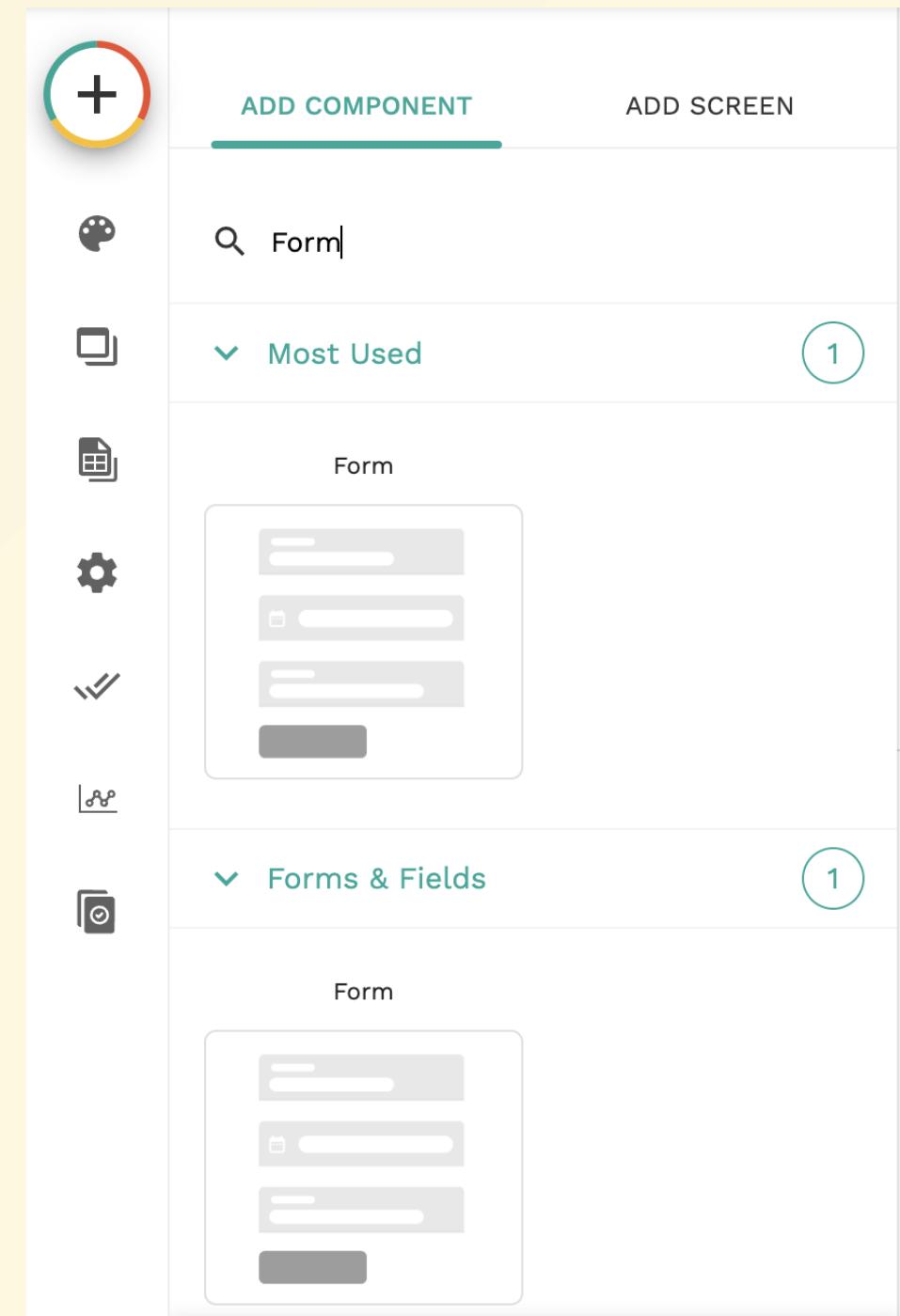


- Place it on the screen.

- Change the value of Title > Text to the screen name (PetRegistration).



- Select Form from ADD COMPONENT.



- Place it on the screen.

The image shows a wireframe of a mobile application screen. At the top left is a small icon of a smartphone. To its right, the text "PetRegistration" is displayed in a light gray font. Below this is a teal-colored header bar with a white back arrow on the left and the text "PetRegistration" in white. The main content area contains three input fields labeled "Field 1", "Field 2", and "Field 3", each consisting of two stacked horizontal lines. A yellow "SAVE" button is located at the bottom right of the content area. The entire screen is enclosed in a white border.

- Select Pets for "Which data collection?
  - A form will be automatically generated for the selected collection.
- Select Create New pet for What do you want the form to do?

The image shows two screenshots of a mobile application interface for 'PetRegistration'.

**Left Screenshot (Setup Screen):**

- Header: PETREGISTRATION
- Section: Form
- Sub-section: Form
- Buttons: SETUP (underlined), LAYOUT, and three vertical dots.
- Section: Form
- Question: Which data collection?
- Dropdown: Pets
- Question: What do you want the form to do?
- Dropdown: Create New pet
- Section: Fields
- Section: Submit Button

**Right Screenshot (Form View):**

- Header: PetRegistration
- Section: Name
- Text input: Enter name...
- Section: Birthday
- Date input: Thursday, May 4th, 2019
- Section: Image
- Text: Choose Photo
- Button: CREATE PET

- Change the order of Birthday and Image in Fields by drag and drop.

The image shows two screenshots of a mobile application interface for 'PetRegistration'.

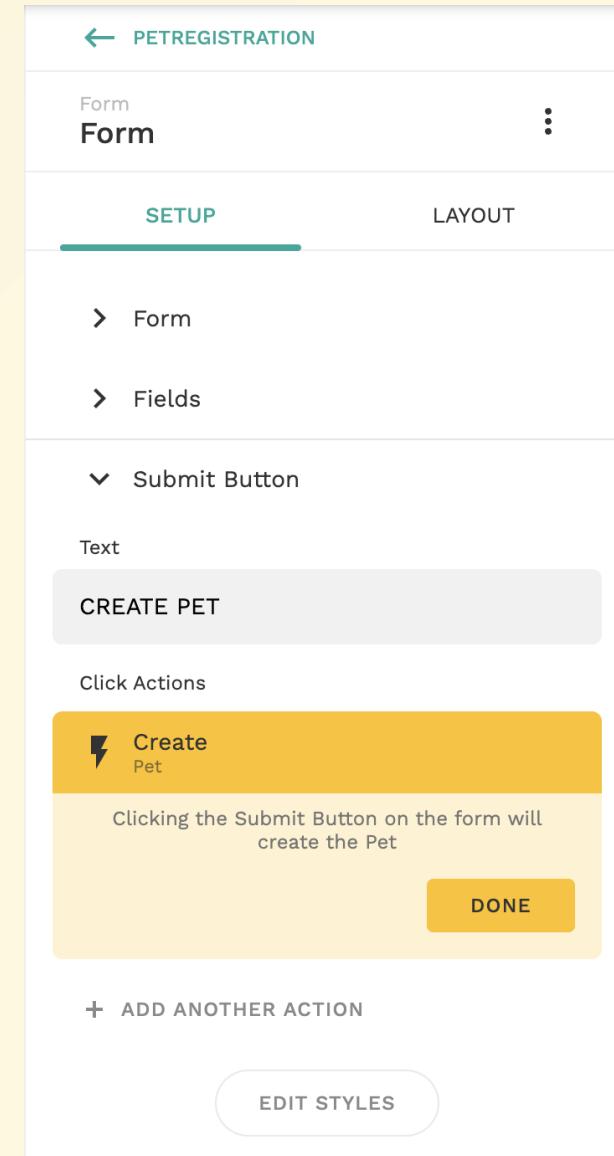
**Left Screenshot (Setup View):**

- Header:** PETREGISTRATION
- Section:** Form
- Sub-section:** Form
- Buttons:** SETUP (highlighted), LAYOUT, and three vertical dots.
- Form Fields:**
  - Name
  - Image
  - Birthday
- Actions:** ADD VISIBLE FIELD, Set Automatically, and ADD AUTOMATIC FIELD.

**Right Screenshot (Preview View):**

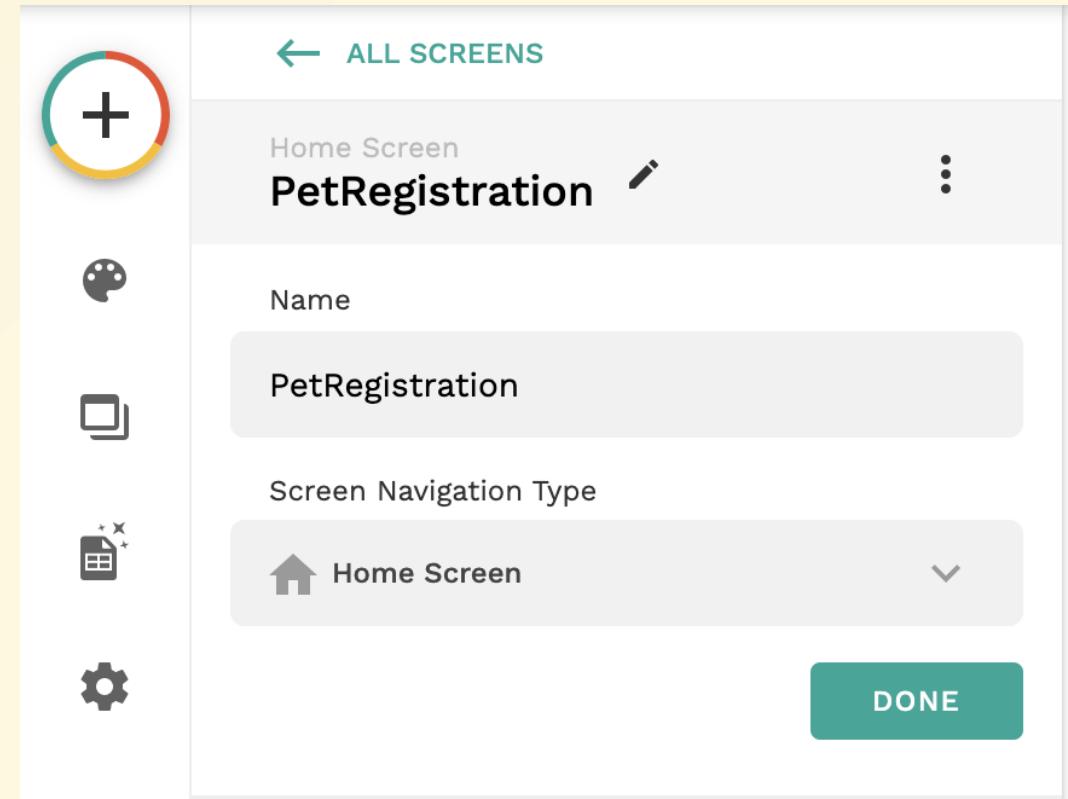
- Header:** PetRegistration
- Section:** PetRegistration
- Fields:**
  - Name: Enter name...
  - Image: Choose Photo
  - Birthday: Thursday, May 4th, 2019
- Action:** CREATE PET

- Make sure Create Pet is set in ClickActions of Submit Button

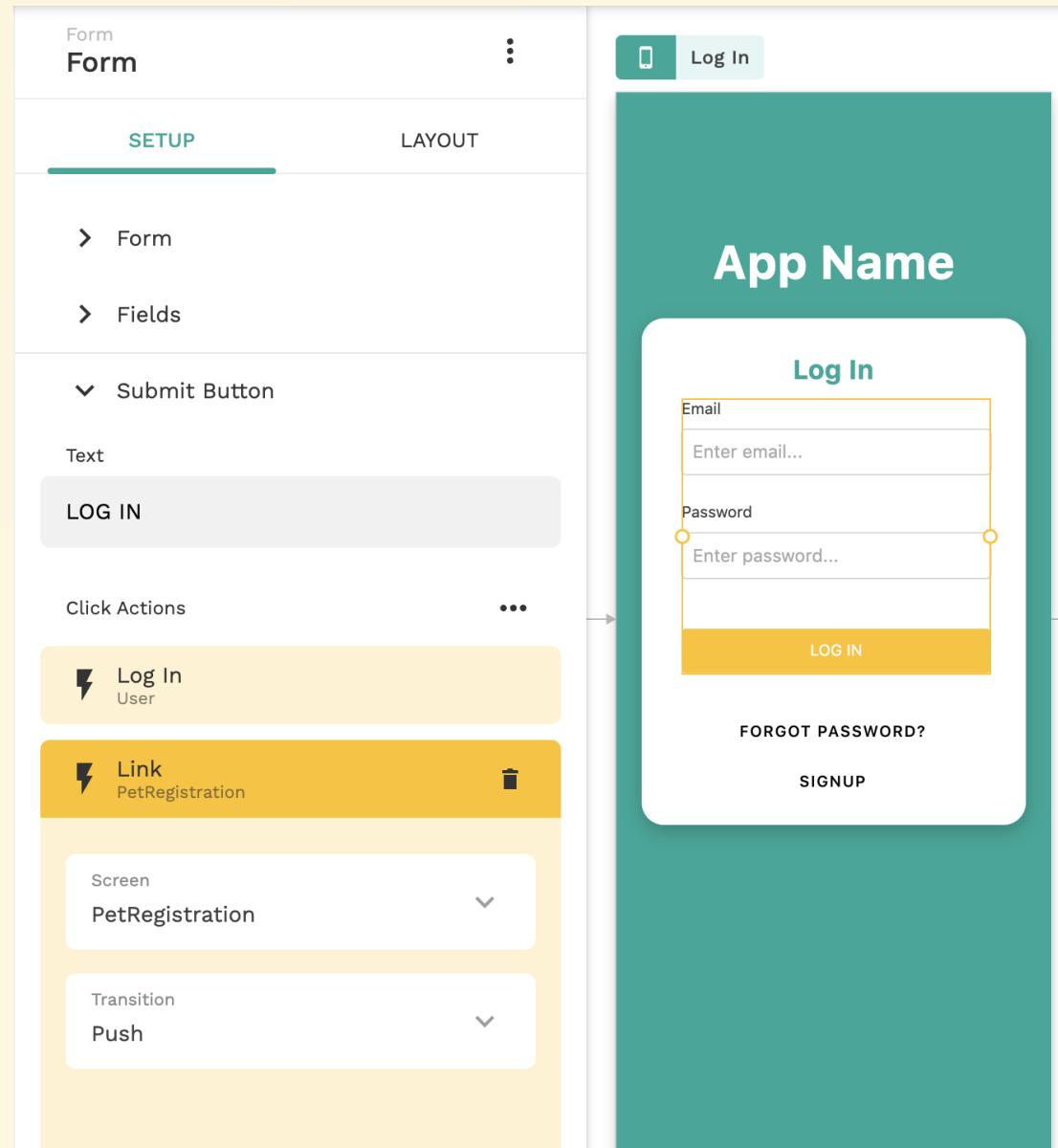


Since there is no link yet, we can't display it, so let's make it possible.

- Make it Home Screen to be the first screen that appears when you are logged in
  - Select "Pet Registration" from "Screens" and change "Screen Navigation Type" to "Home Screen"

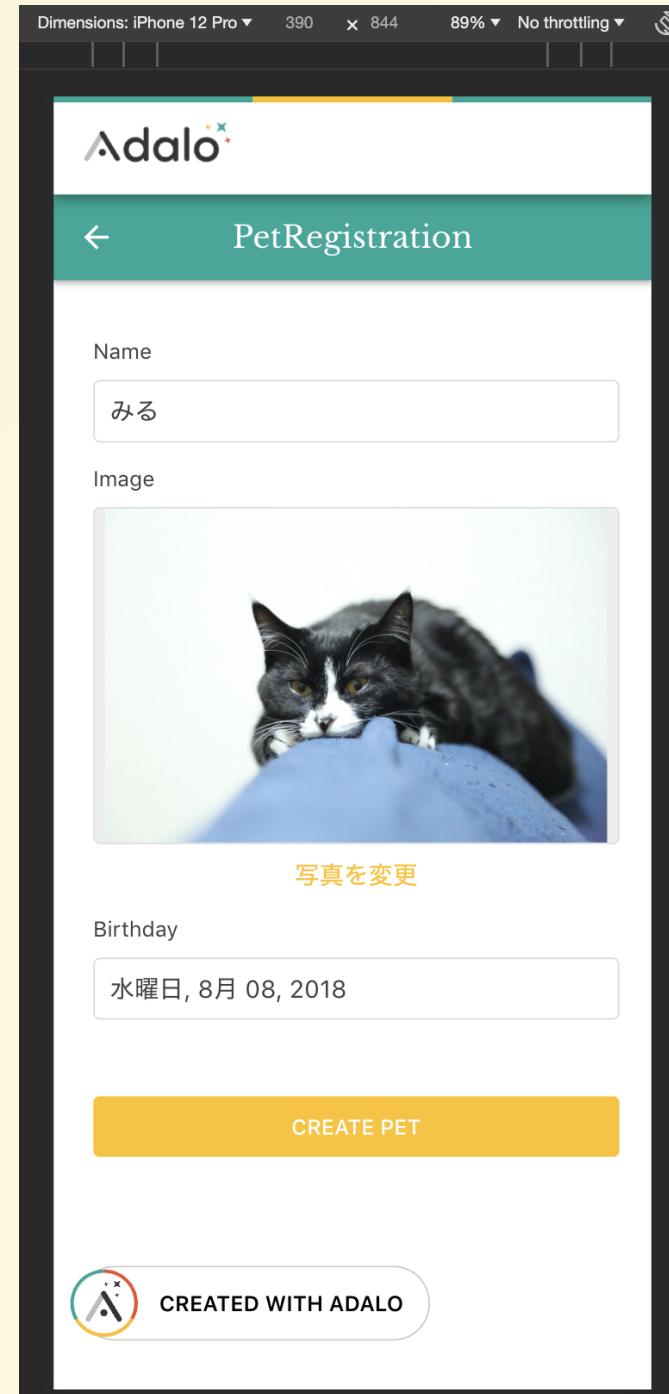


- Open Form > Submit button on the login screen, and change the Screen of Link to the PetRegistration.



# Let's see how the Pet Registration Screen works.

- After logging in with the preview function, you can view the pet registration screen.
- You can enter a name, select an image, and choose a birthday.
- Press CREATE PET button to register your pet



After registering the pet, it is OK when the Record is registered in the Pets Collection of the database.

The screenshot shows a database interface with a sidebar on the left and a main table view on the right.

**Left Sidebar:**

- + Database Collections
- Database Collections
- > Users 1 Record
- Pets 1 Record (highlighted)
- Name
- Birthday
- Image
- User
- PetWeightLogs
- + ADD PROPERTY

**Main View:**

**Pets**

	Name	Birthday	Image	User	PetWeightLogs
<input type="checkbox"/>	みる	8/8/2018		imahashi@guildworks.jp	

+ ADD PET    🔒    ⚡    ⬤    ⬧    🔍

DONE

The pet registration screen is done.

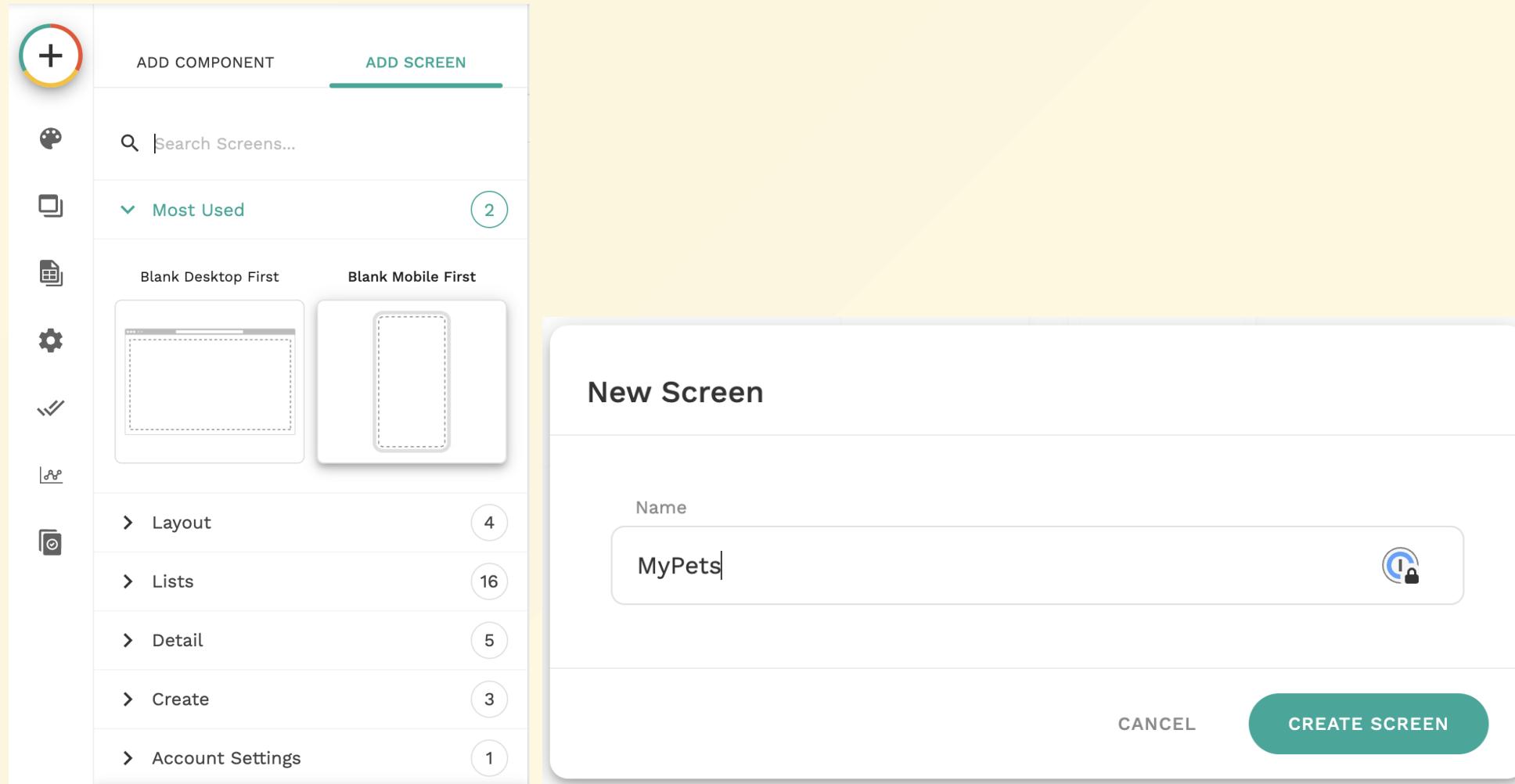
## ペット一覧画面

- Registered pets can be displayed in a list.
- Click on a pet to move to the pet details screen.
- Click the icon in the lower right corner to move to the pet registration screen.

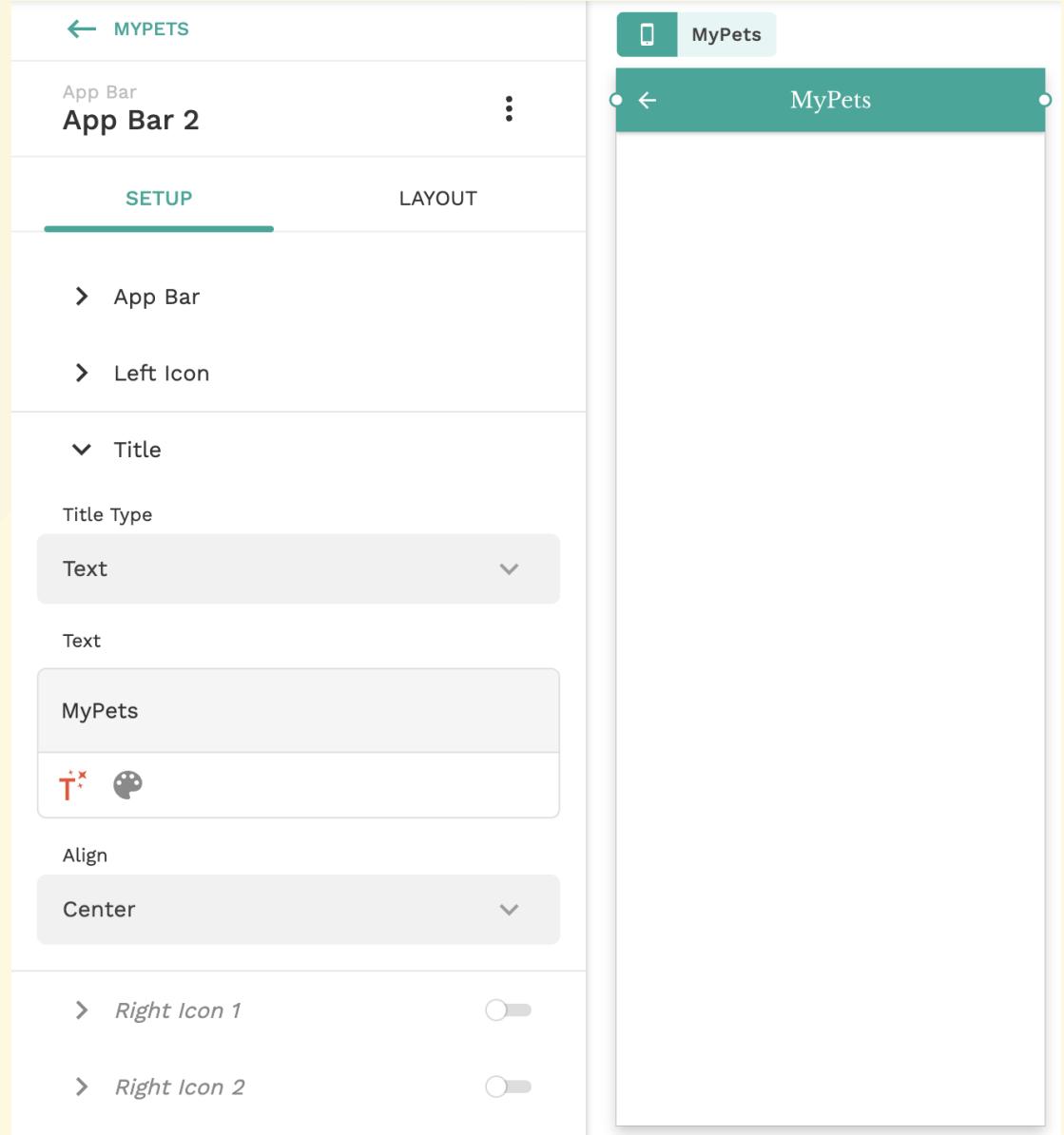
Next, let's create this screen.



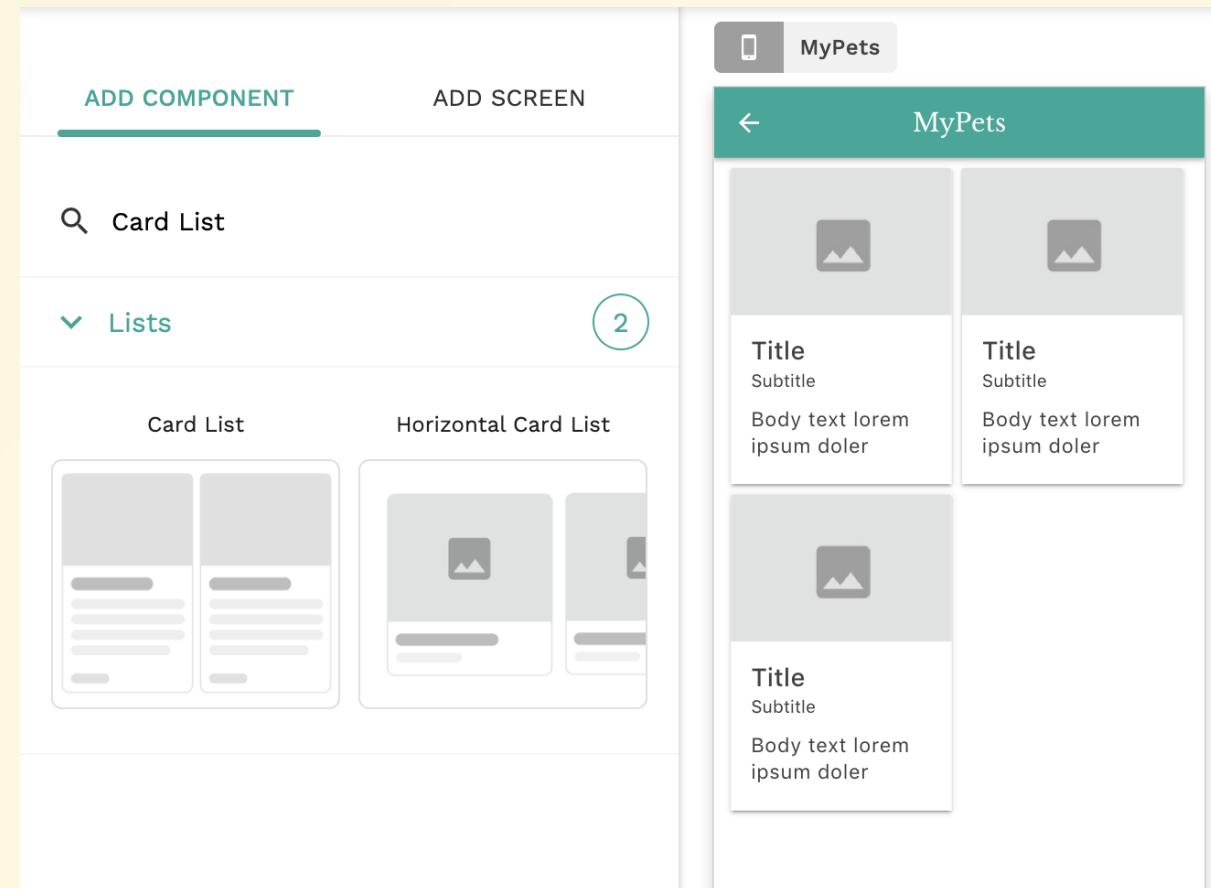
- Select Blank Mobile First from ADD SCREEN and enter Screen Name



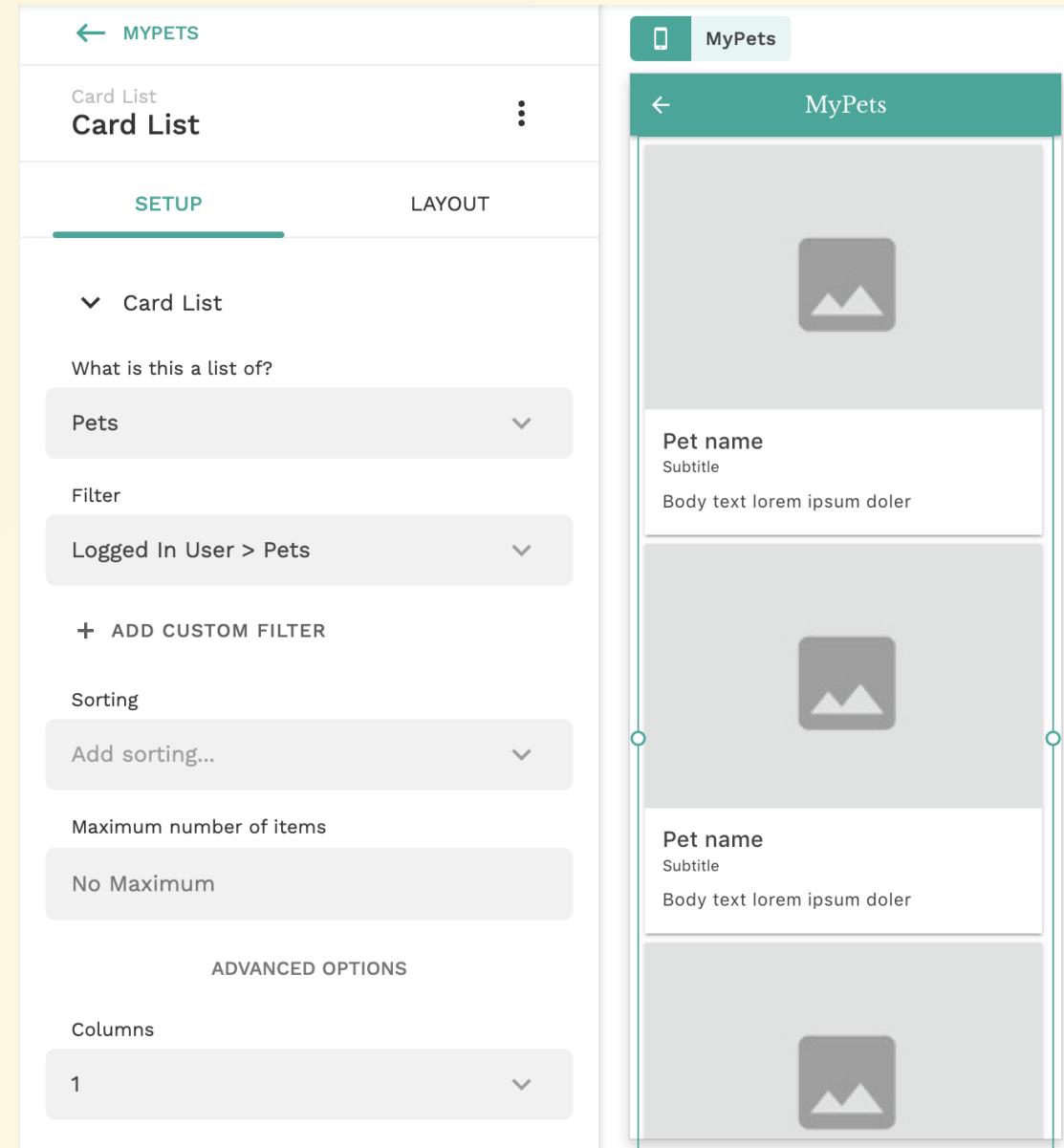
- Select App Bar from ADD COMPONENT and place it on the screen
- Change the value of Title > Text to the screen name (MyPets)



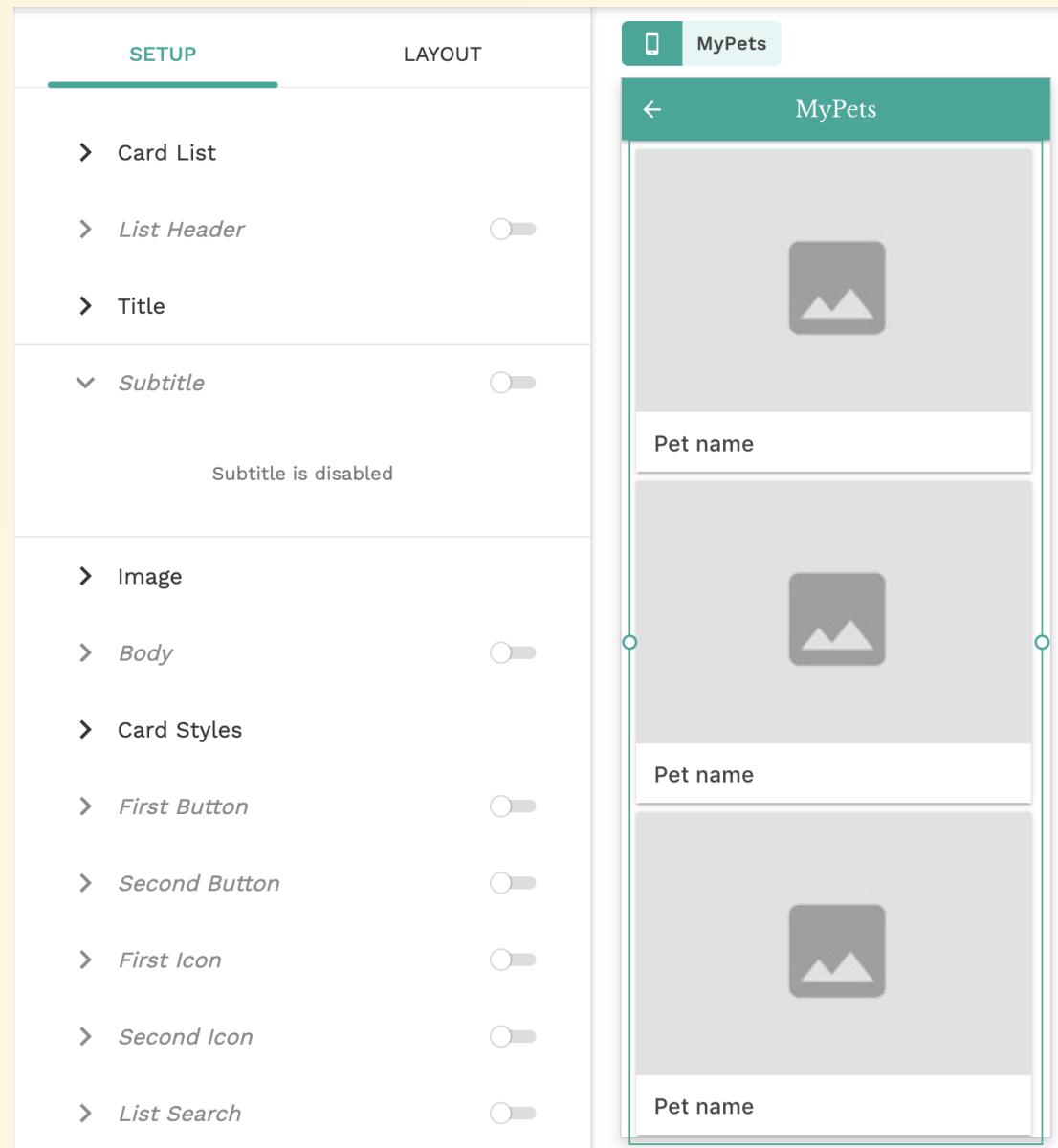
- Select Card List from ADD COMPONENT and place it on the screen



- Select Pets under What is this a list of?
- Select Logged In User > Pets in Filter
- Change the value of Columns to 1

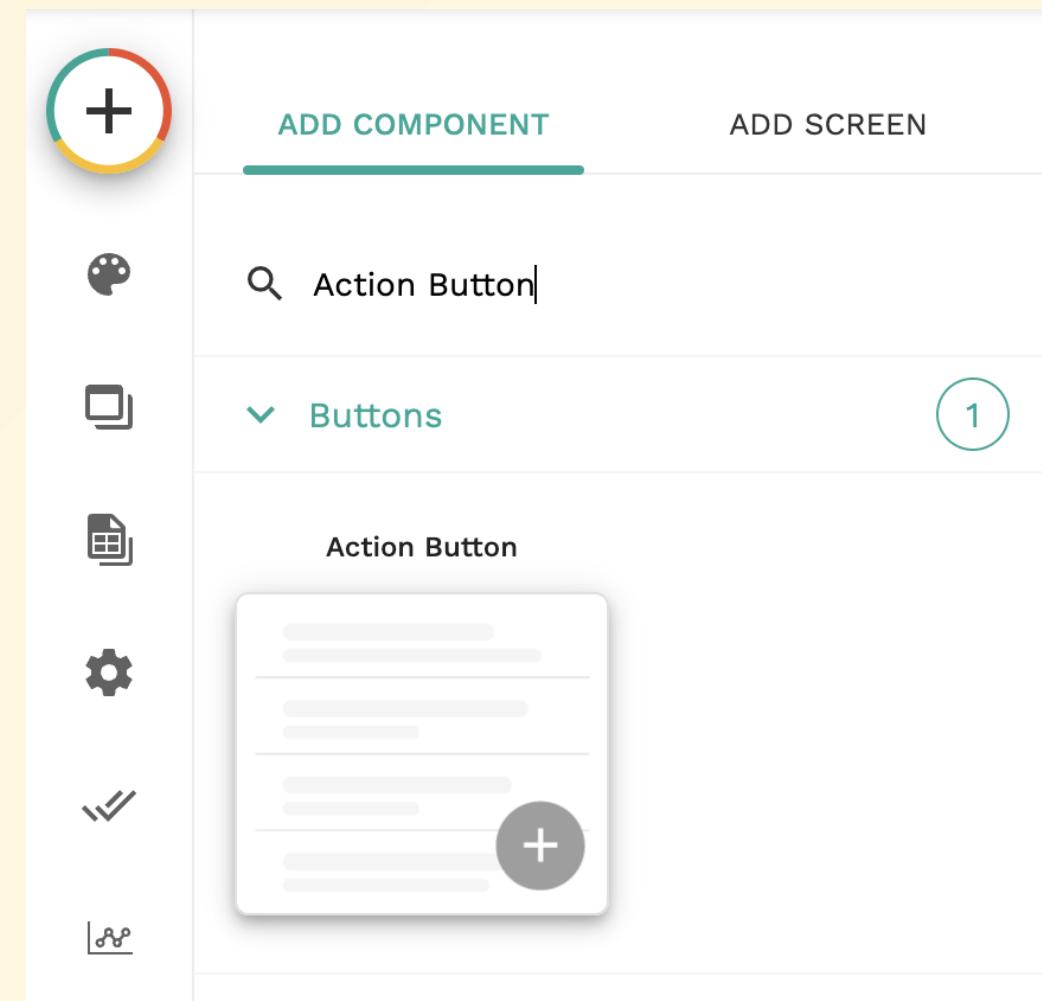


- Turn off the unwanted Subtitle and Body toggles to hide them.

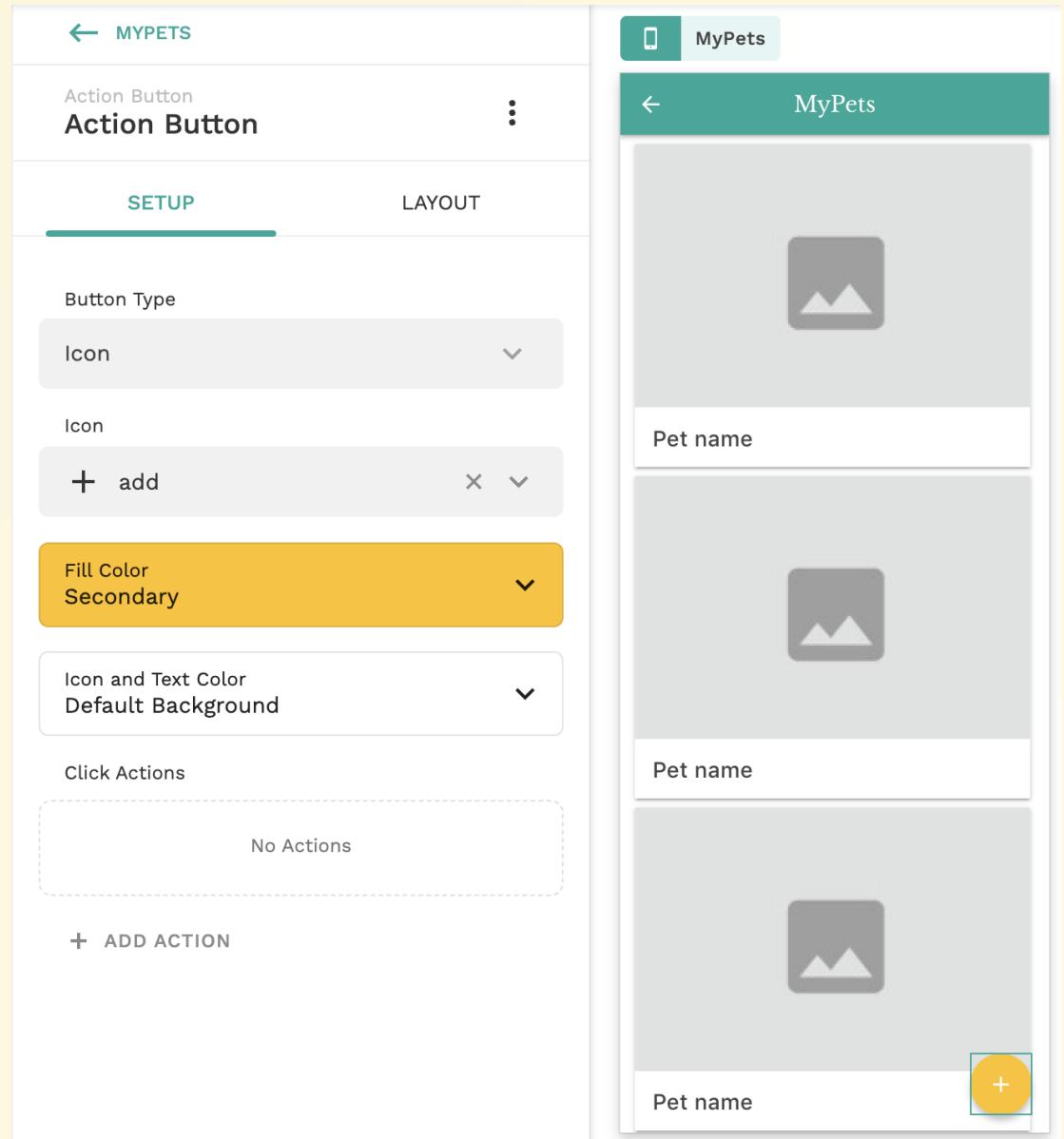


Next, add a lead to the pet registration screen

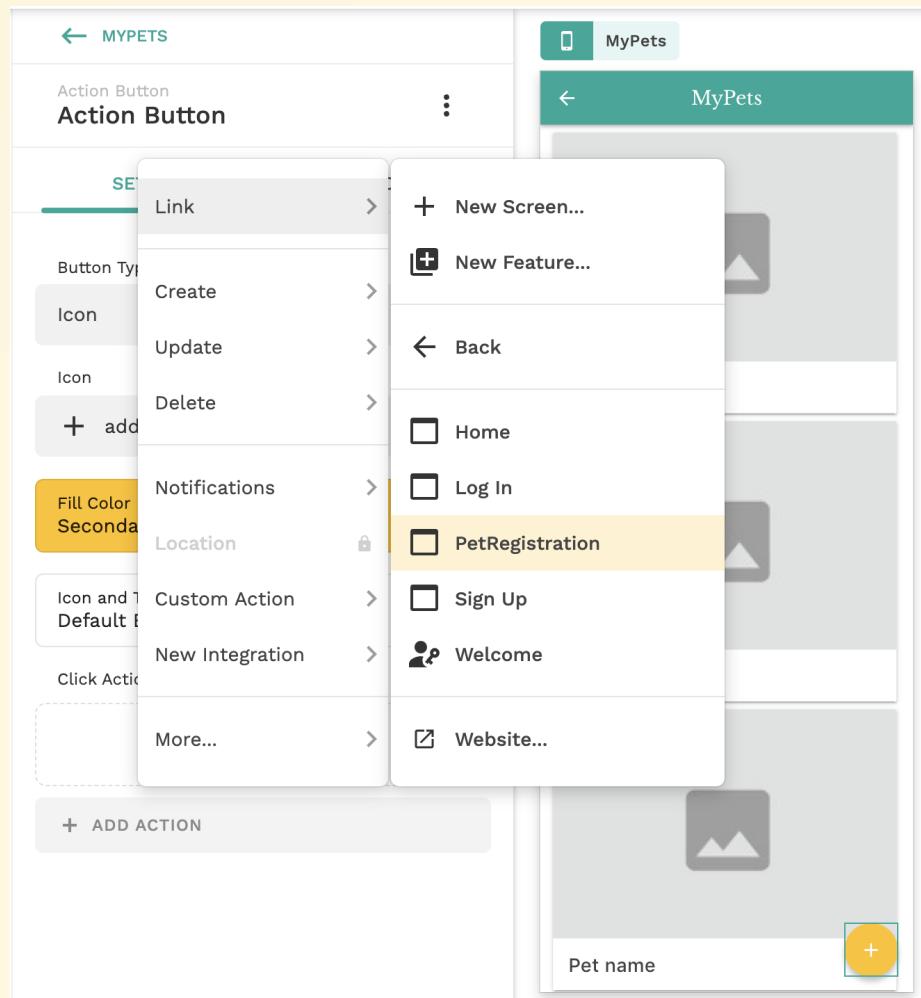
- Select Action Button from ADD COMPONENT



- Place it in the lower right corner of the screen.
- Change Icon and Text Color to Default Background(White)

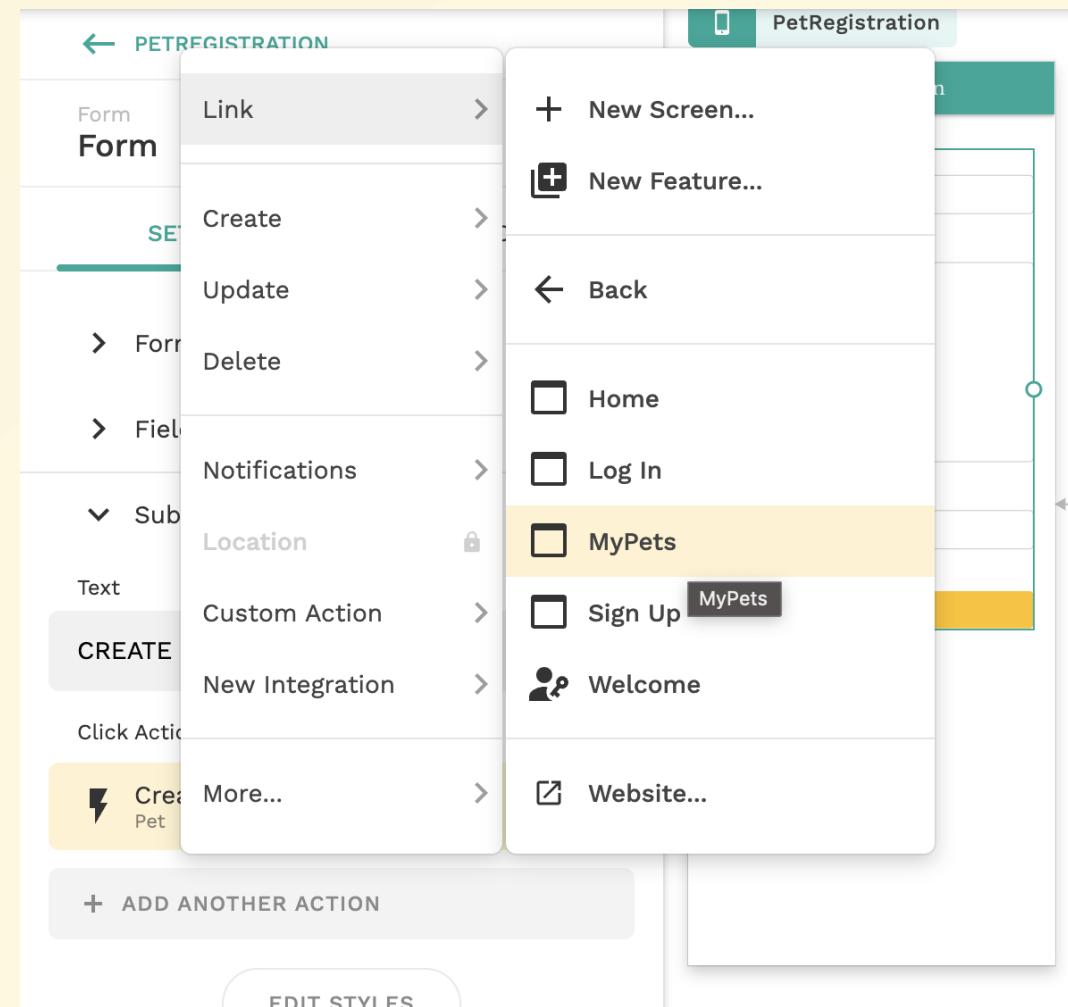


- Select ADD ACTION -> Link  
-> PetRegistration
- Transition can be left as None

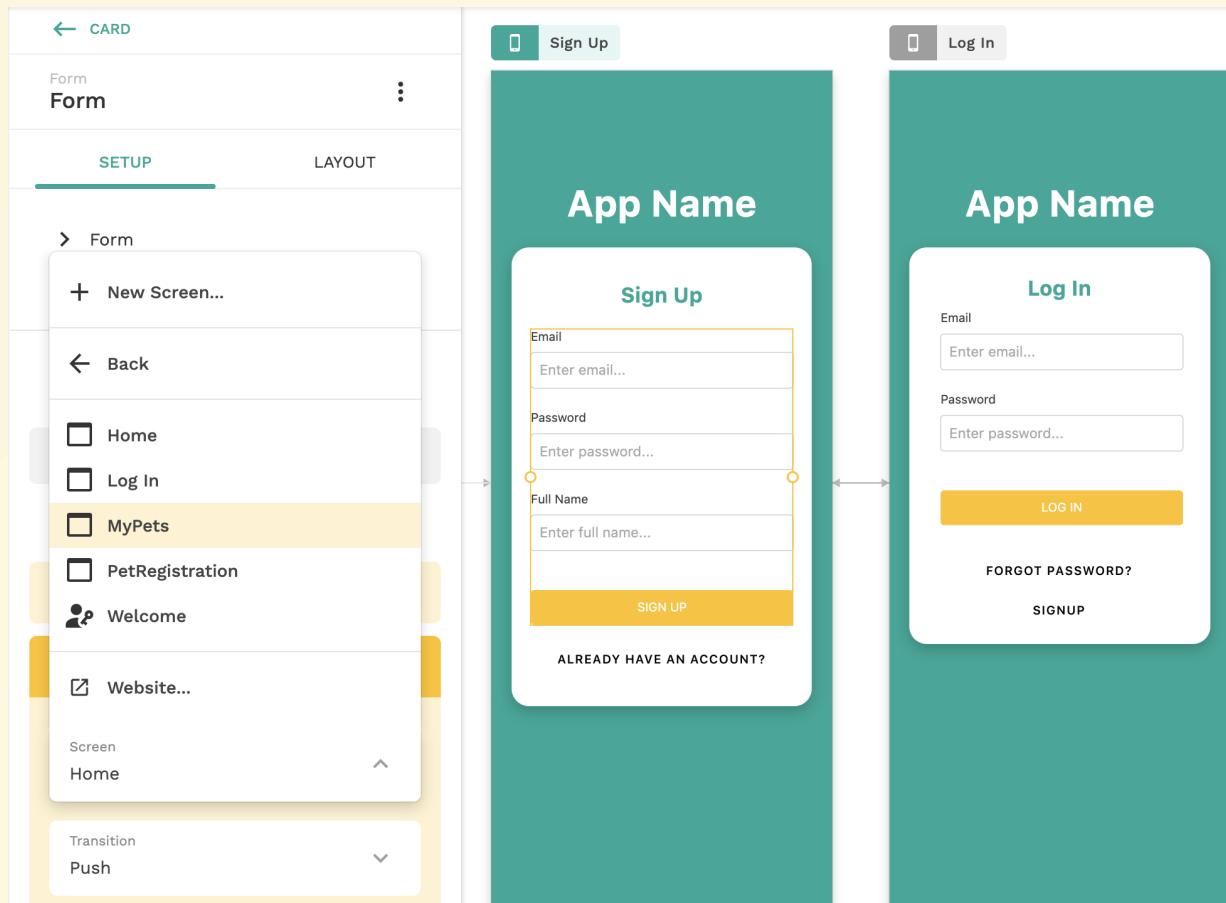


Let's also add a link from the Pet Registration screen to the Pet List screen

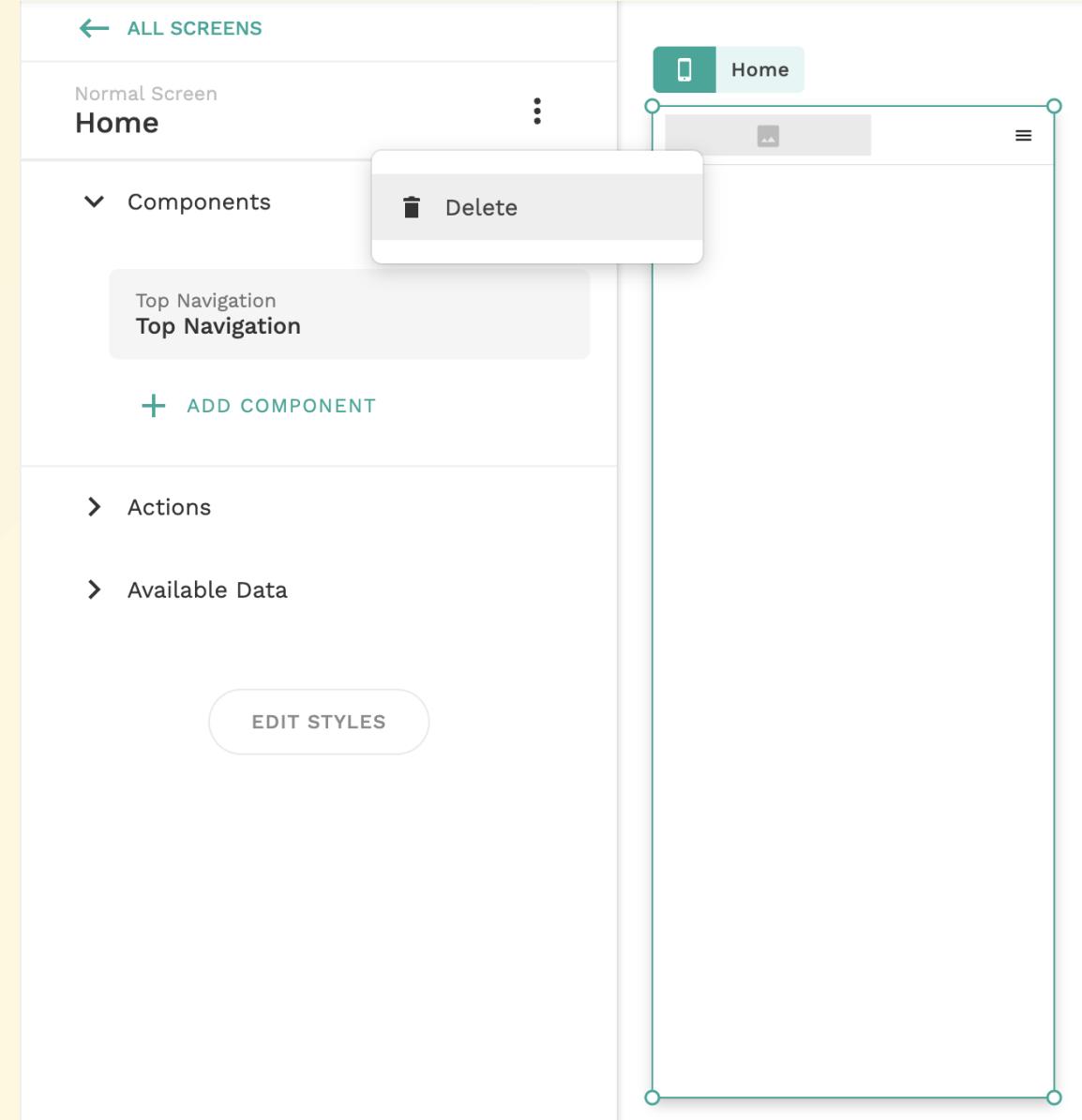
- Select Form > Submit Button on the pet registration screen.
- ADD ANOTHER ACTION -> Link -> MyPets



- Change the destination of the SIGNUP button on the SignUp screen and the LOGIN button on the Login screen from Home to MyPets.

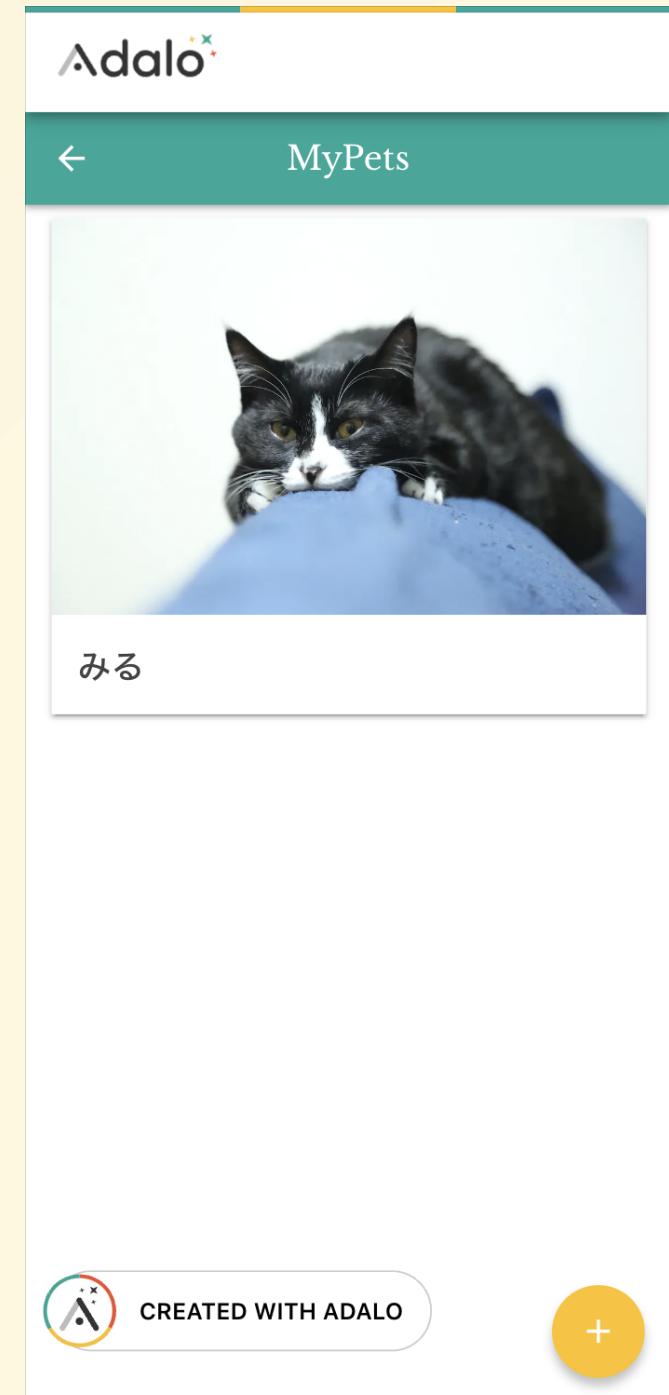


- The Home screen that was created by default is no longer needed, so let's delete it.



Let's check how the Pets List screen works.

- Change the Screen Navigation Type of the Pet List screen to Home Screen as you did when you previewed the Pet Registration screen!
- After logging in with the Preview function, you can view the Pets List screen.



- When you add a pet on the Pet Registration screen, it will also appear on the Pet List screen

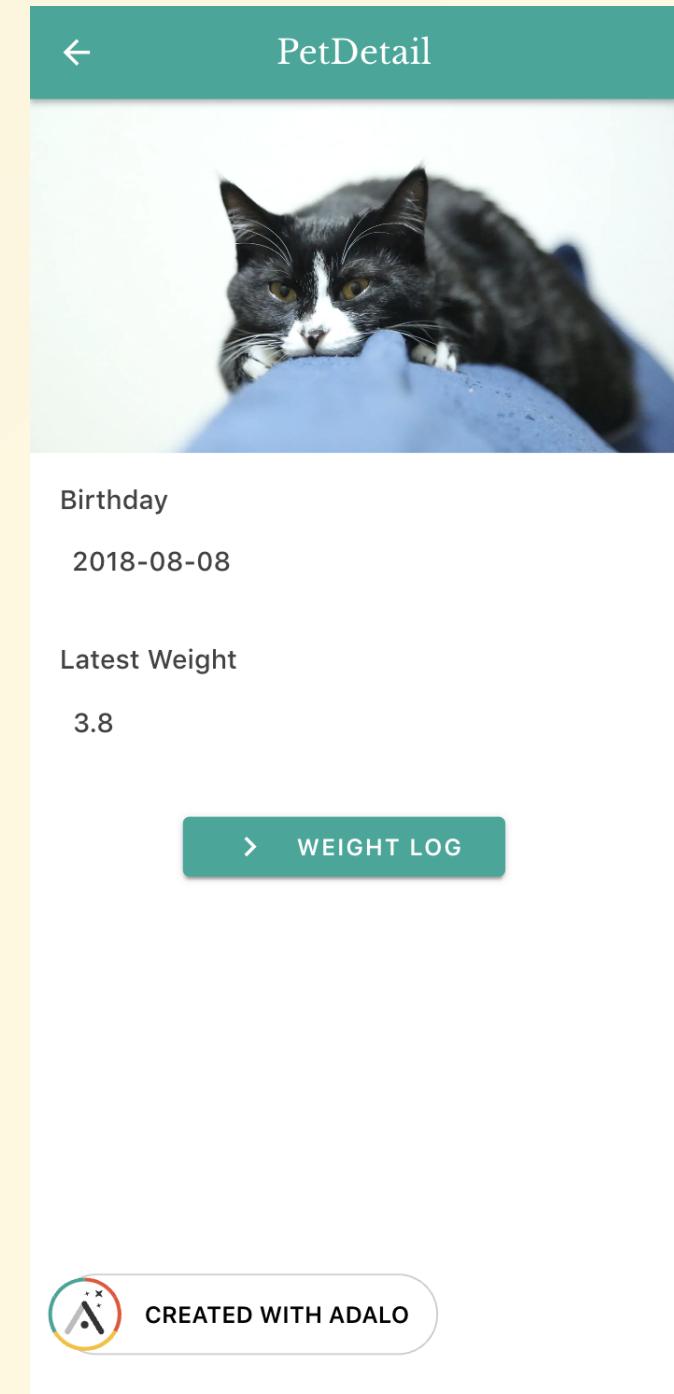
The Pets List screen is done.



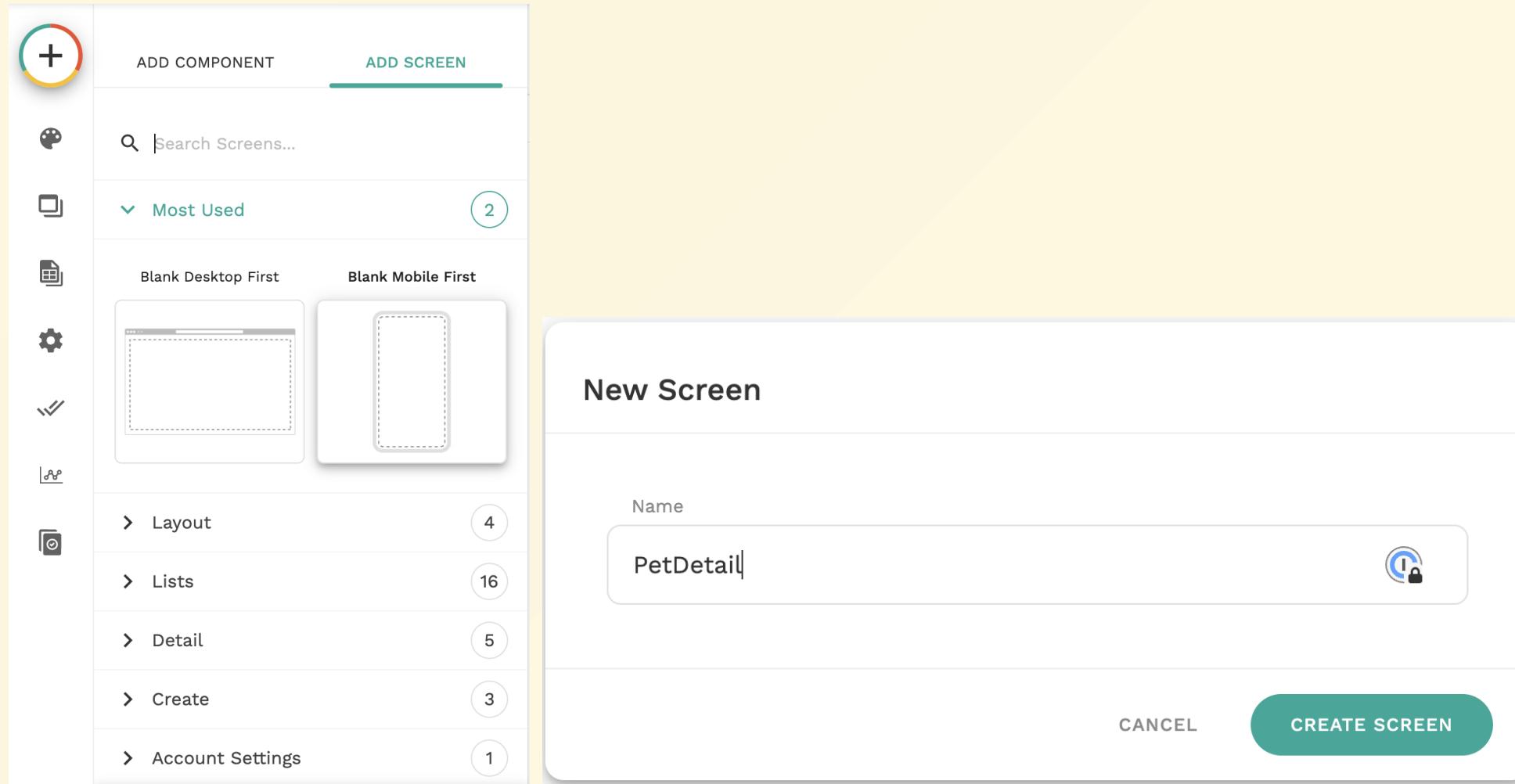
## ペット詳細画面

- Birthday is displayed
- Shows the latest weight.
- There is a link to the weight log screen

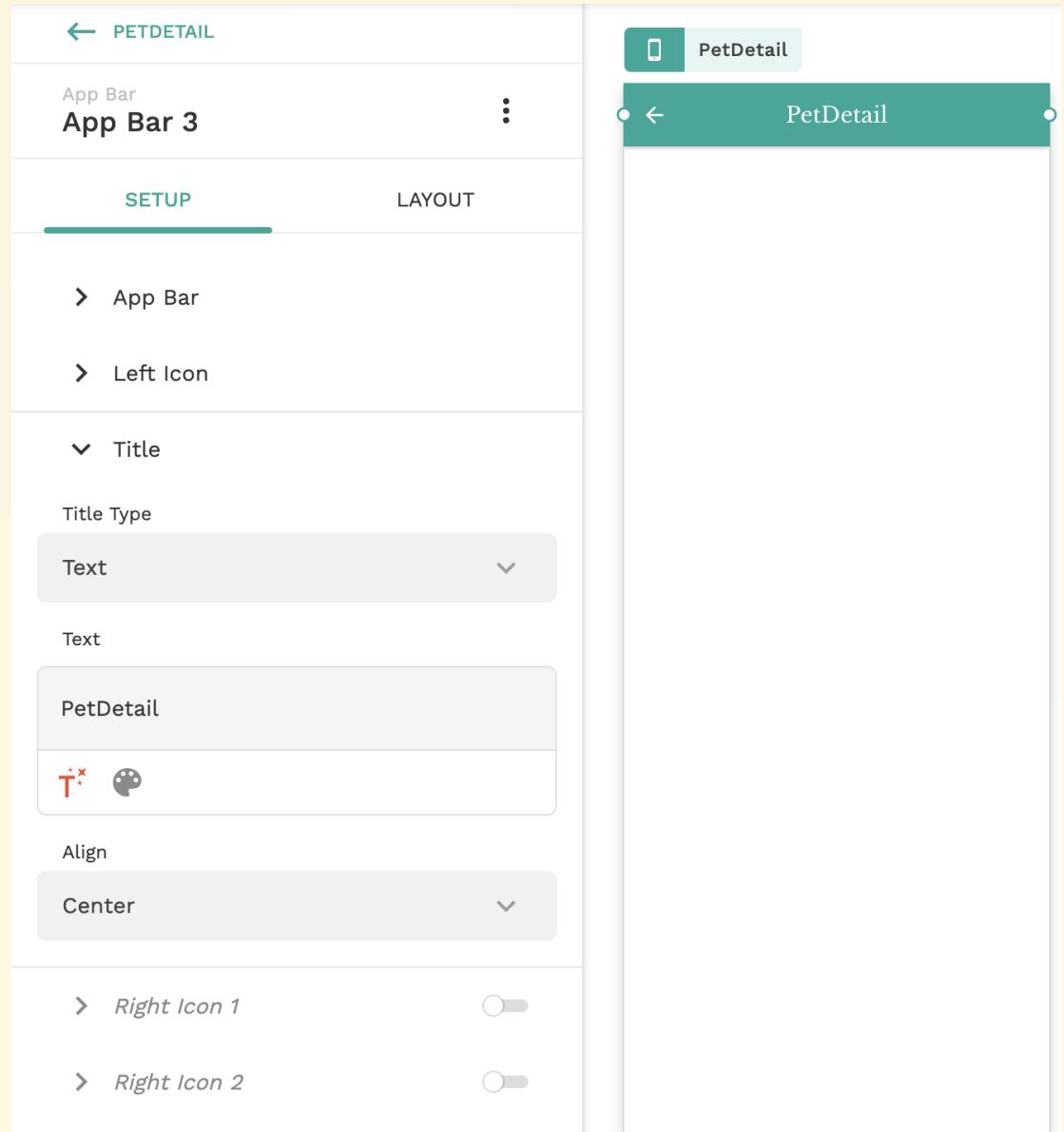
Next, let's create this screen



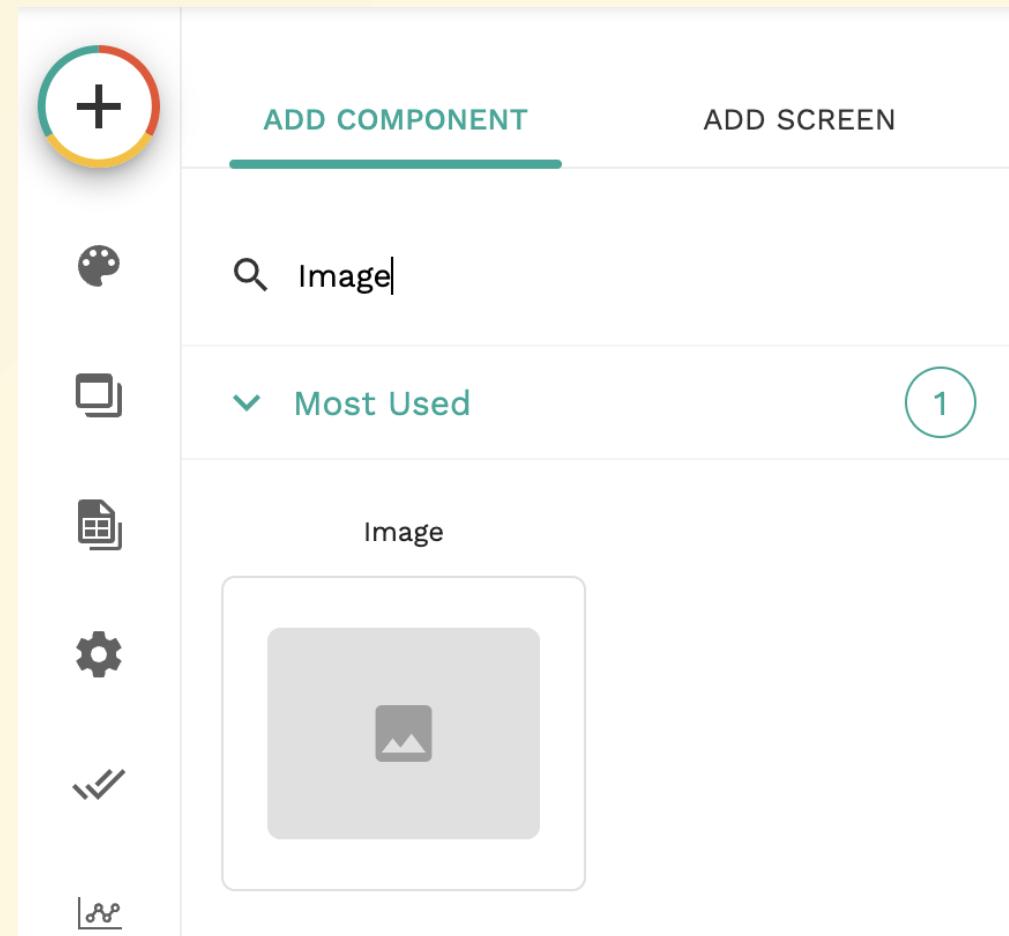
- Select Blank Mobile First from ADD SCREEN and enter Screen Name.



- Select App Bar from ADD COMPONENT and place it on the screen
- Change the value of Title > Text to the screen name (PetDetail)



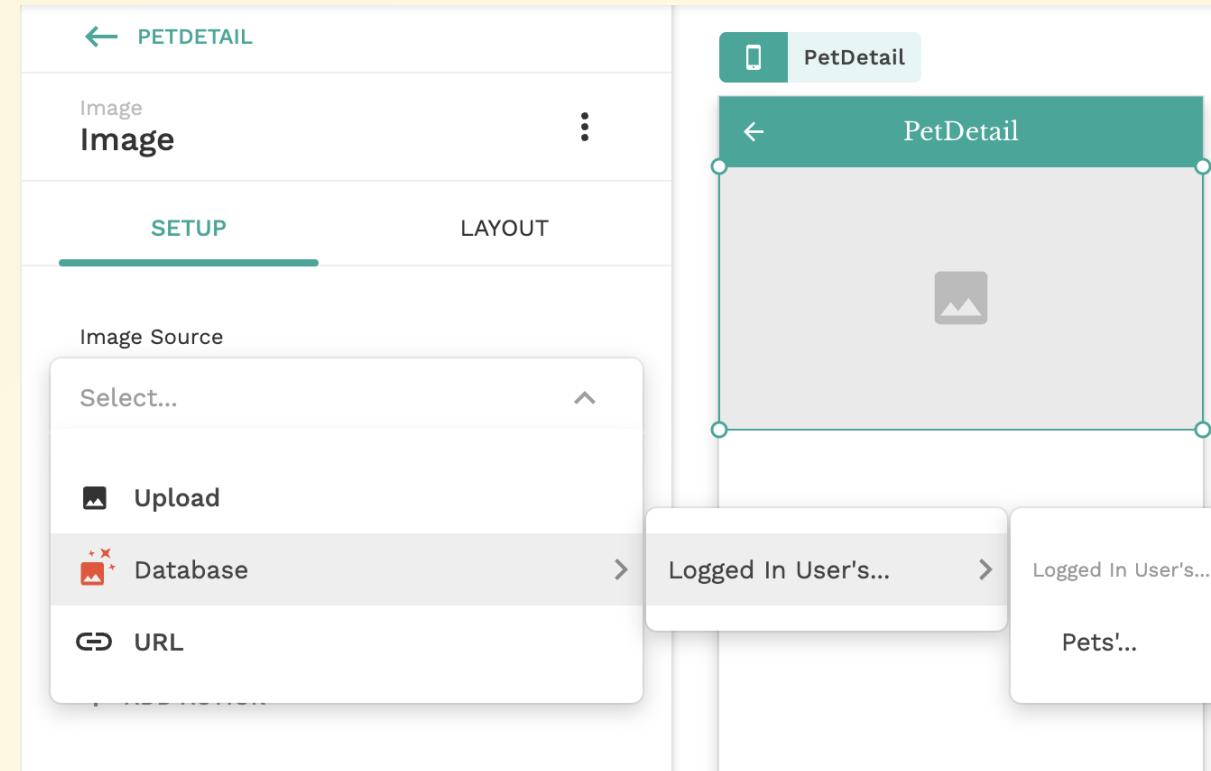
- Select Image from ADD COMPONENT and place it on the screen.



We want to set Image Source as image of a specific pet that we want to display, but it is ready to do.

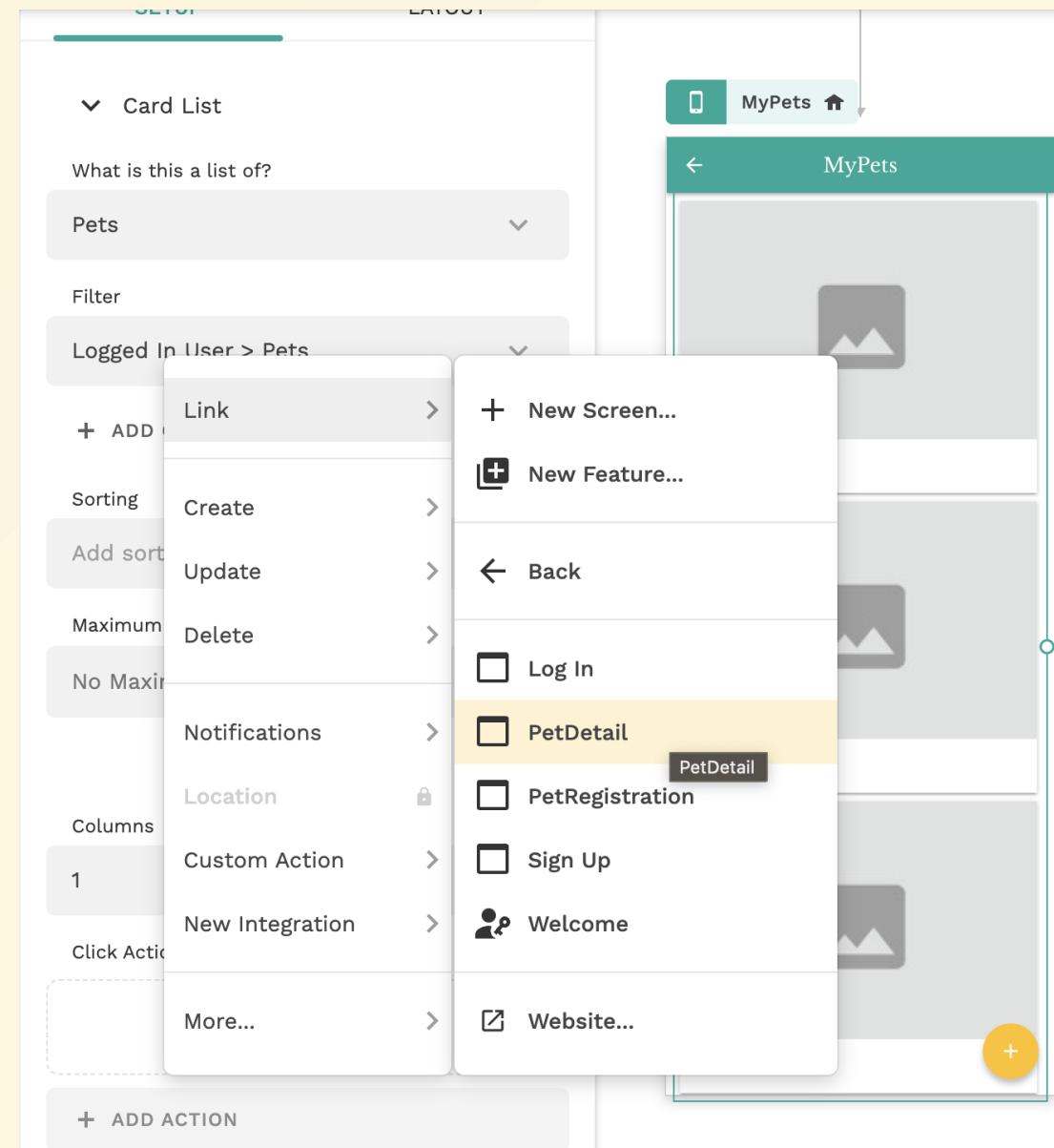
It seems like we can choose "Logged In User's > Pets > ...", but it is not an option at this time.

You could choose "Logged In User's > Pets > ...", but since the user has multiple pets, you can't specify a single pet.

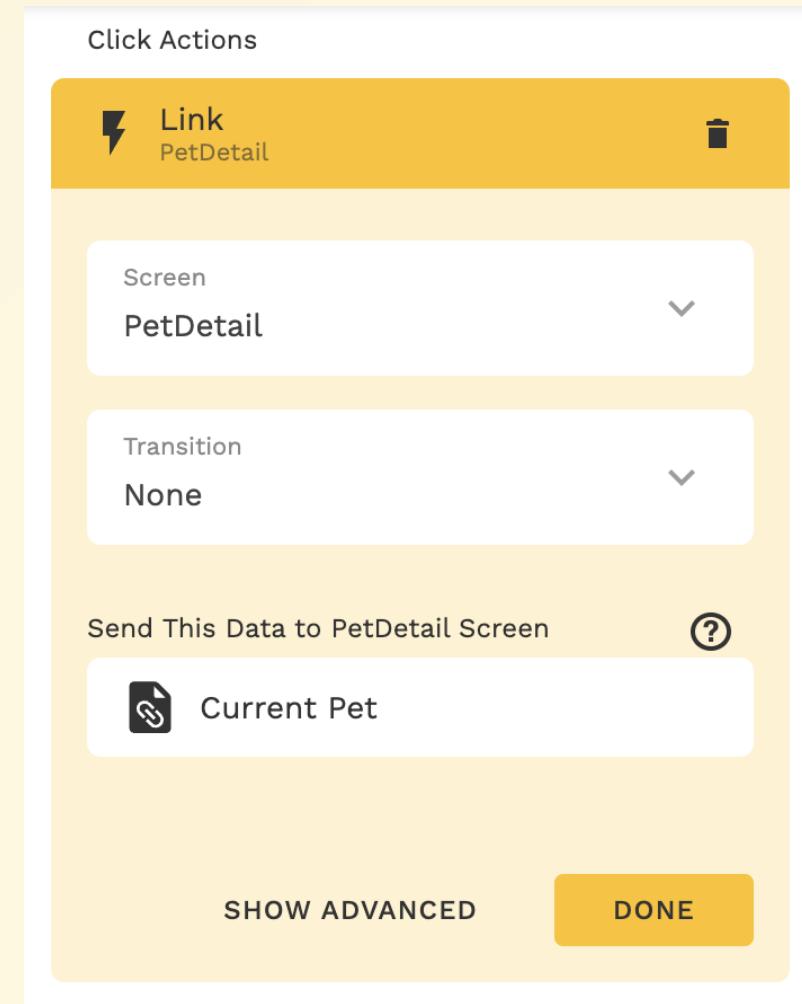


Setting up a link to this screen will add the specific pet you want to display to the choices.

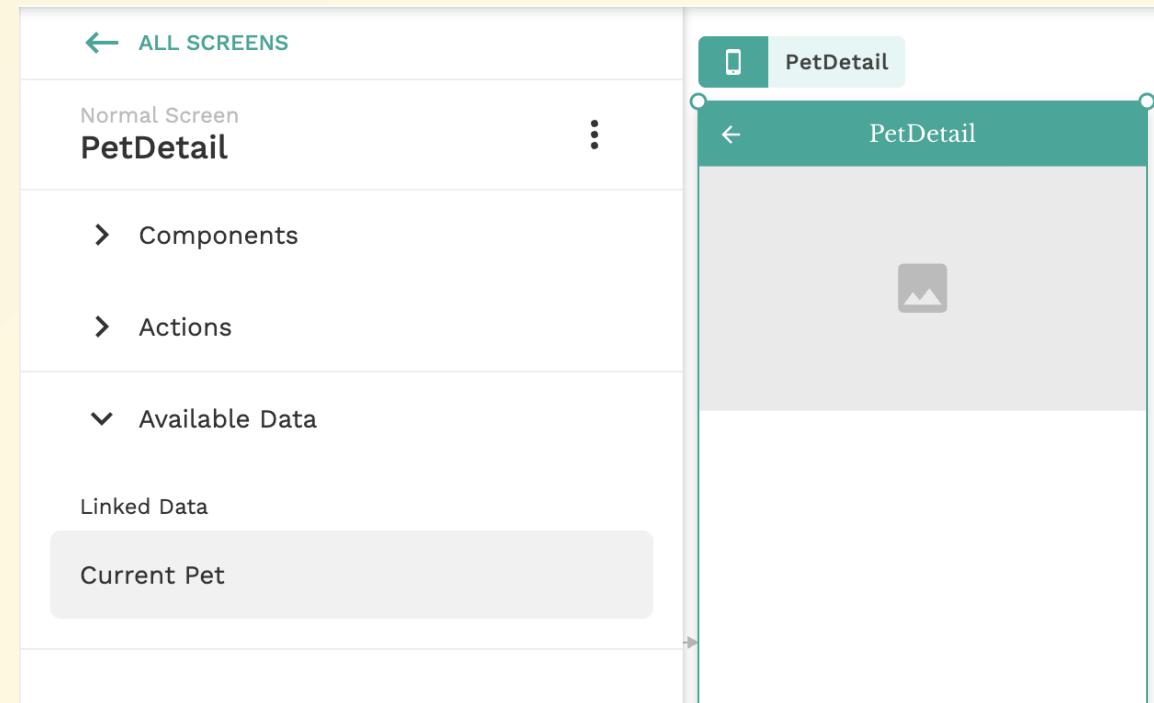
- Click ADD ACTION in CardList on the Pet Listing screen to add a Link to PetDetail.



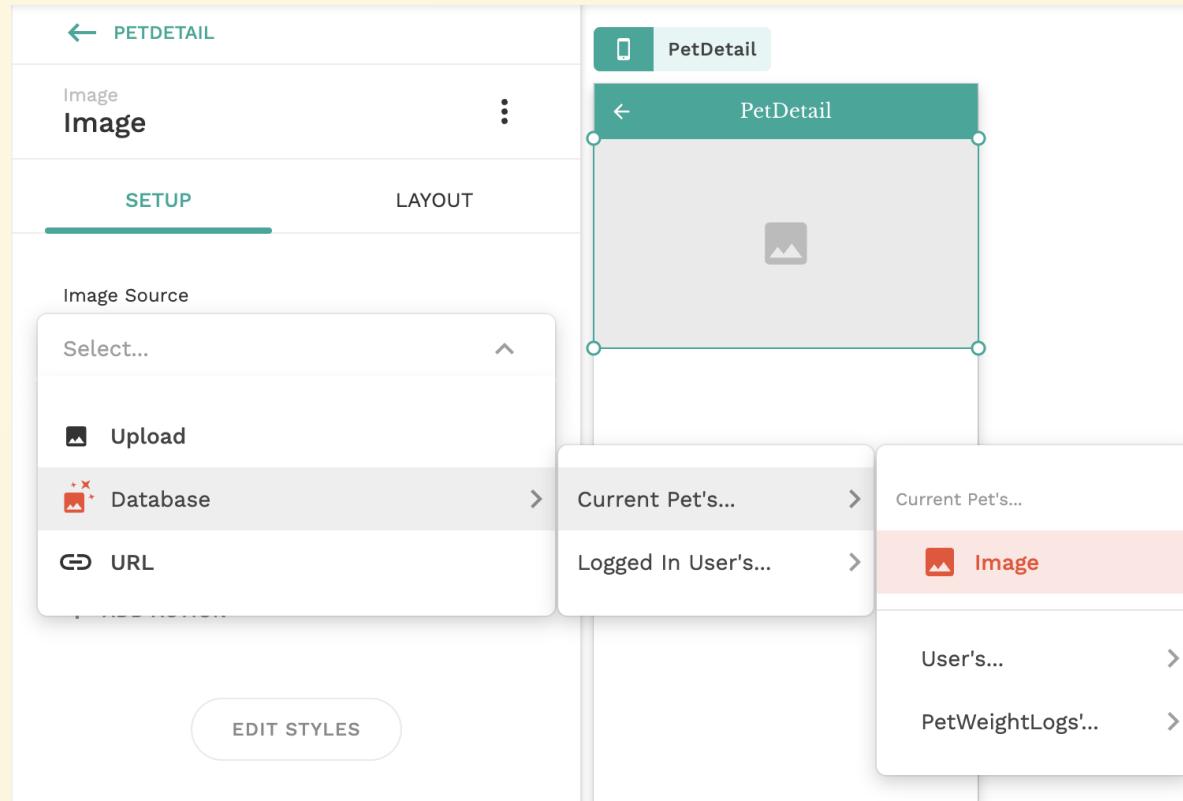
- Current Pet is automatically set to Send This Data to PetDetail Screen in the Link you added.



- Current Pet is set as Linked Data in Available Data of Pette Detail Screen because Current Pet is set in Send This Data to PetDetail Screen of Link from Pette List Screen.
  - This allows you to handle the pet (Current Pet) selected on the Pet List screen in the Pet Detail screen.



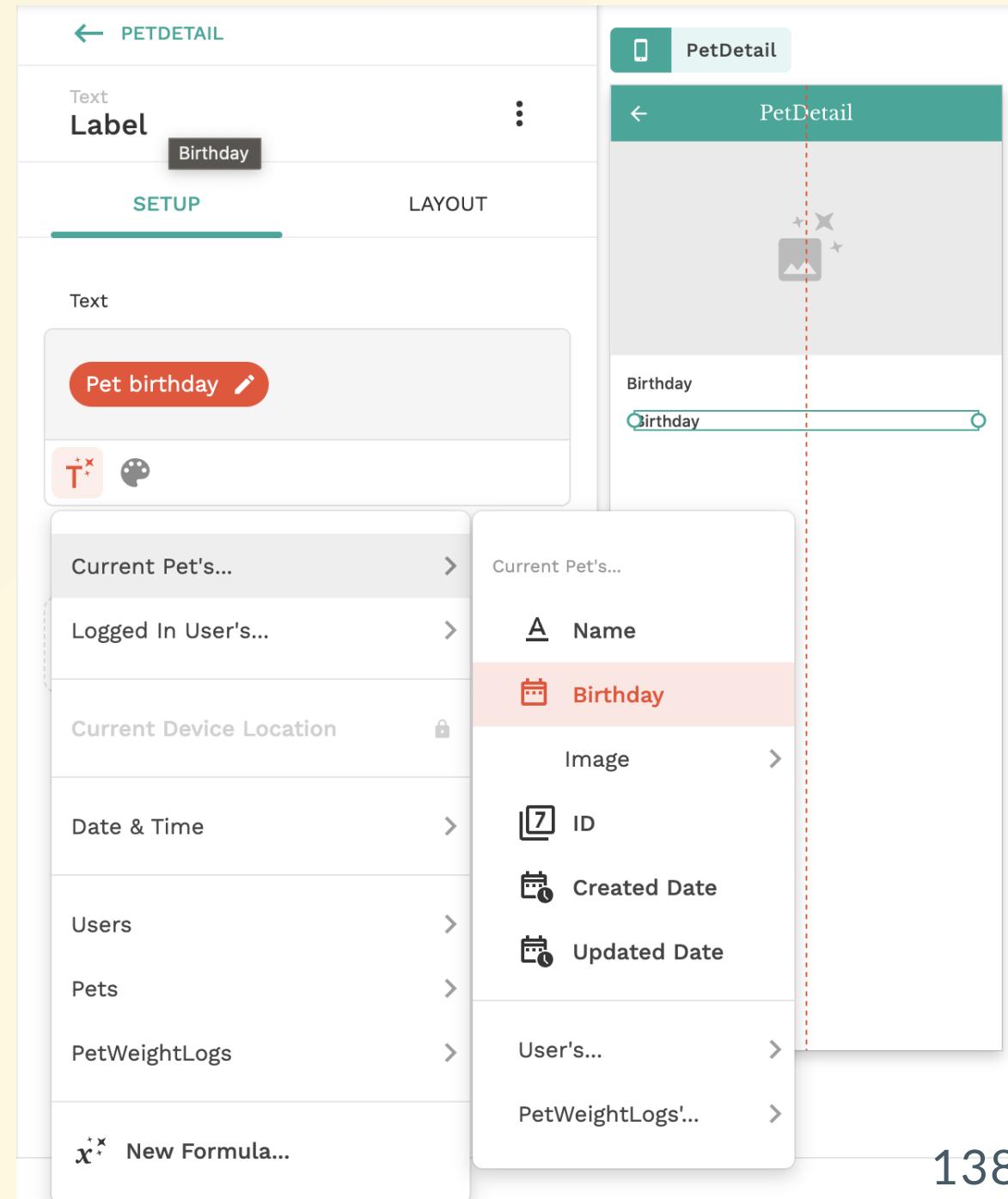
- Set Database > Current Pet > Image to ImageSource in the Image component.



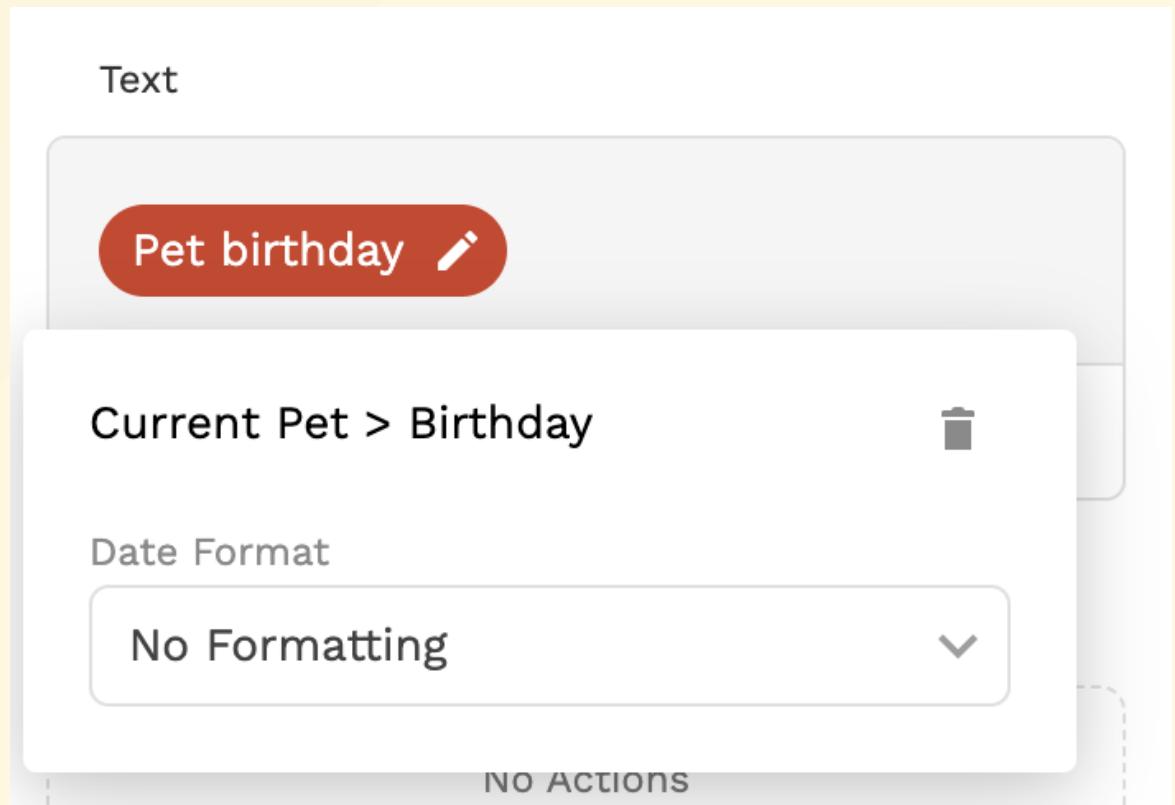
Now the image of the specific pet will be displayed.

We will also add other items.

- Add Text from ADD COMPONENT to display the label Birthday and its value
  - To display the value, select Current Pet's > Birthday from ADD Magic Text



- Change the Data Format to No Formatting from the edit icon on the right side of the pet birthday in Text

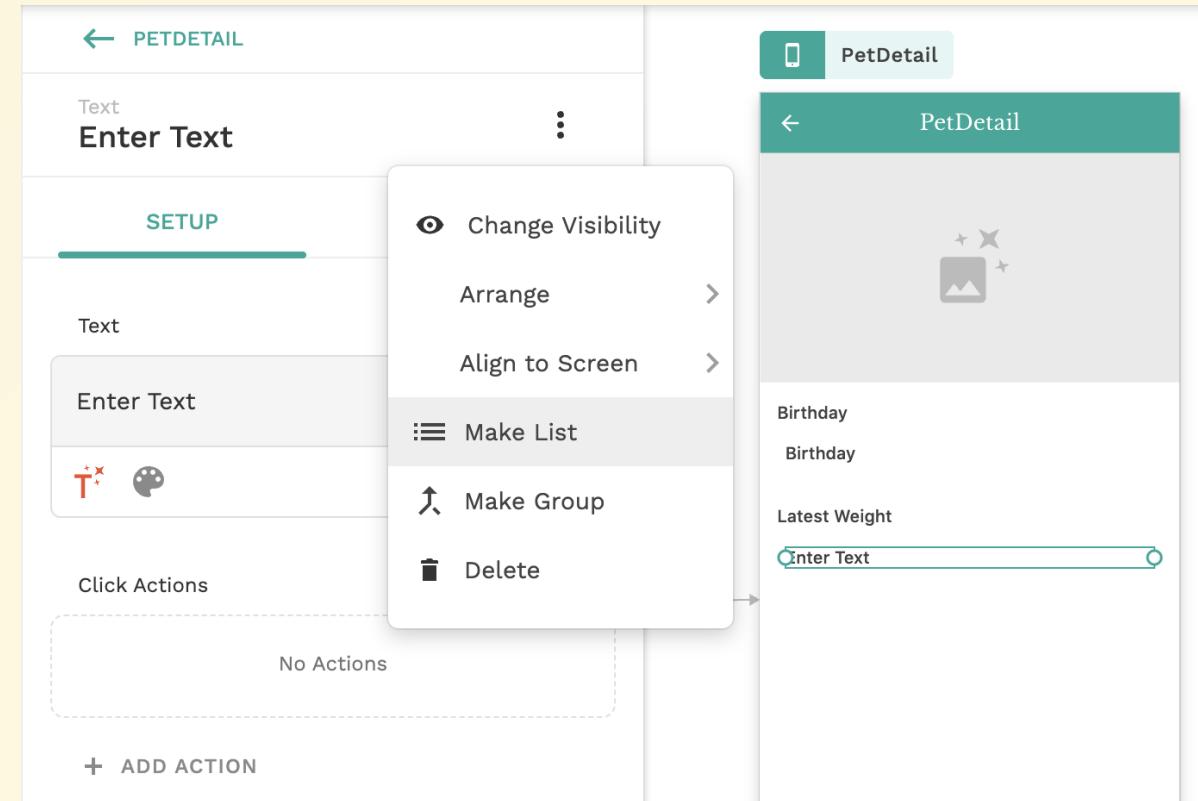


- Add Text from ADD COMPONENT and display the label Latest Weight.

The screenshot shows the Figma interface for the 'PetDetail' component. At the top, there's a header bar with a back arrow and the text 'PETDETAIL'. Below the header, the component is titled 'Text' with the label 'Latest Weight'. There are two tabs at the top: 'SETUP' (which is selected) and 'LAYOUT'. In the 'SETUP' tab, there's a 'Text' section containing the text 'Latest Weight' with a red 'T' icon and a color palette icon below it. Below this is a 'Click Actions' section with a dashed box labeled 'No Actions' and a '+ ADD ACTION' button. At the bottom right of the setup tab is an 'EDIT STYLES' button. To the right of the main component area, there's a preview window showing a mobile phone icon and the text 'PetDetail' above a blurred image. Further down, there are sections for 'Birthday' (with a date input field), another 'Birthday' section, and a 'Latest Weight' section with a green outline.

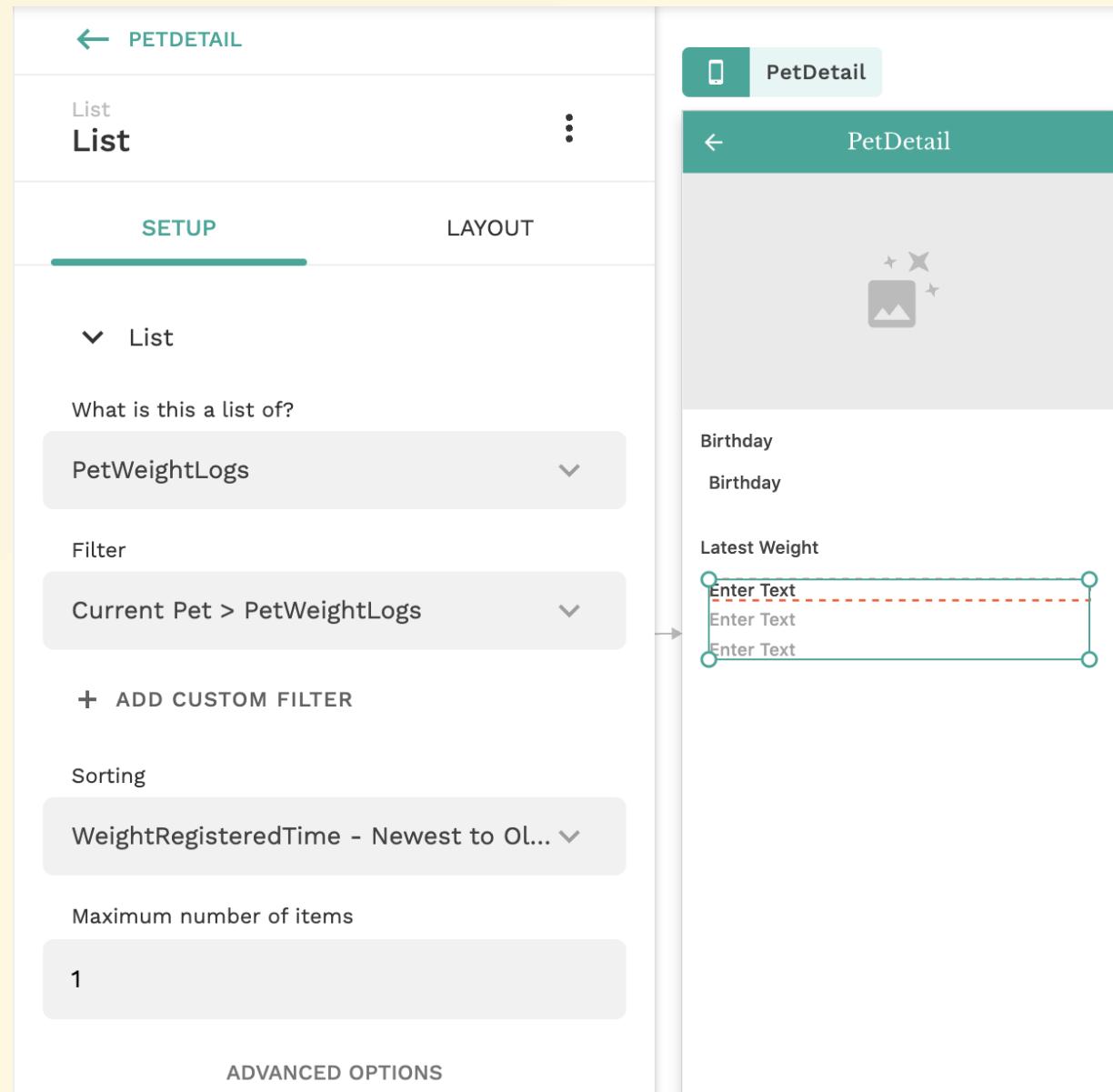
To display the value of Latest Weight needs some work.

- Add Text from ADD COMPONENT and make it a list with Make List.

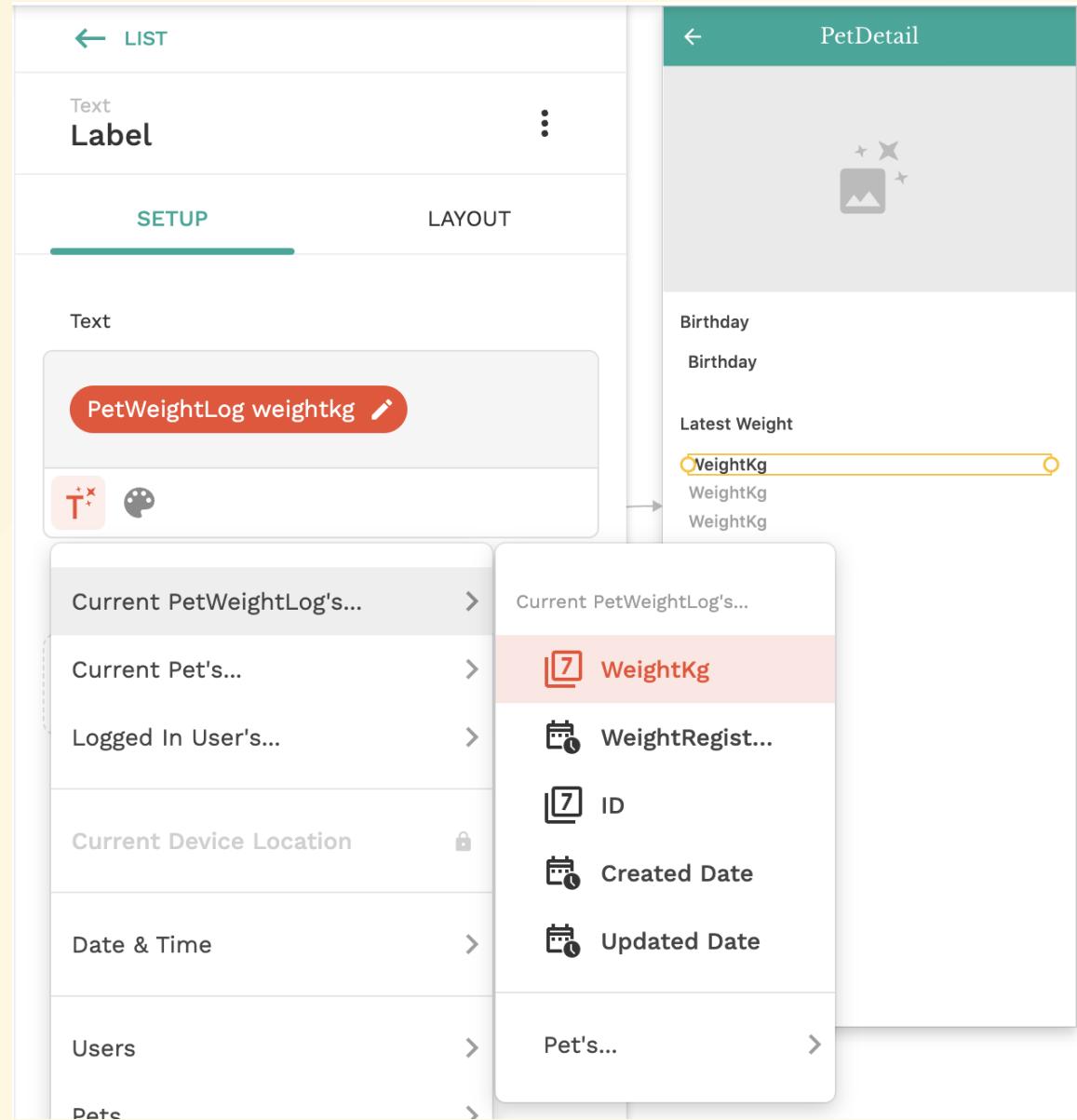


- Select PetWeightLogs in What is this a list of?
- Select Current Pet > PetWeightLogs in Filtering
- In Sorting, select WeightRegisteredTime - Newest to Oldest
- Set Maximum number of items to 1

This will limit the number of items to only the most recent one.

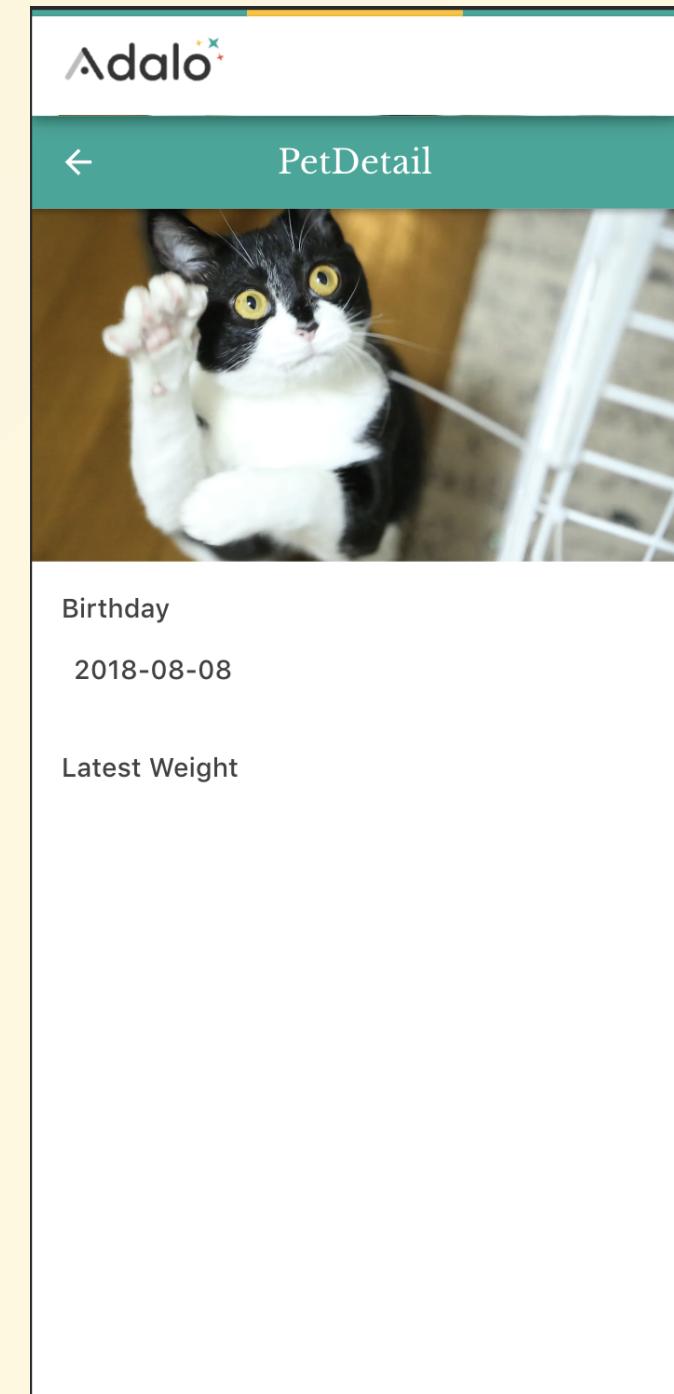


- Set the value of the Text component in the List to Current PetWeightLog's > WeightKg.



- Let's see how it works in the preview window

Since PetWeightLog's data has not been registered yet, Latest Weight is not displayed, but this is OK for now.

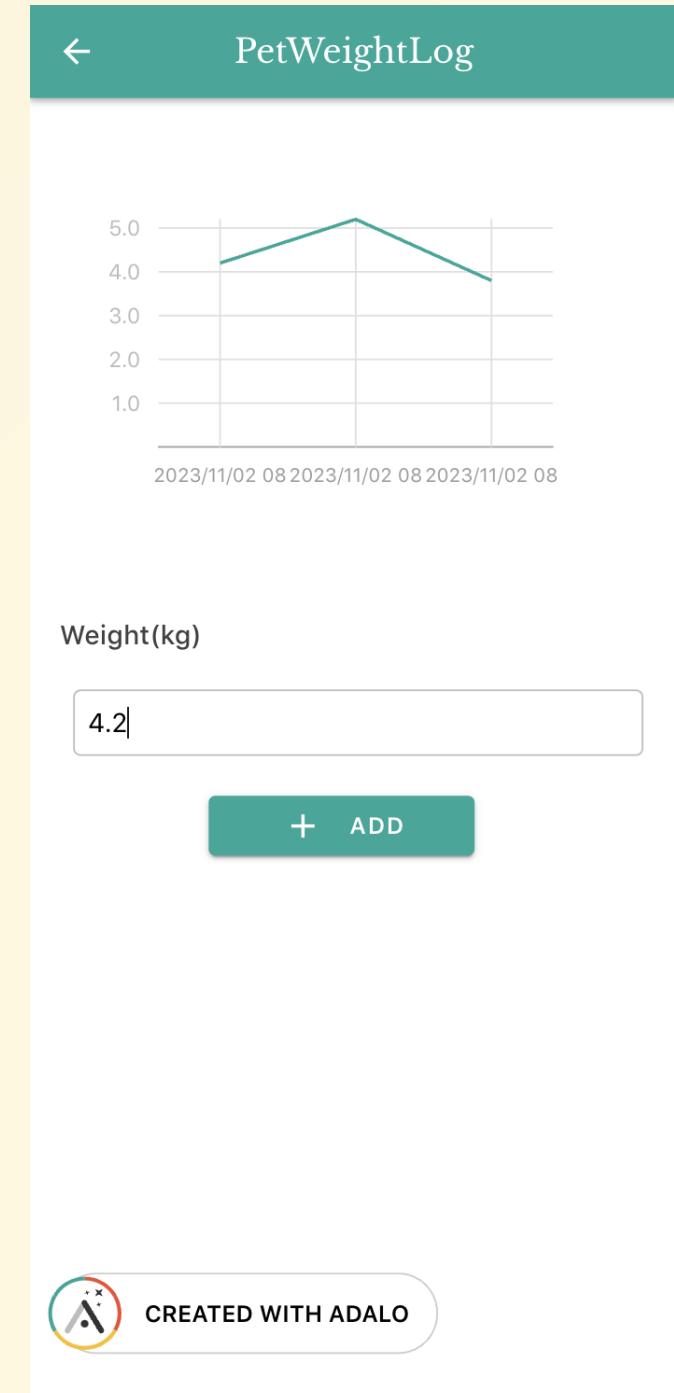




## Weight Log Screen

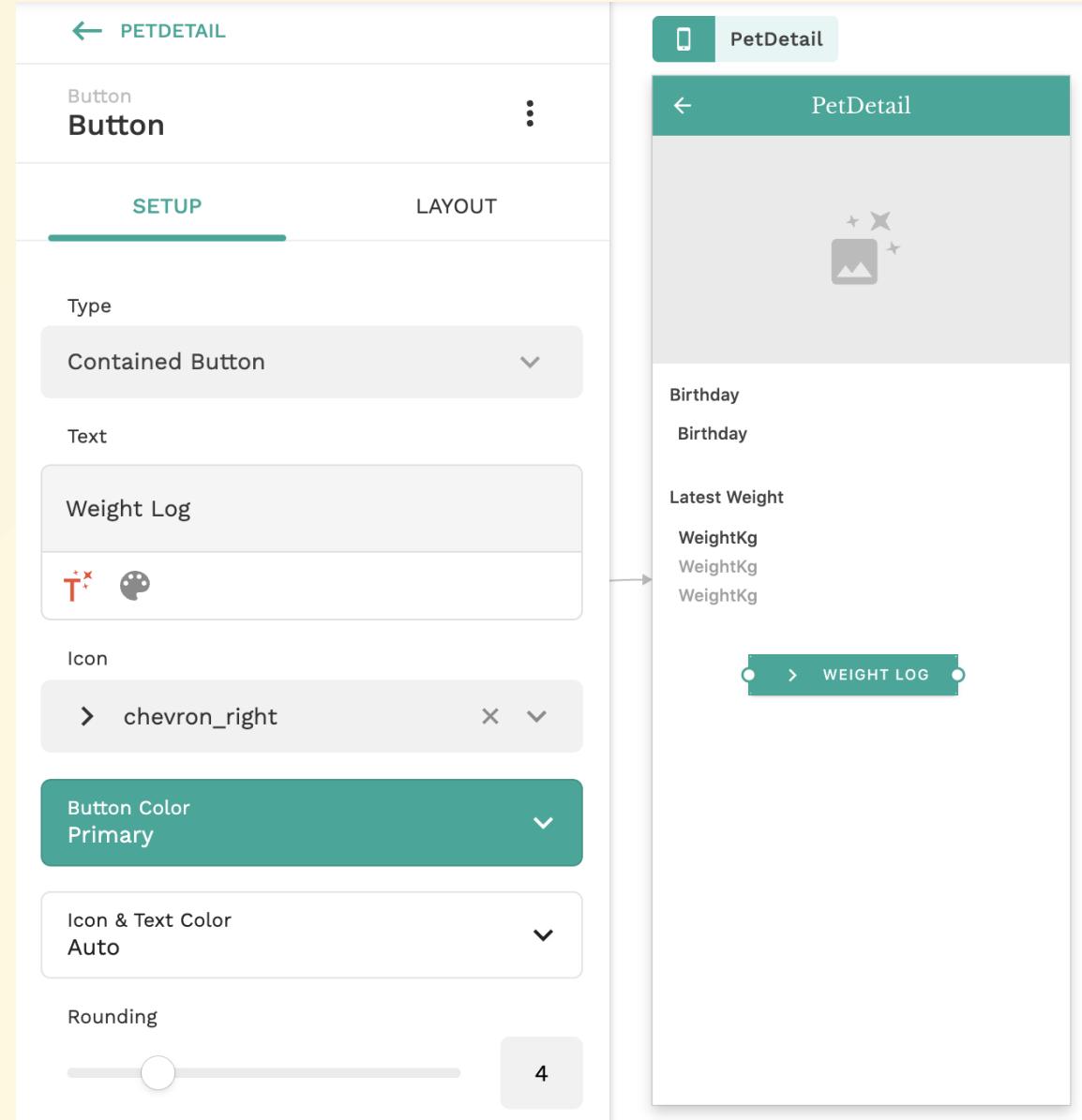
- Displays a graph showing weight transitions
- Current weight can be entered
- Weight can be added with the press of a button

Finally, let's create this screen.

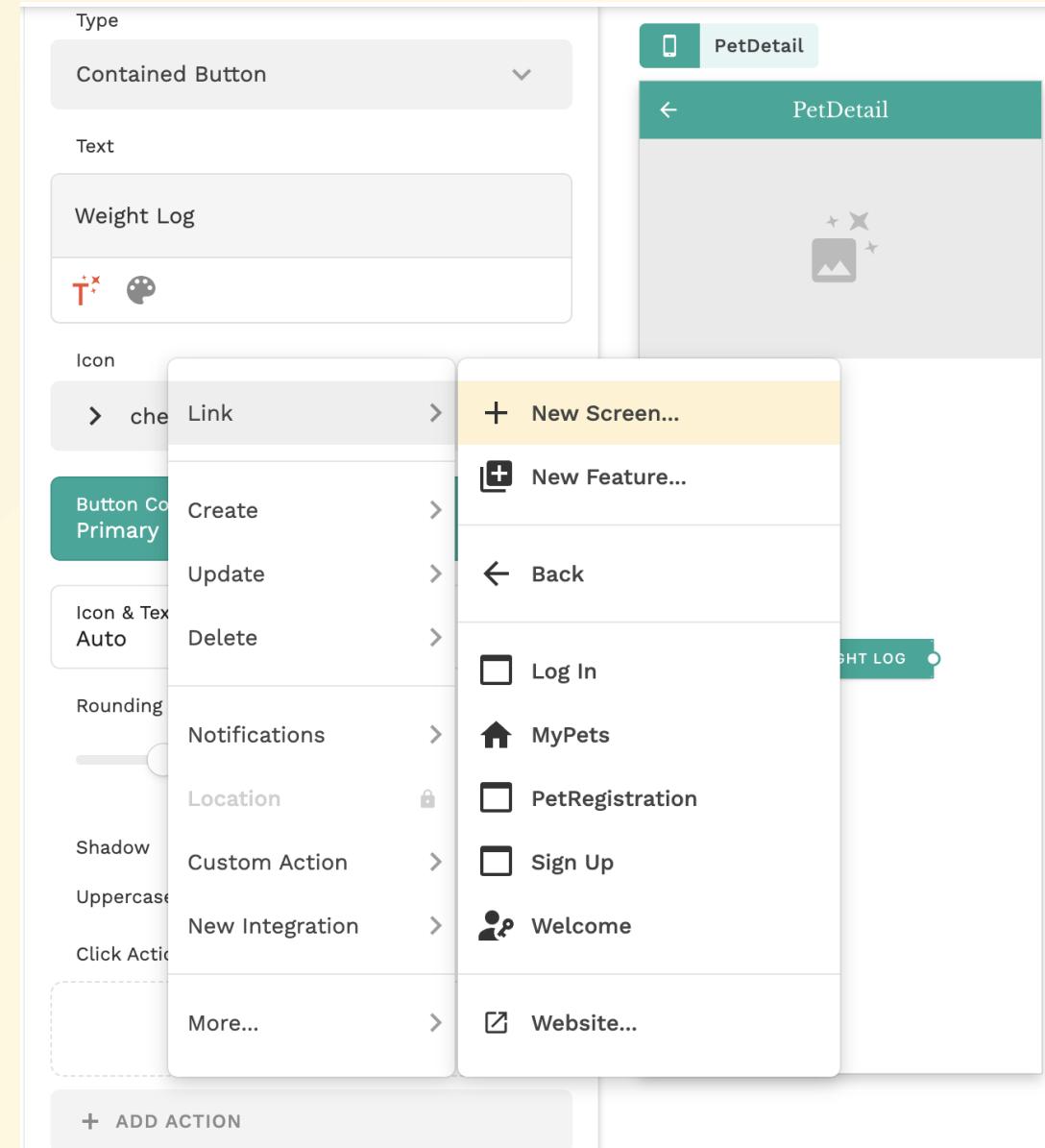


Add a button on the pet details screen that will lead to the weight recording screen

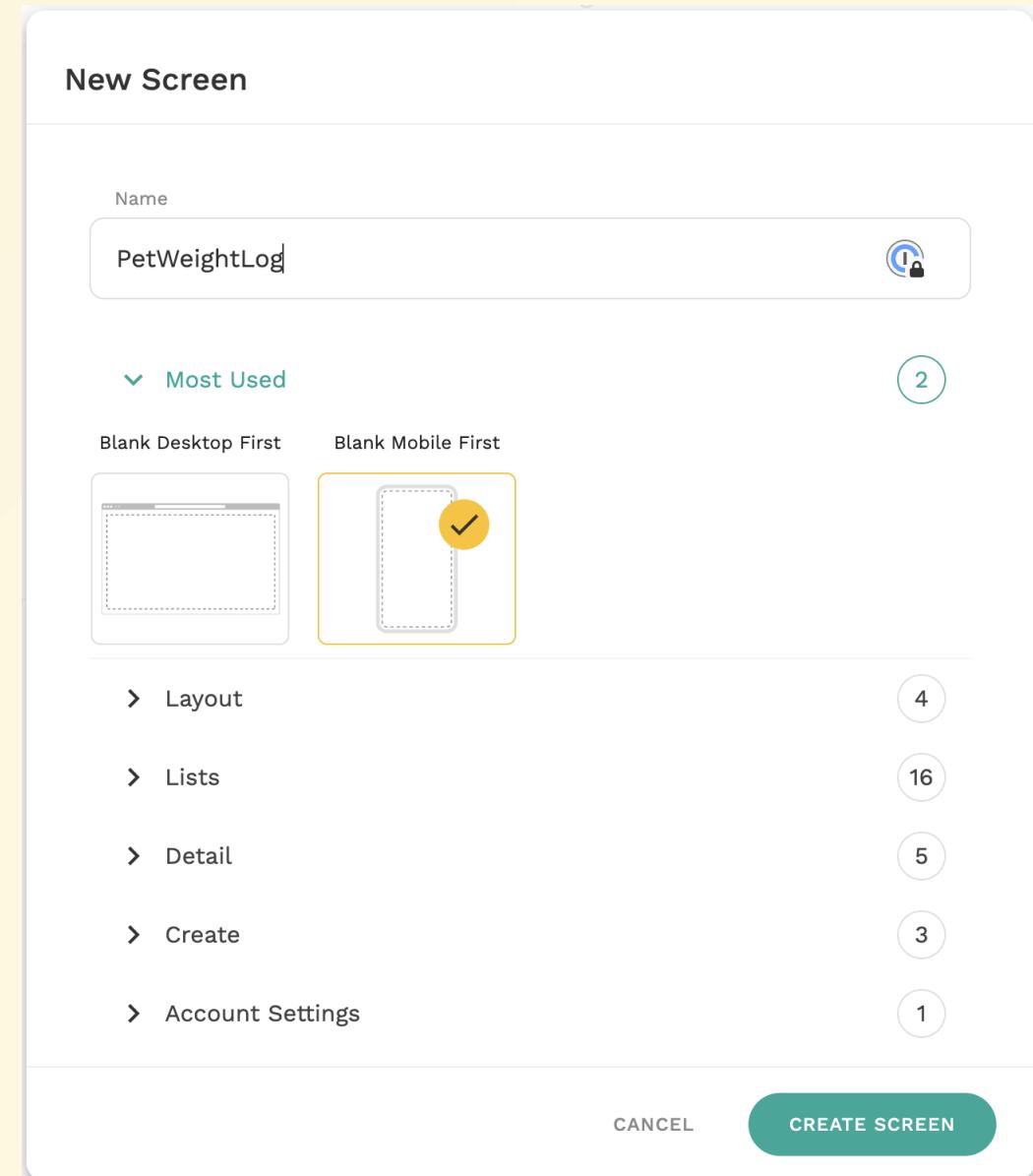
- Select the Button from ADD COMPONENT and place it on the screen.
- Change the Text to Weight Log.
- Change Icon to chevron\_right



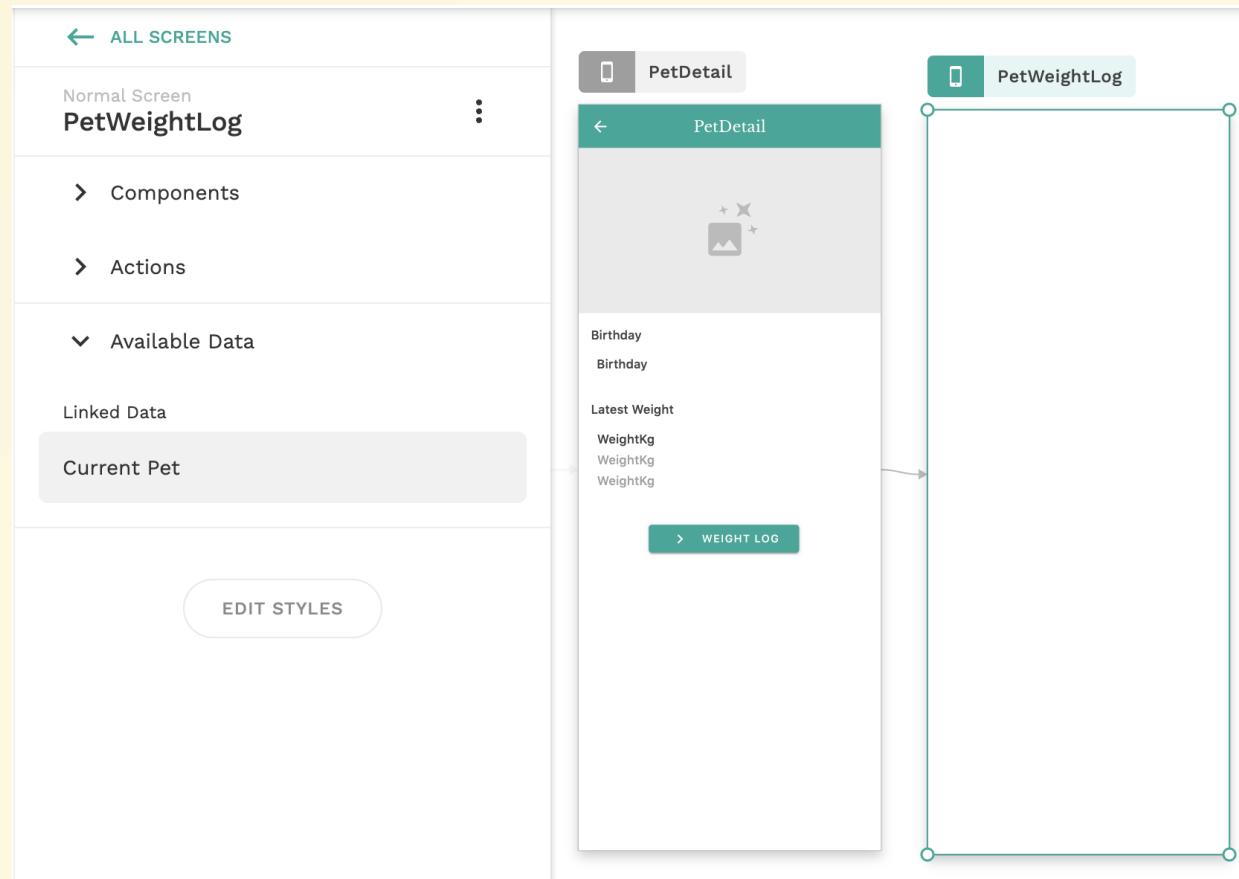
- Select ADD ACTION > Link > New Screen



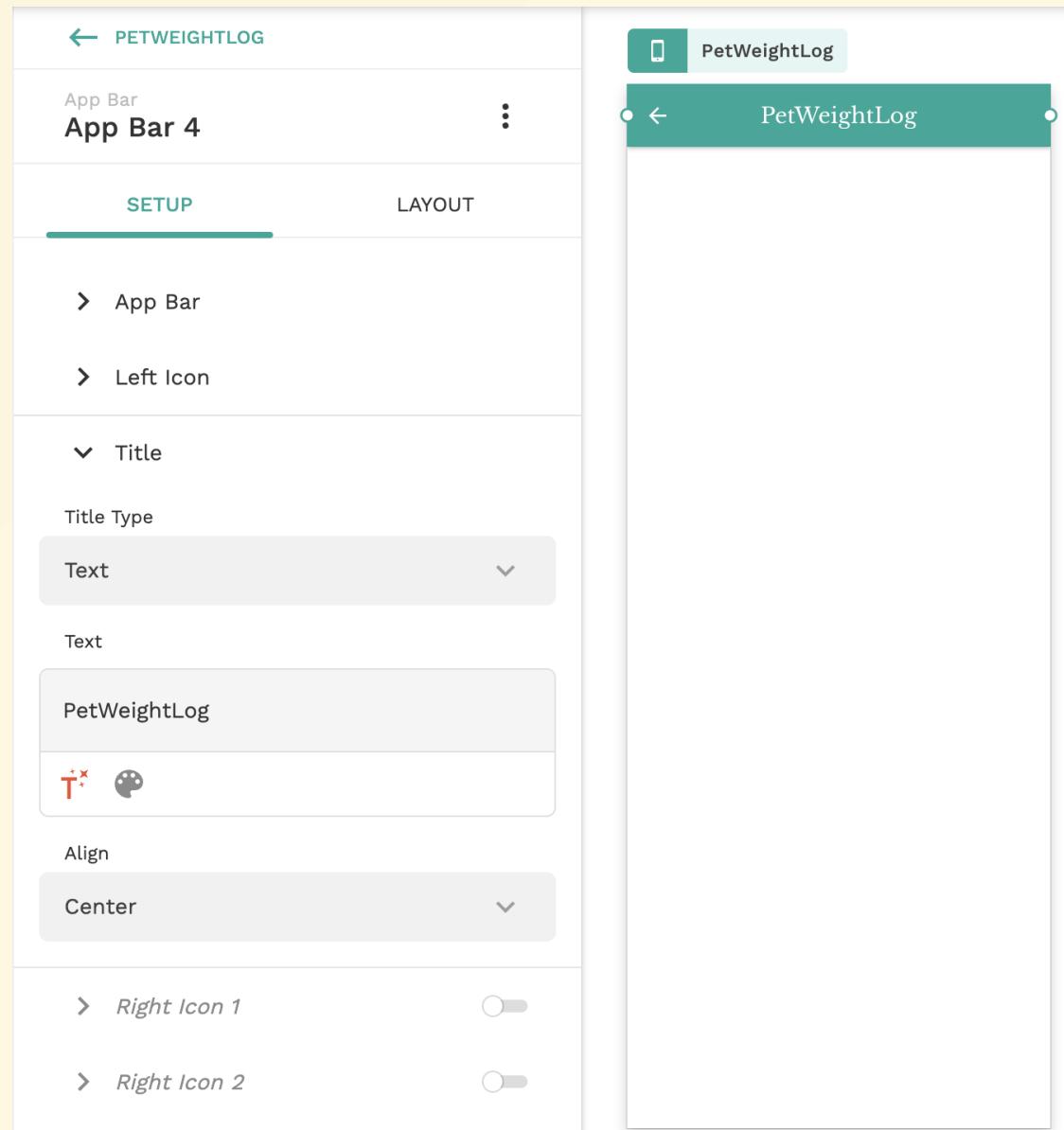
- Enter Screen Name and select Blank Mobile First to create the screen.



The created screen can handle the Current Pet data passed from the Pet Details screen.

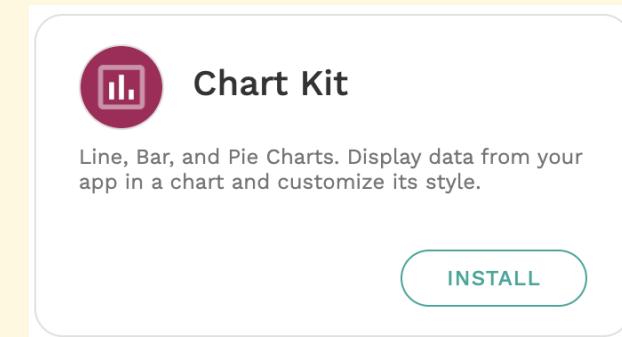
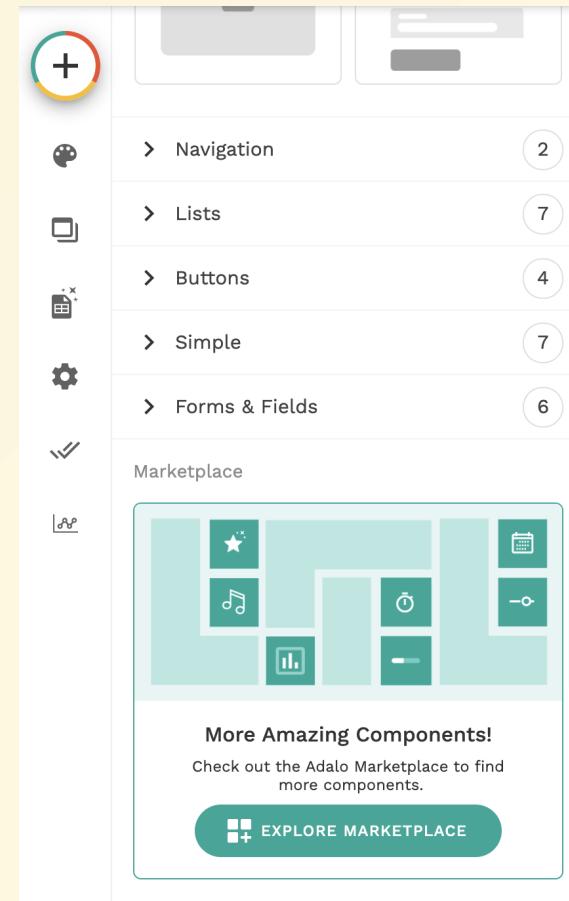


- Select App Bar from ADD COMPONENT and place it on the screen
- Change the value of Title > Text to the screen name (PetWeightLog)

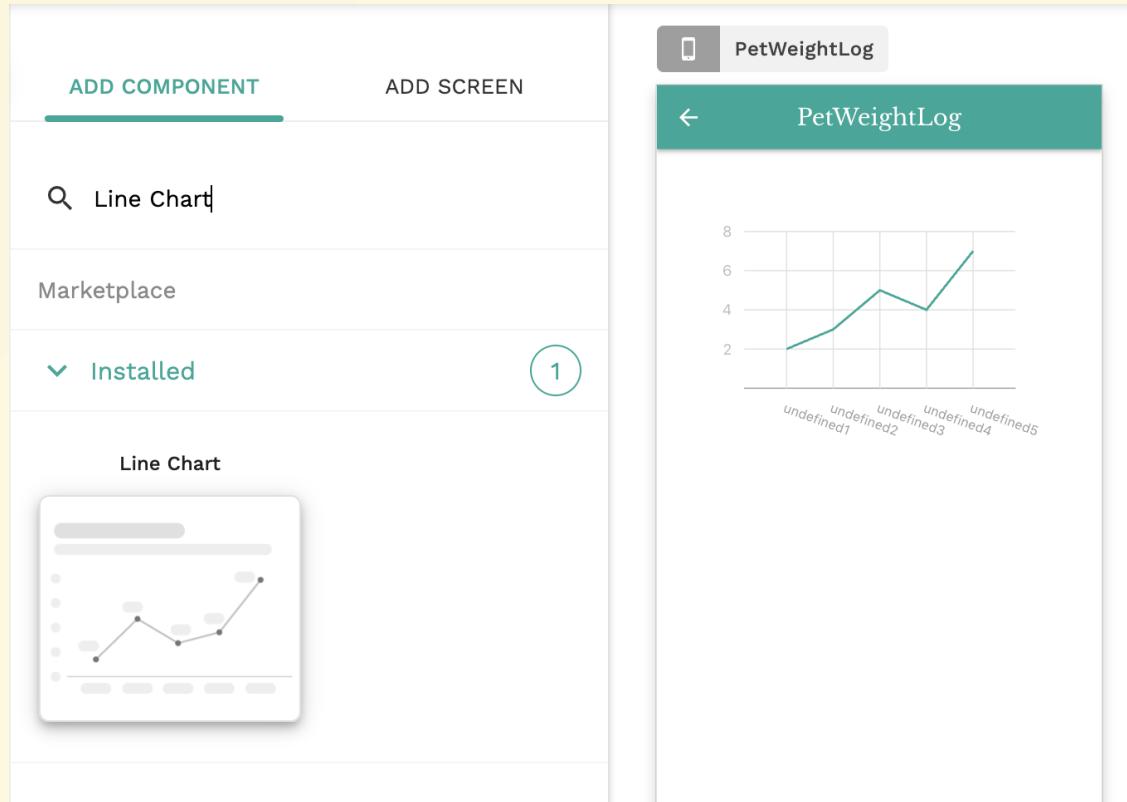


Next, we will display the weight of the pets registered in the past as a graph.

- Select EXPLORE MARKETPLACE from ADD COMPONENT
- INSTALL Chart Kit



- Add Line Chart to screen



## Set up a Line Chart.

- Select PetWeightLogs in What is this a chart of?
- Select Current Pet > PetWeightLogs in Filter
- In Custom Filter, set WeightRegisteredTime Is after 30 days ago and specify the display period
- Select WeightRegisteredTime - Oldest to Newest in Sorting

▼ Line Chart

What is this a chart of?

PetWeightLogs ▾

Filter

Current Pet > PetWeightLogs ▾

Custom Filter ✖

WeightRegisteredTime ▾

Is after ▾

30 days ago × ▾

+ AND

+ ADD CUSTOM FILTER

Sorting

WeightRegisteredTime - Oldest to Ne... ▾

Maximum number of items

No Maximum

ADVANCED OPTIONS

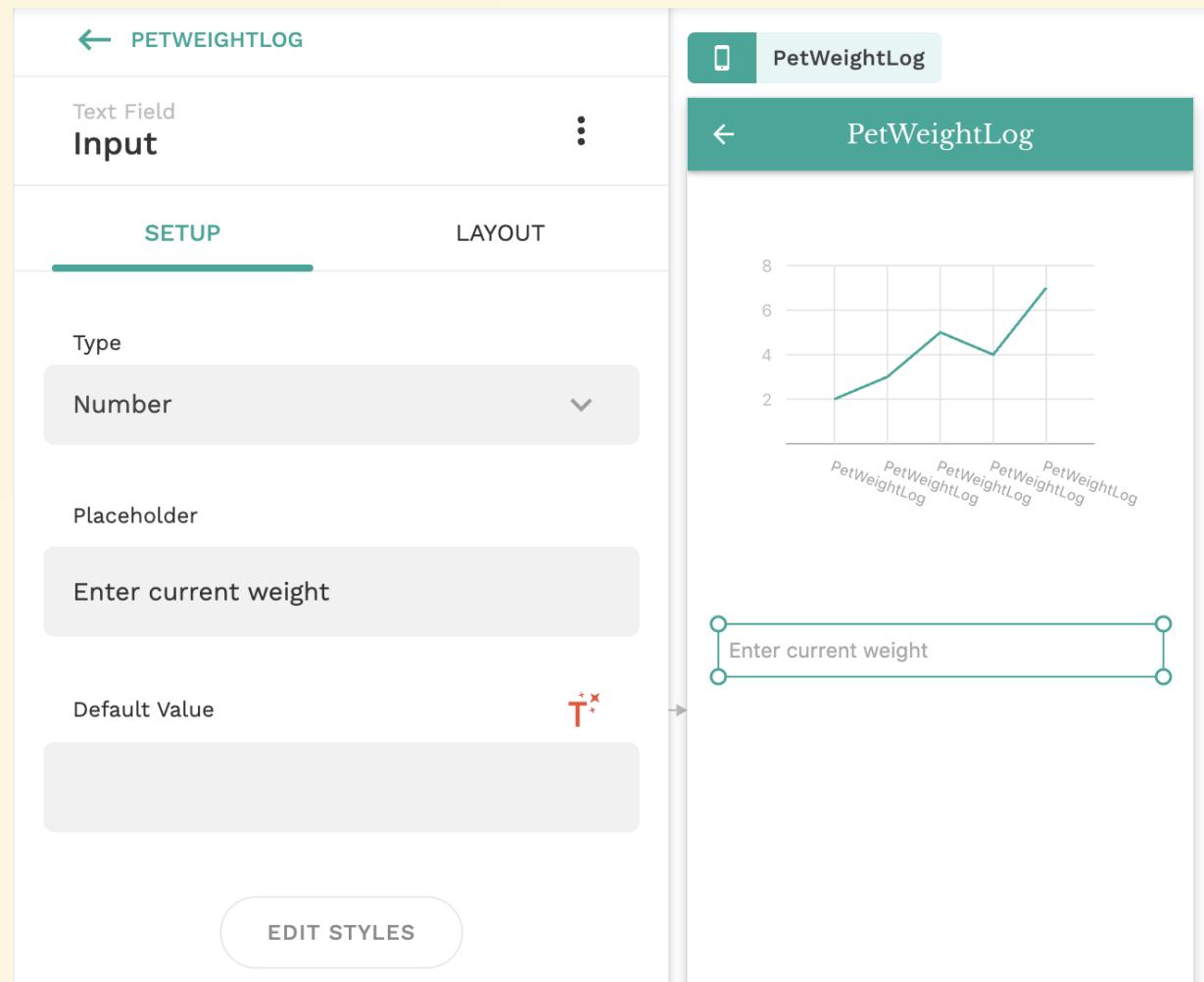
- Set PetWeightLog > WeightRegisteredTime in X Axis Value
  - Set Date / Time to Date Format
- Set PetWeightLog > WeightKg to Y Axis Value

The screenshot shows a configuration interface for a graph. On the left, there is a panel titled "X Axis Value" containing a red button labeled "PetWeightLog weightregisteredtime" with a edit icon, and a placeholder "T". Below it is a "Y Axis Value" section with a red button labeled "PetWeightLog weightkg" with an edit icon, and a placeholder "x". Underneath these is a "Point Action" section with a dashed box labeled "No Actions" and a "+ ADD ACTION" button. On the right, there is a larger panel titled "Current PetWeightLog > WeightRegisteredTime" with a delete icon. This panel includes a "Date Format" section with a dropdown menu set to "Date / Time".

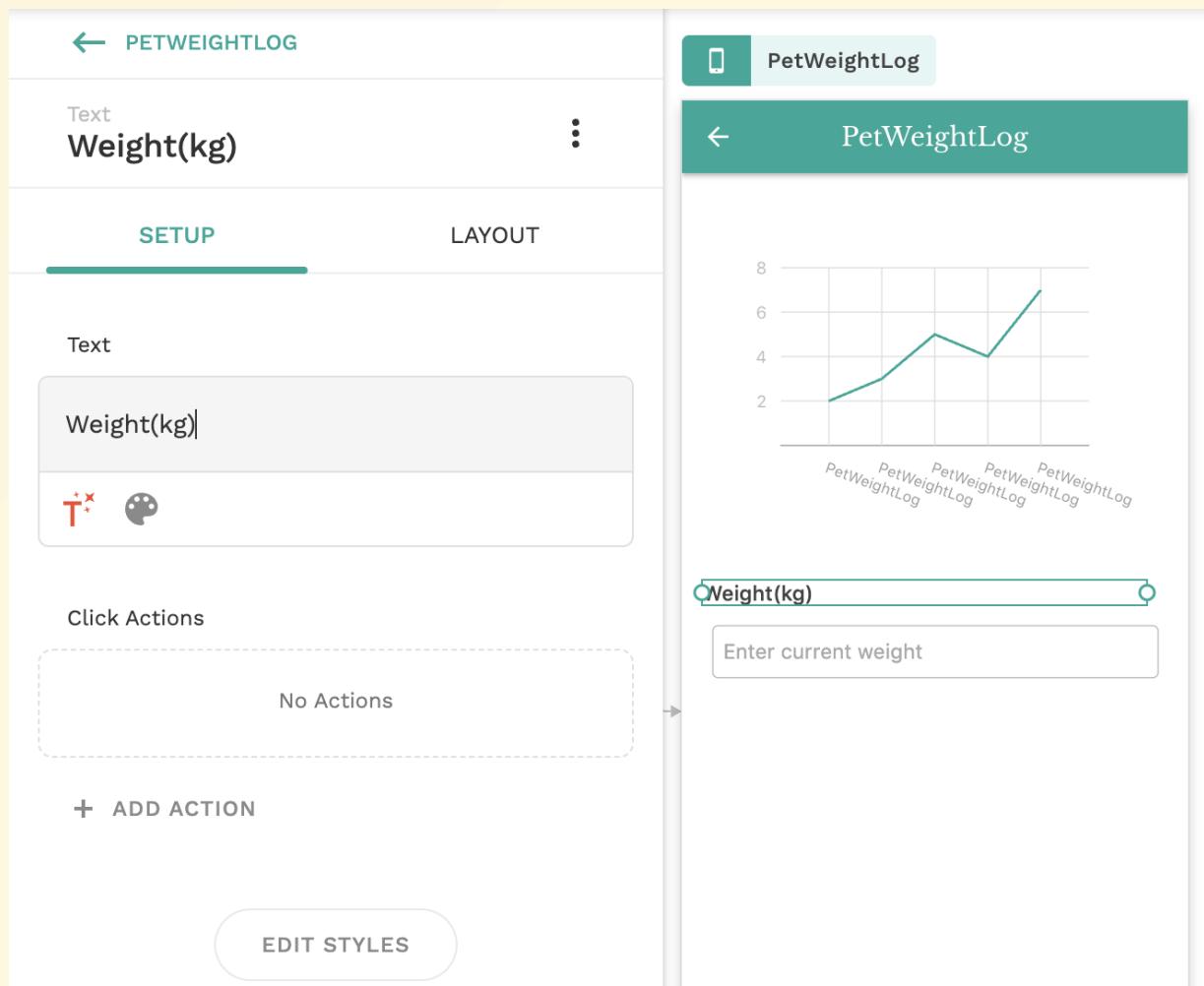
Ready to show the graph.

Next, let's make it possible to record weight.

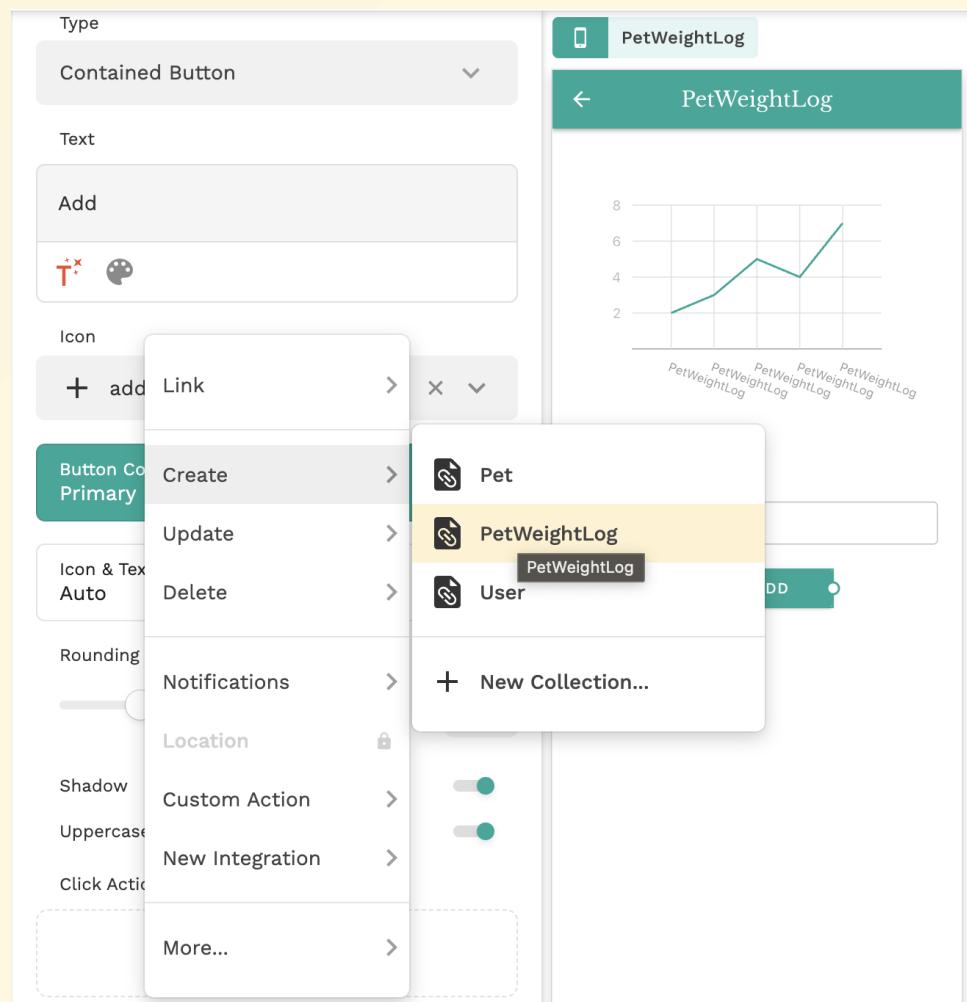
- From ADD COMPONENT, add Text Input
- Change the Type to Number
- Change the Placeholder to Enter current weight



- Add Text from ADD COMPONENT
- Change the value to Weight(kg)



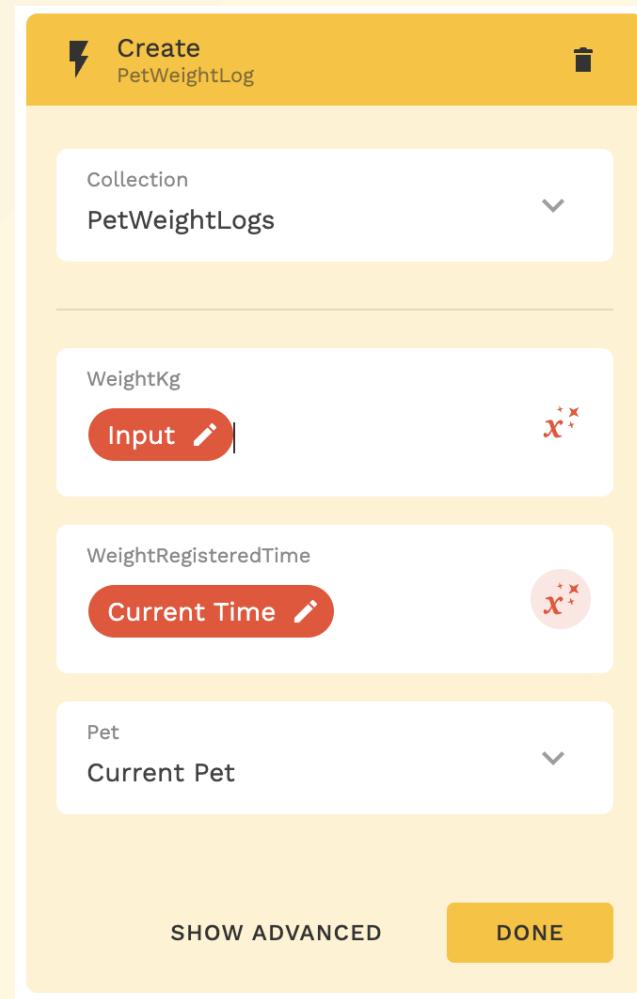
- Add Button from ADD COMPONENT
- Change Text to Add
- Choose Create > PetWeightLog from ADD ACTION



Set the following for the Action.

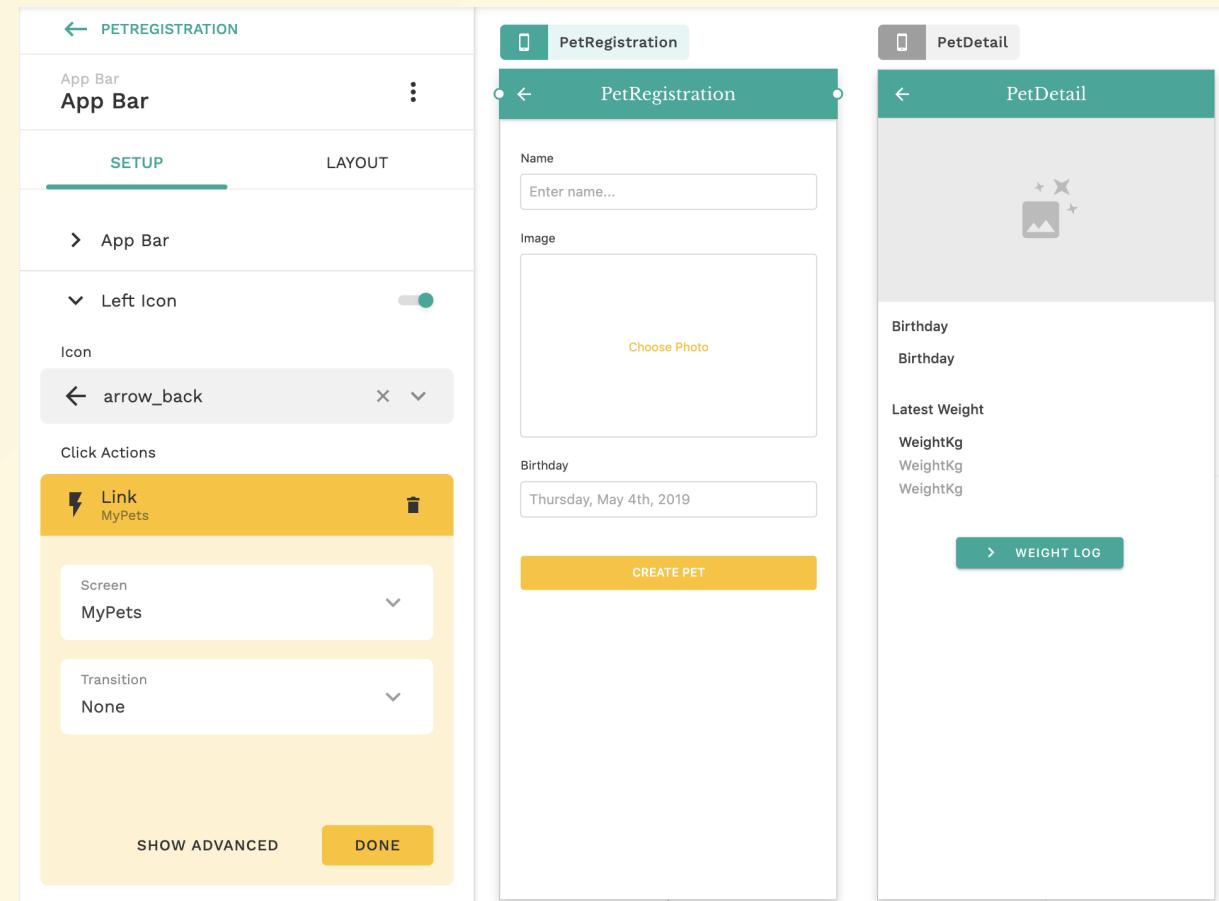
- WeightKg: Other Components > Input
- WeightRegisteredTime: Date & Time > Current Time
- Pet: Current Pet

Weight log screen is done.

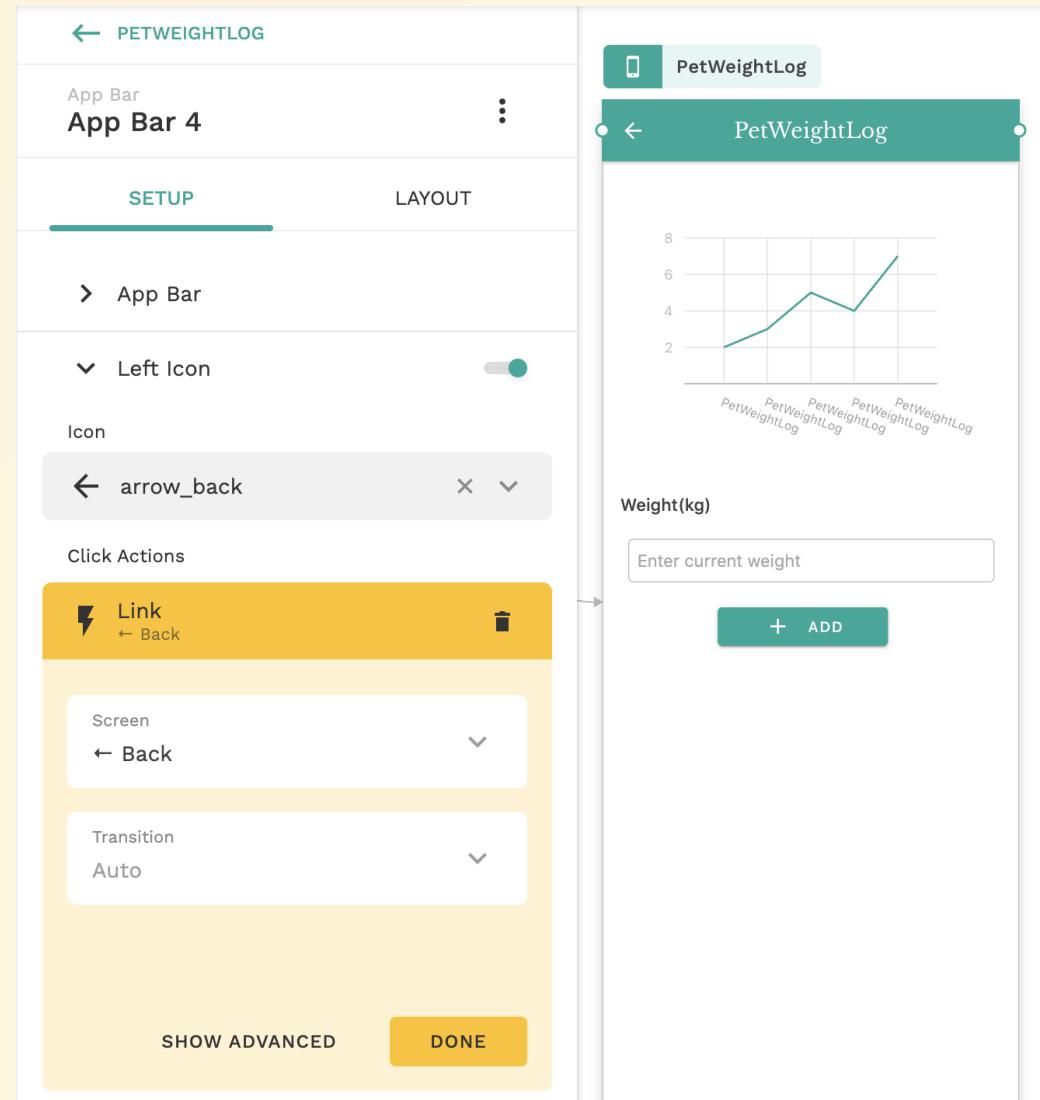


Let's set a link to the back icon in the header so that you can go back and forth between screens to check the operation.

- On each of the Pet Registration and Pet Details screens, add a link to MyPets to the Left Icon in the App Bar

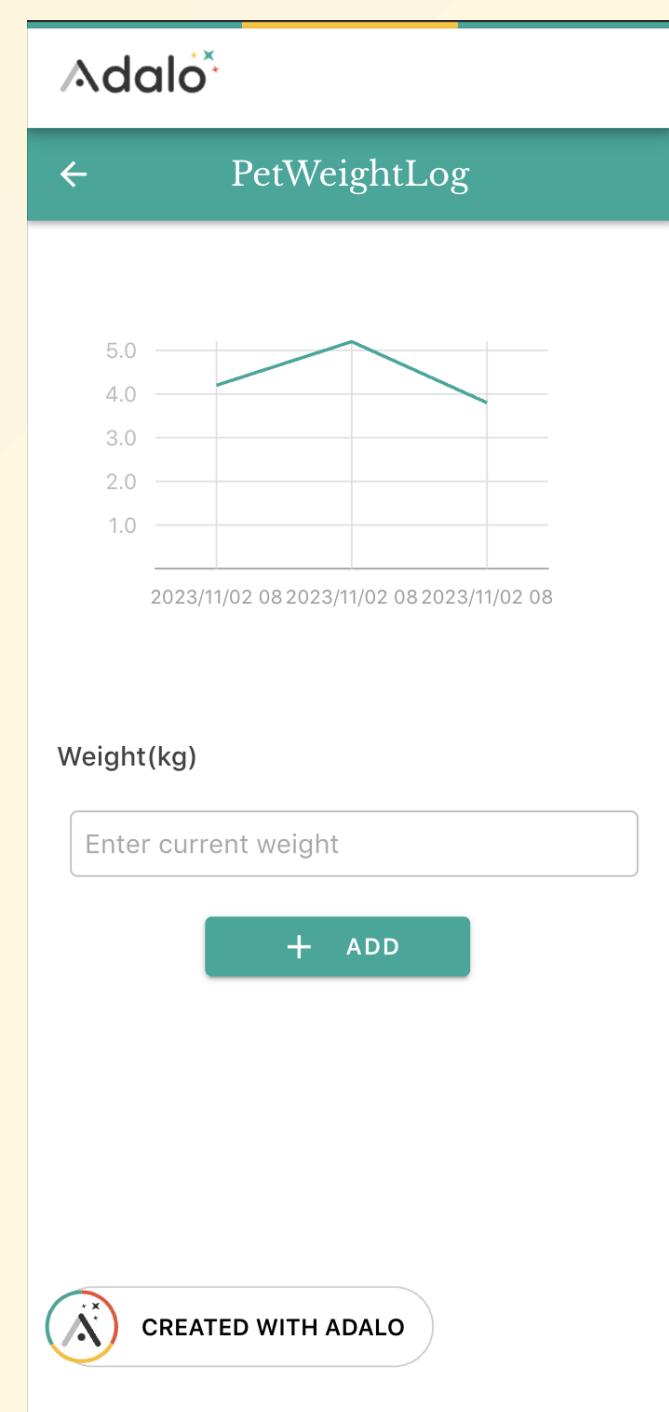


- On the Weight Record screen, select Back in the link in the Left Icon of the App Bar

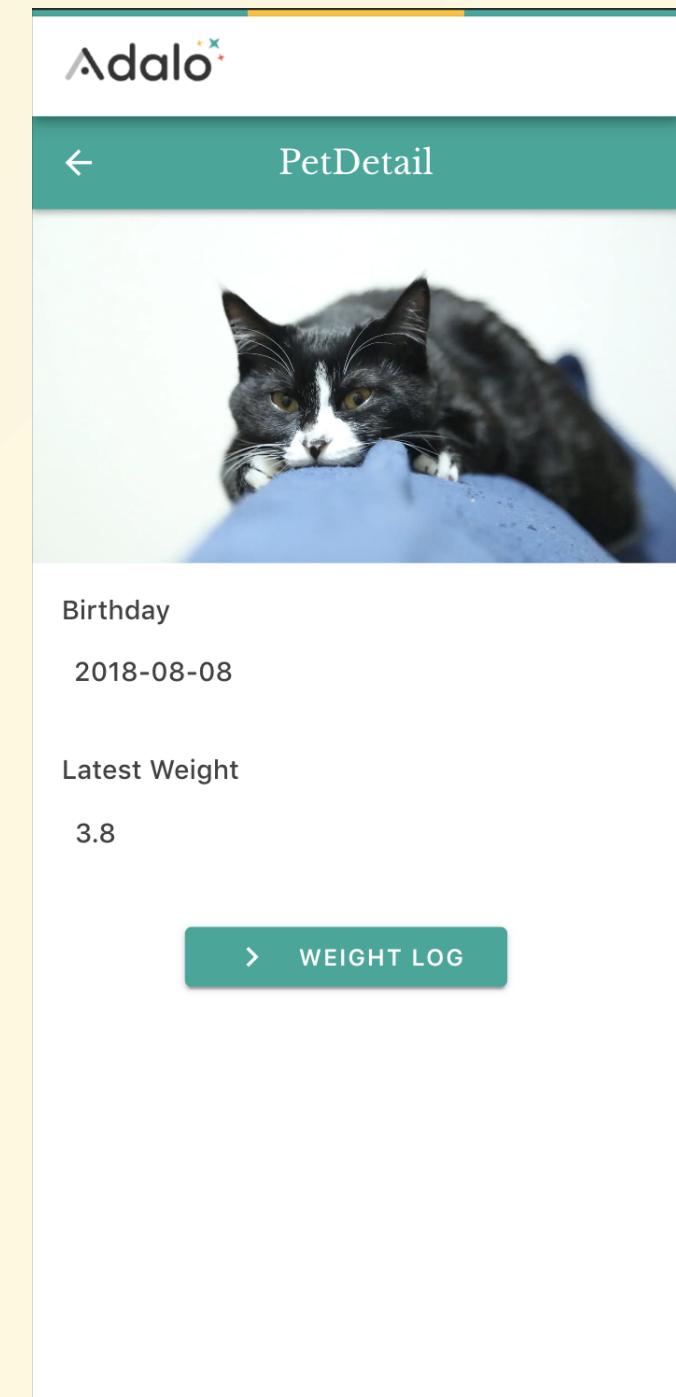


Check the graph with the Preview function. If you add multiple weights, the graph will be drawn.

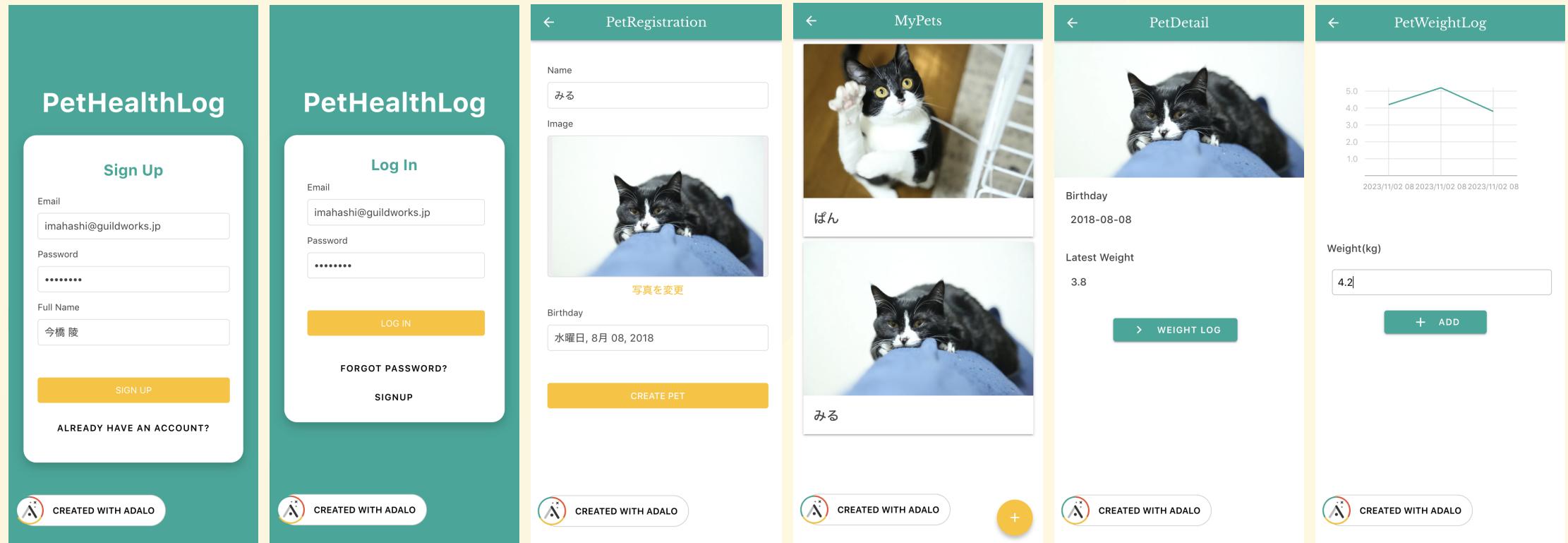
The date and time is long and not displayed properly. I wanted to test by registering multiple weights on the same day, so I used Date&Time type, but it would be better to use Date type and control that only one weight can be registered per day.



You can also see that the Latest Weight is now displayed in the pet details screen.



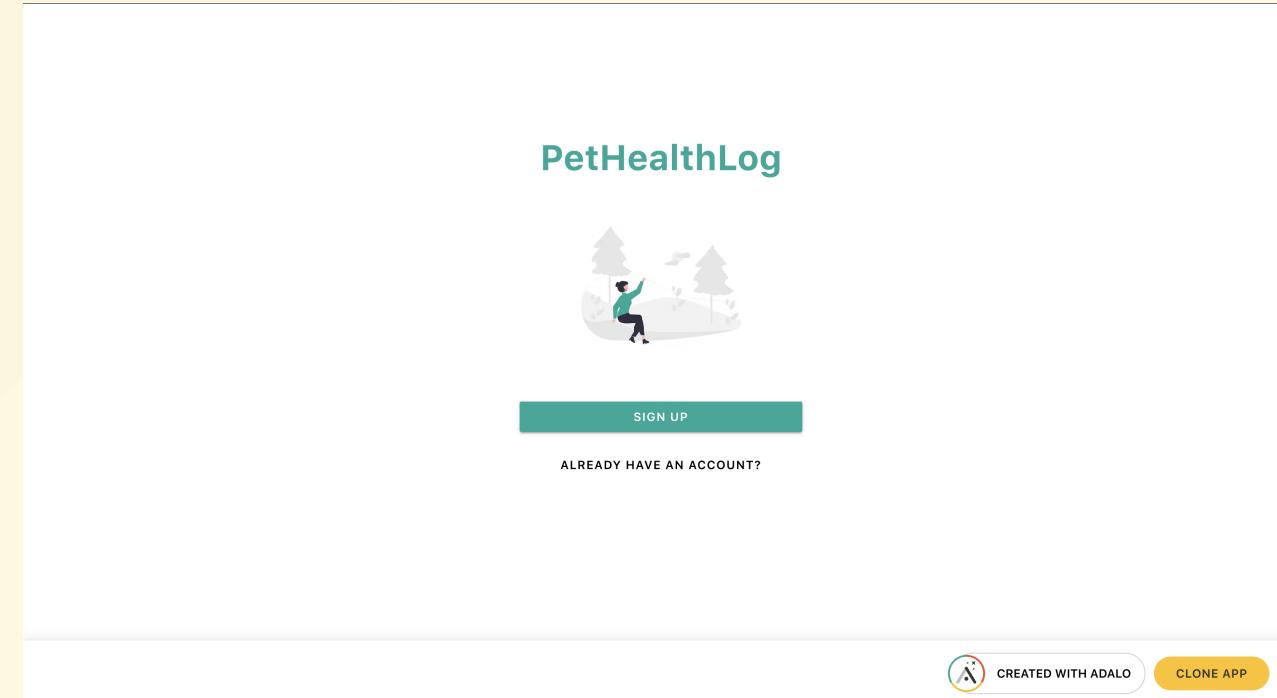
# You created a whole set of screens for the application 🎉



# URL for clone

- You can clone the app I created by the CLONE APP button in the lower right corner of the following URL.

<https://ryo-imahashisteam-6.adalo.com/pethealthlog>

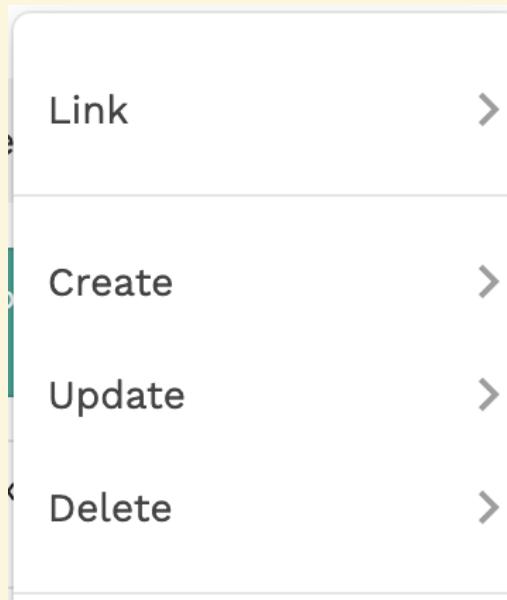


# 演習1

1. Create an edit pet screen where you can edit the information of registered pets
2. Add a function to delete a registered pet.

## Hint

- When creating the Edit Pets screen, please refer to how to create the Pet Registration screen.
- You don't need a new screen for the pet deletion function, so please think about where to add the delete button!
- When adding ACTION, you can choose Update or Delete





# 演習1の答え合わせ

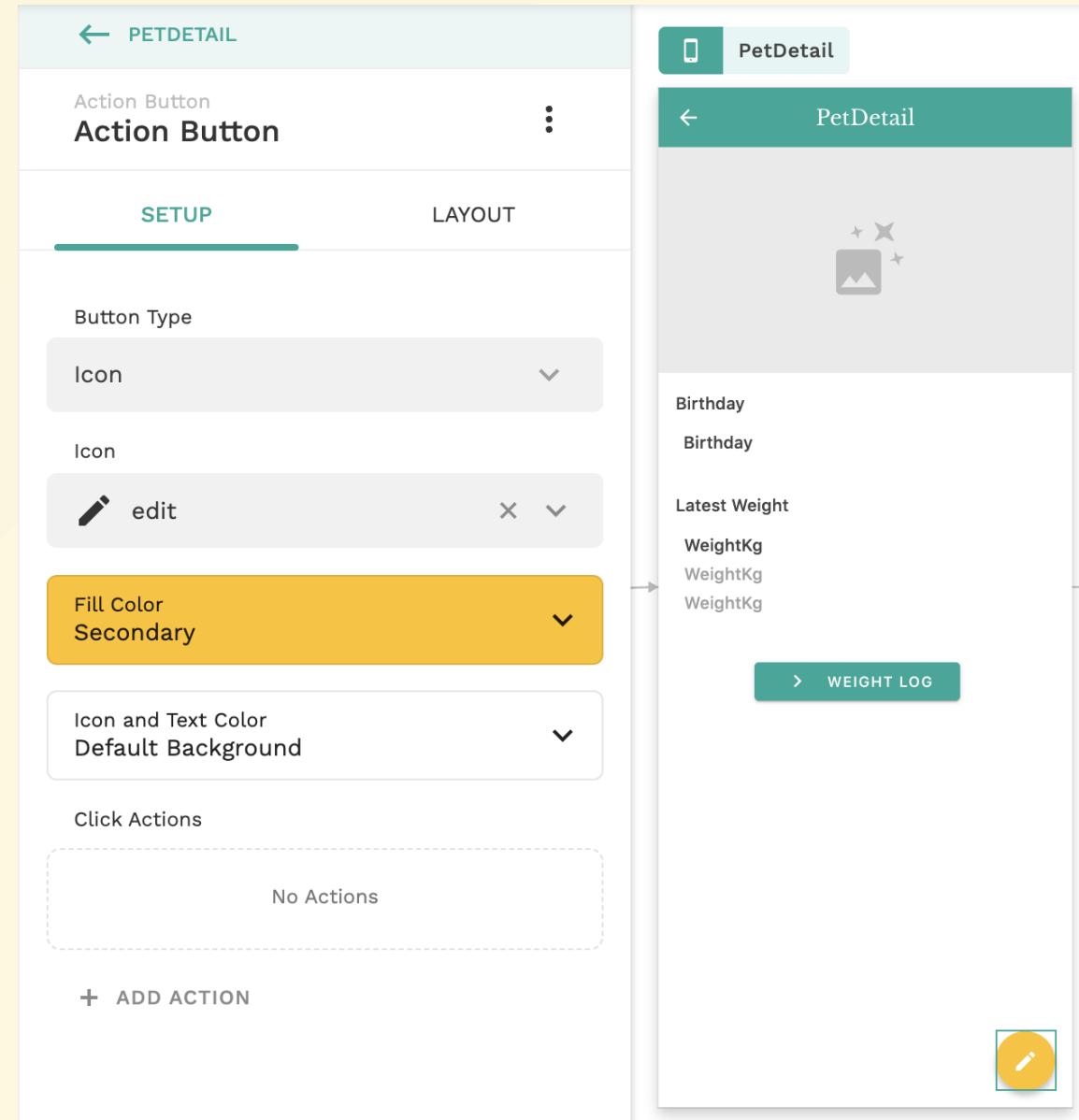
Try it by yourself first, then see the answer in following pages 🙏

## Pet Edit Screen

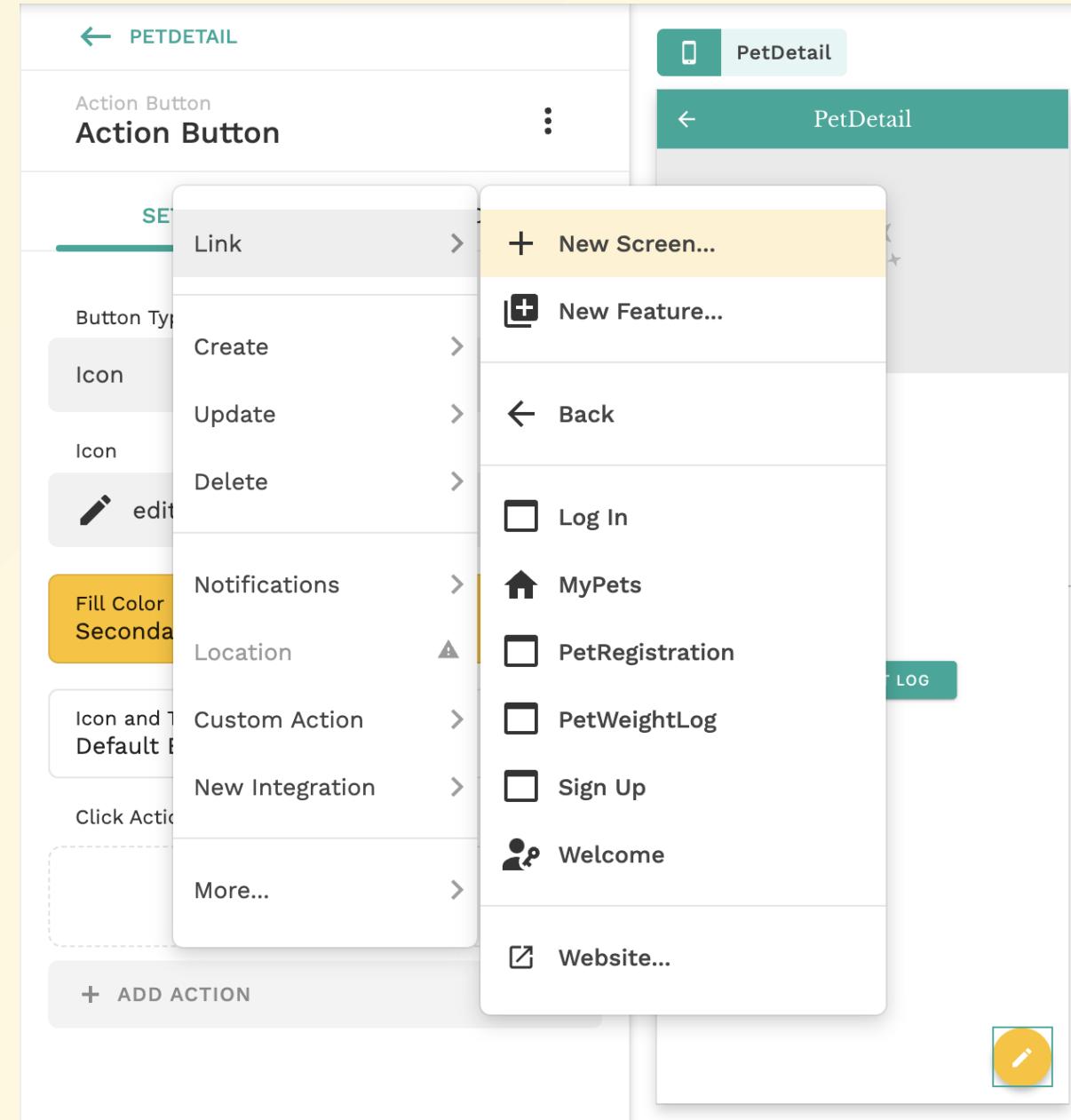
Create a new pet edit screen where you can update the information of your registered pets.

First, add a lead to the pet information edit screen to the pet details screen.

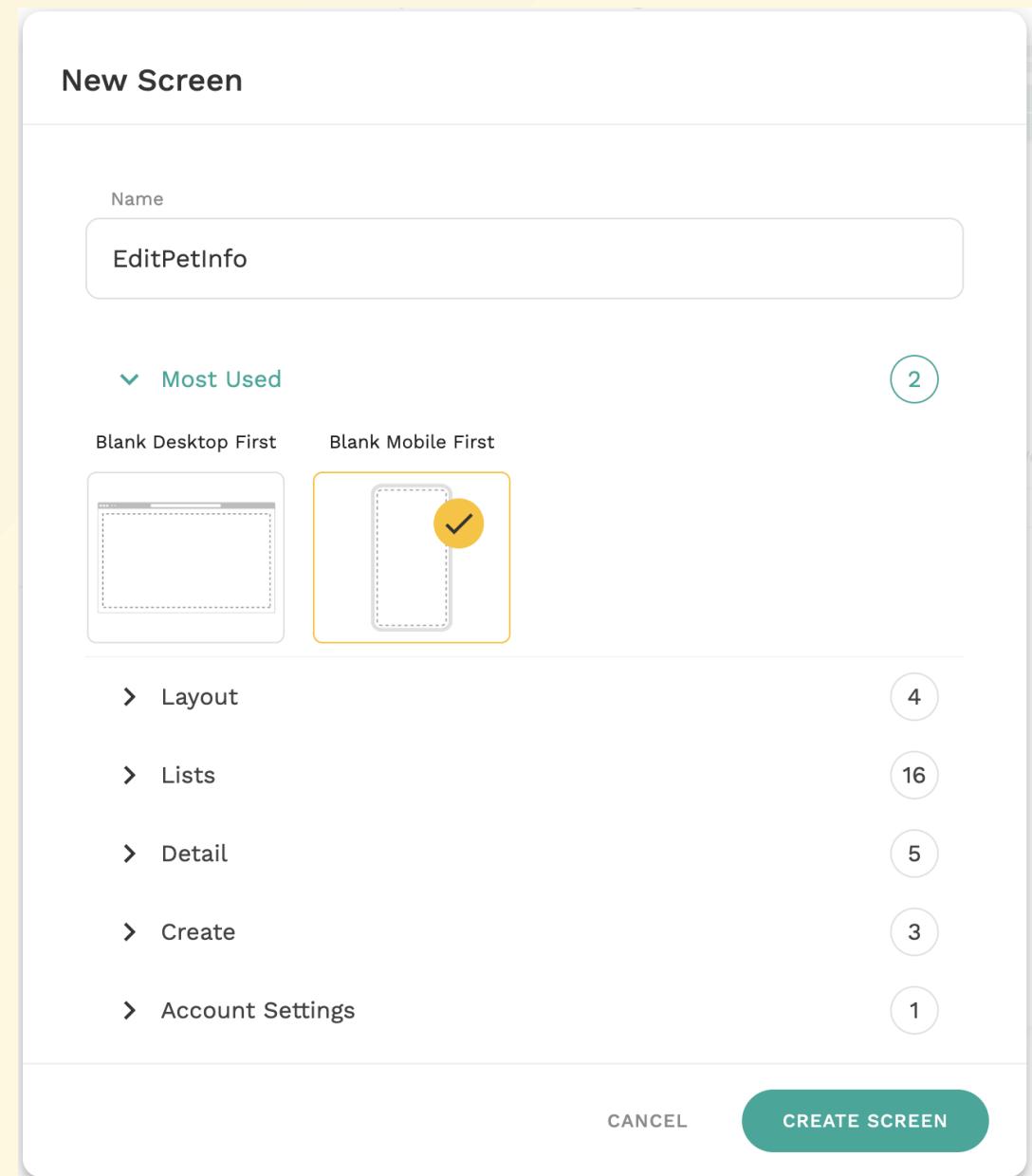
- Add Action Button from ADD COMPONENT
- Change Icon to edit.
- Change Icon and Text Color to Default Background(white)



- Select Link > New Screen from ADD ACTION



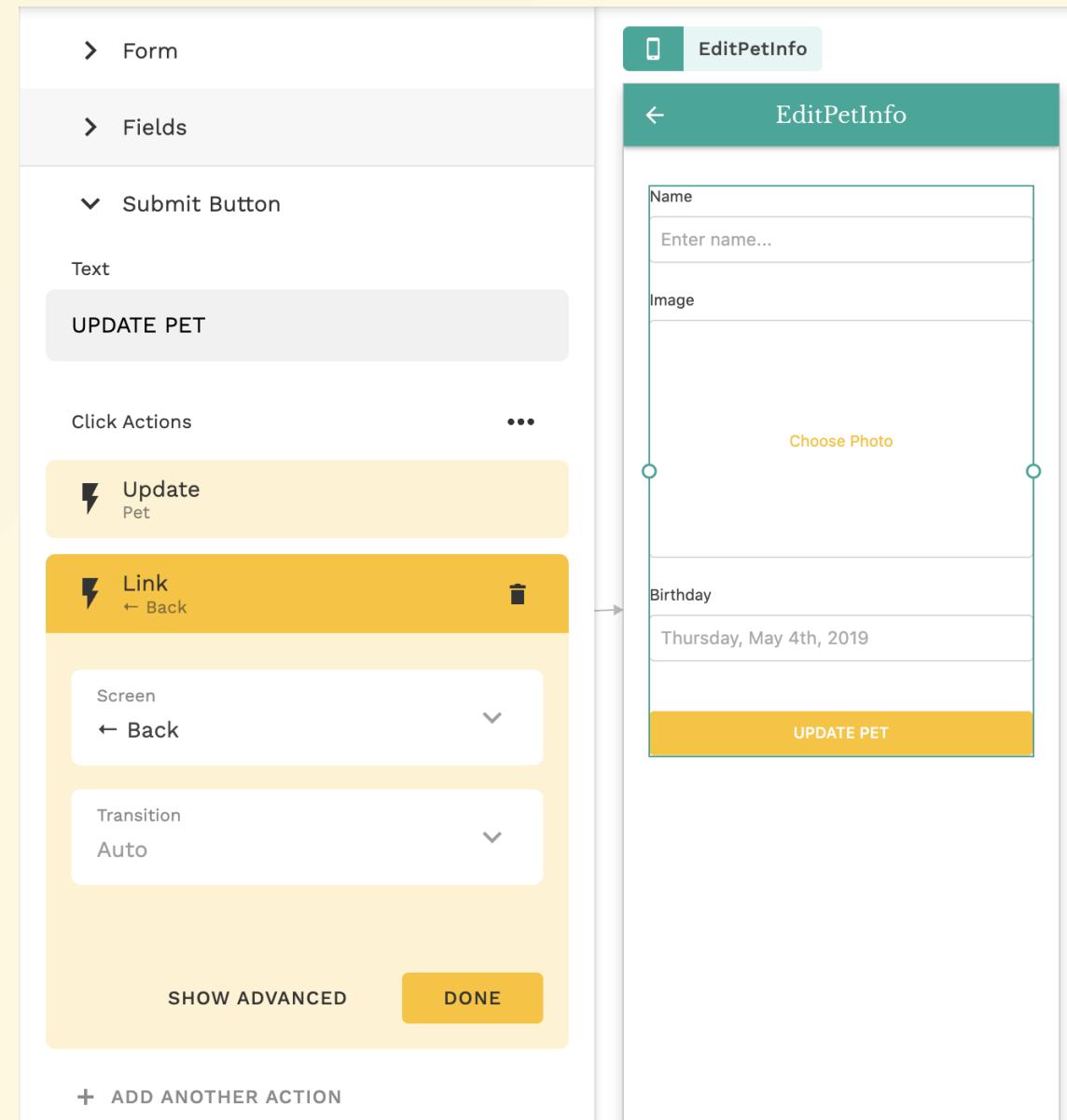
- Select Blank Mobile First and create EditPetInfo screen



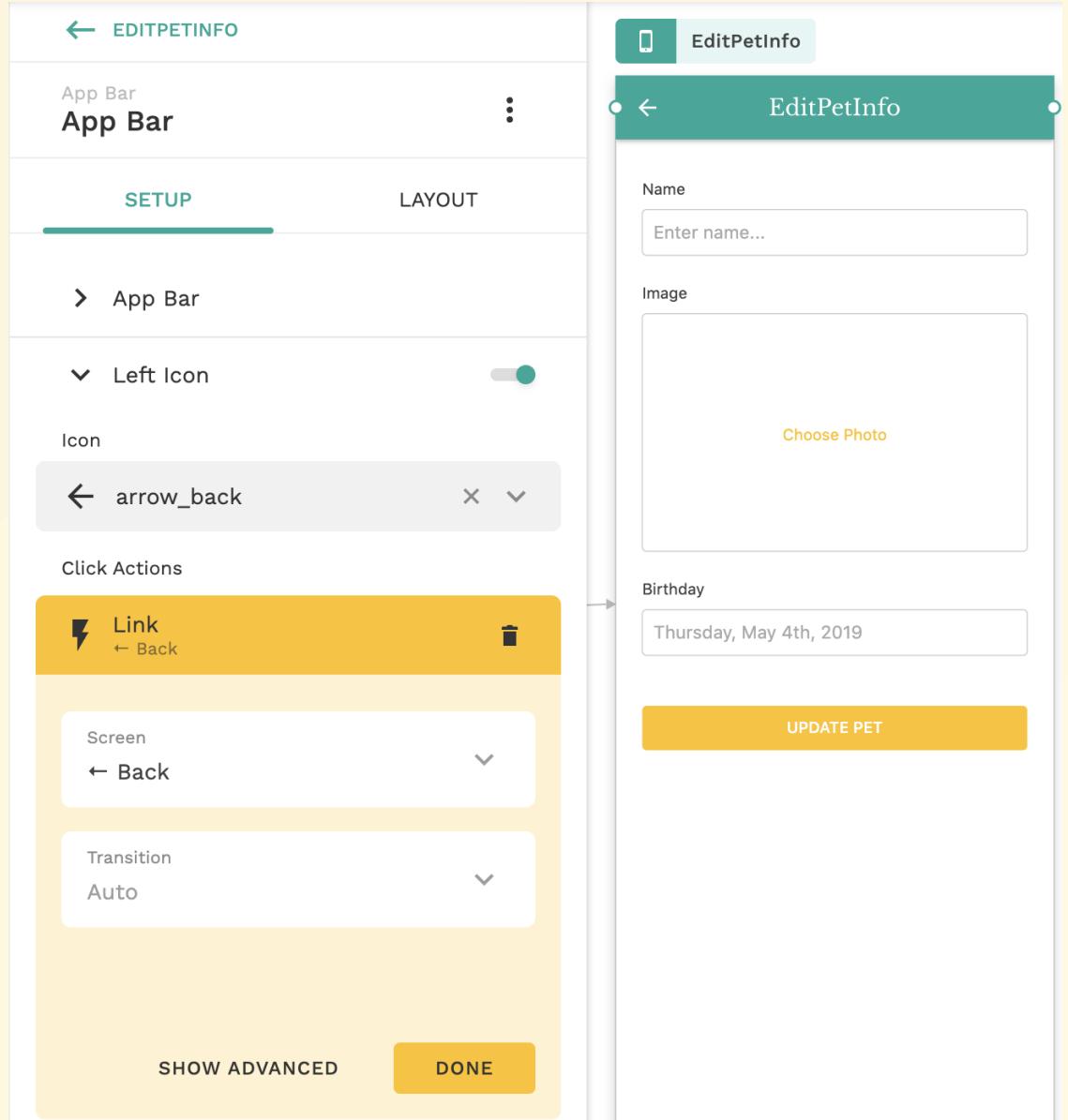
- Add App Bar and change Title to EditPetInfo
- Add Form and set the following
  - Pets for Under Which data collection?
  - Update Current Pet for What do you want the form to do?
- In Fields, change the order of Birthday and Image.

The screenshot shows two views of a mobile application. On the left is the 'Form' configuration screen with a title 'EDITPETINFO'. It has tabs for 'SETUP' and 'LAYOUT'. Under 'SETUP', there's a dropdown for 'Which data collection?' set to 'Pets', and another dropdown for 'What do you want the form to do?' set to 'Update Current Pet'. Below these are sections for 'Fields' and 'Submit Button'. On the right is the resulting 'EditPetInfo' screen with a title bar. It contains fields for 'Name' (with placeholder 'Enter name...'), 'Image' (with a 'Choose Photo' button), 'Birthday' (set to 'Thursday, May 4th, 2019'), and a large yellow 'UPDATE PET' button at the bottom.

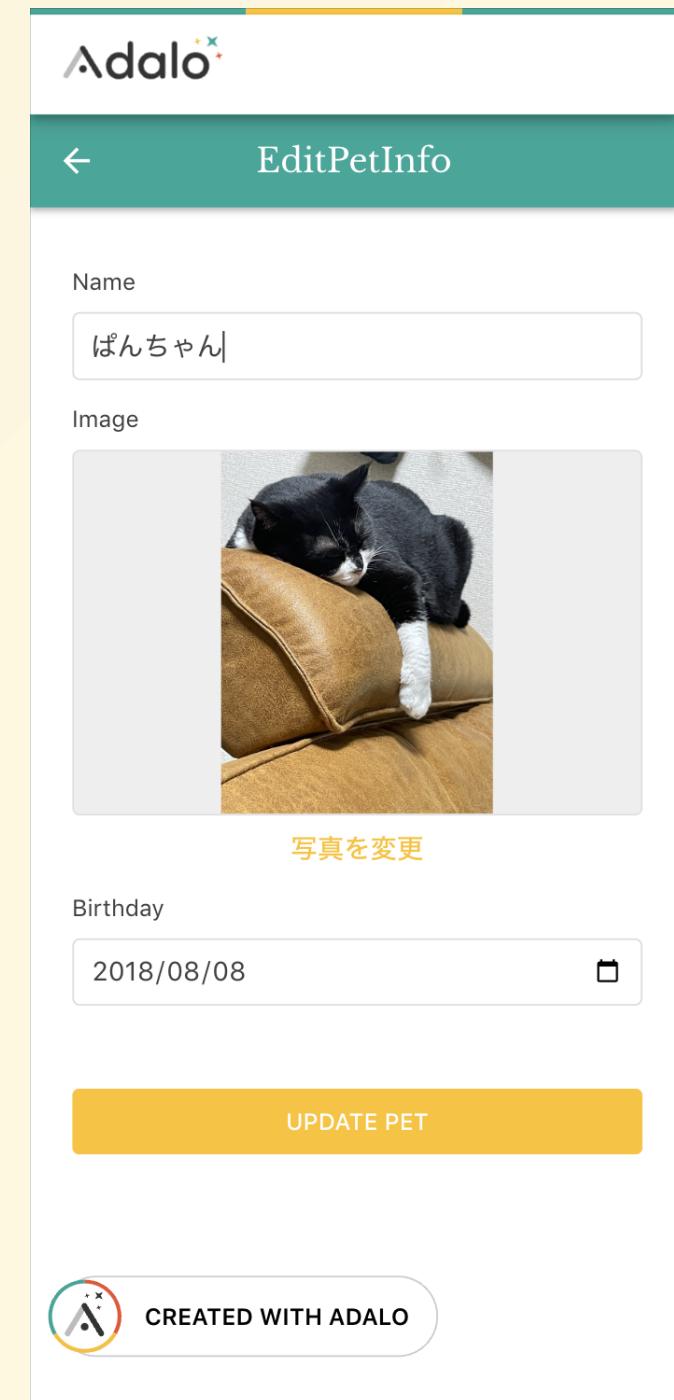
- Add a link back to the Submit Button on the Form



- Add back link to Left Icon of App Bar.

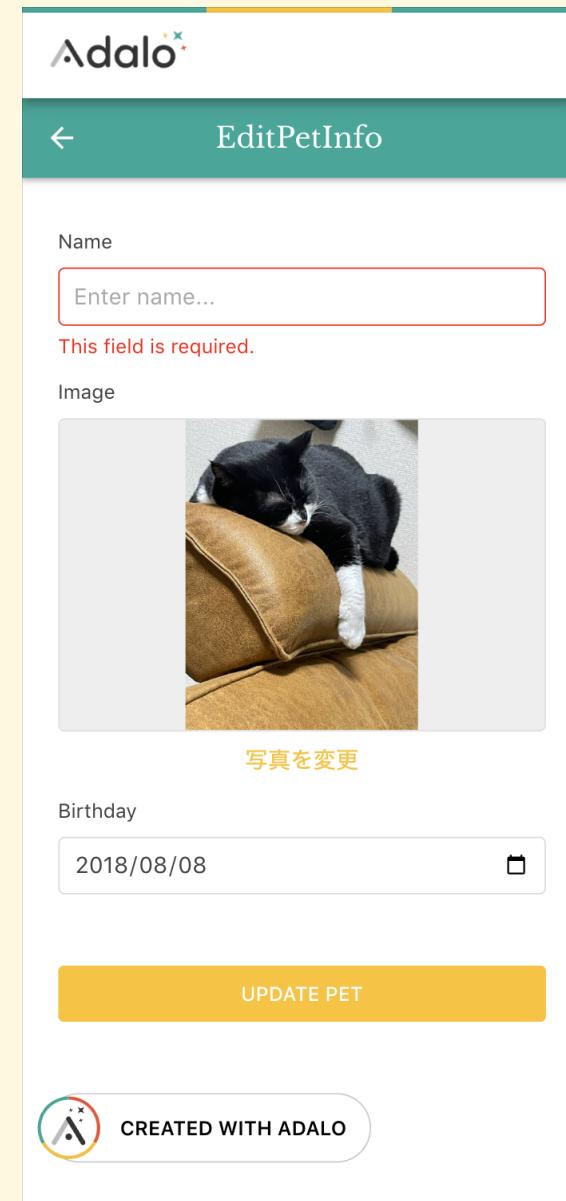
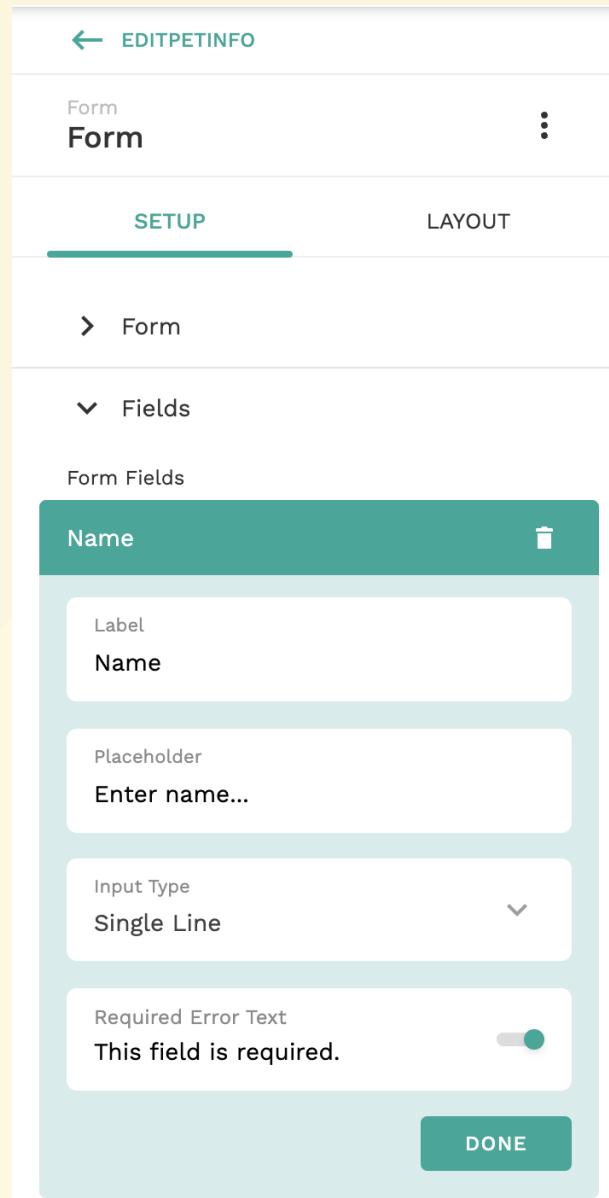


Make sure the Edit Pet Info screen is available in the Preview function.



FYI

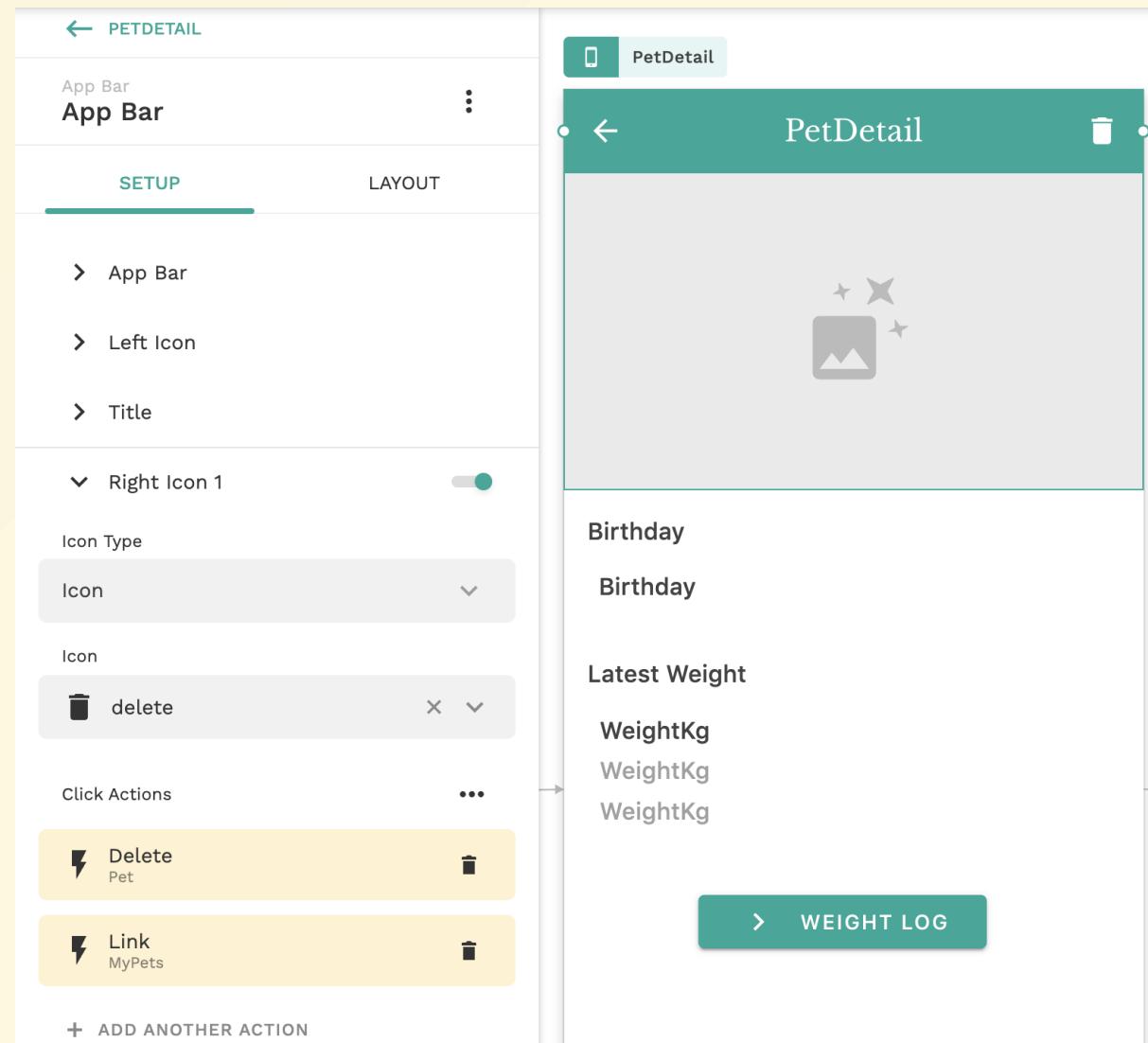
- The Required Error Text of the Field in the Form component is checked by default, and an error message will be displayed if that field is not filled in.
- Let's check it by clicking UPDATE PET with no entry!



## Pet Delete Function

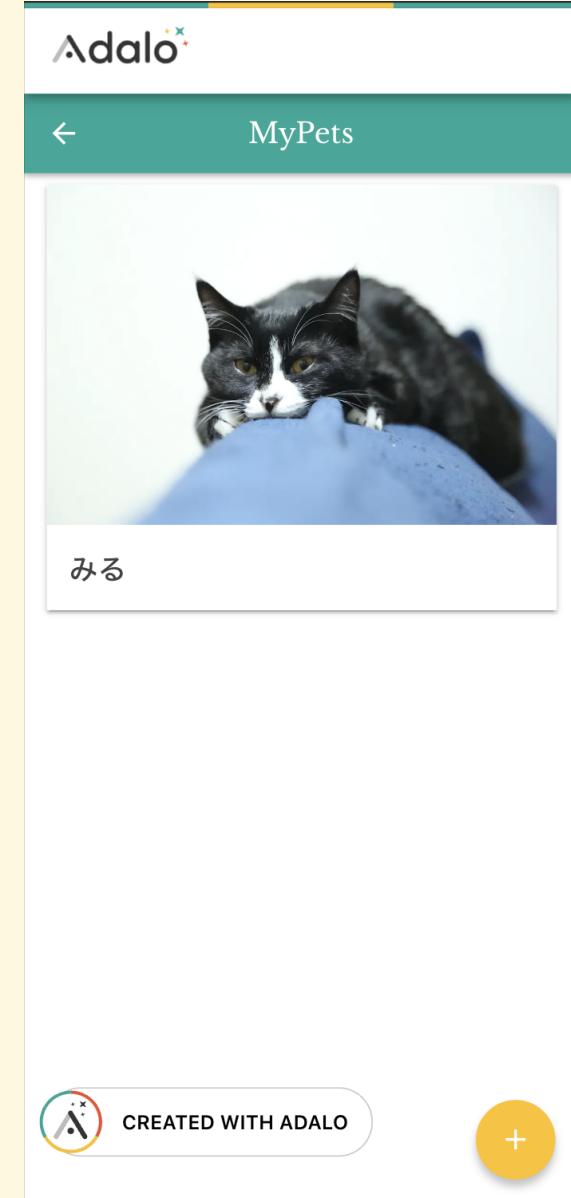
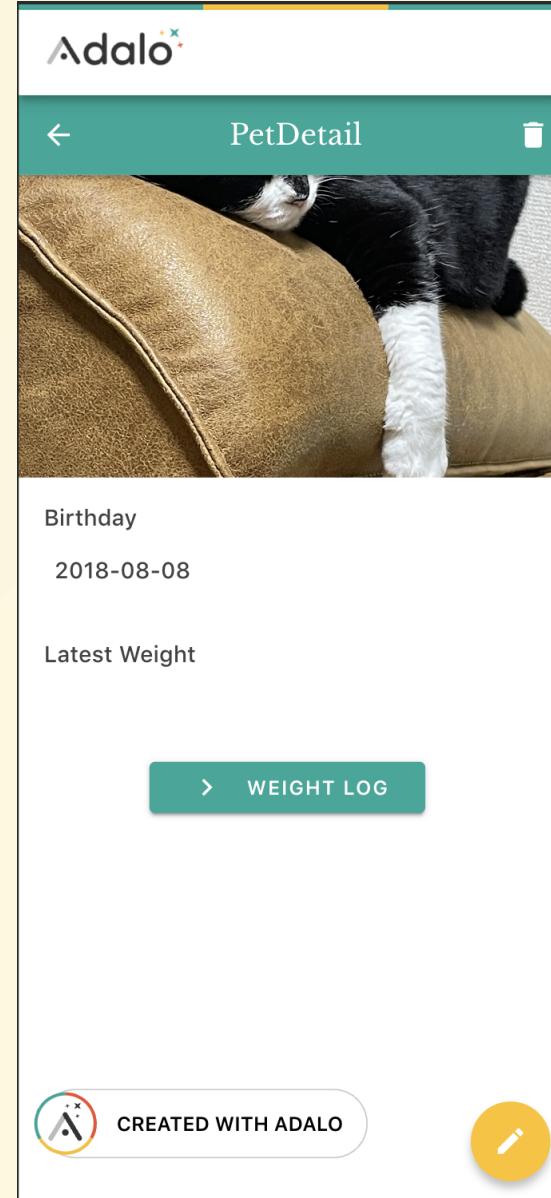
Add a button to delete a registered pet on the pet details screen.

- Select App Bar and turn on the Right Icon 1 toggle
- Change Icon to DELETE
- Select Delete > Current Pet from ADD ACTION
- Select Link > Mypets from ADD ANOTHER ACTION



# Let's preview deleting function.

When the deletion is completed and you move to the Pets List screen, the deleted pets will not be displayed.

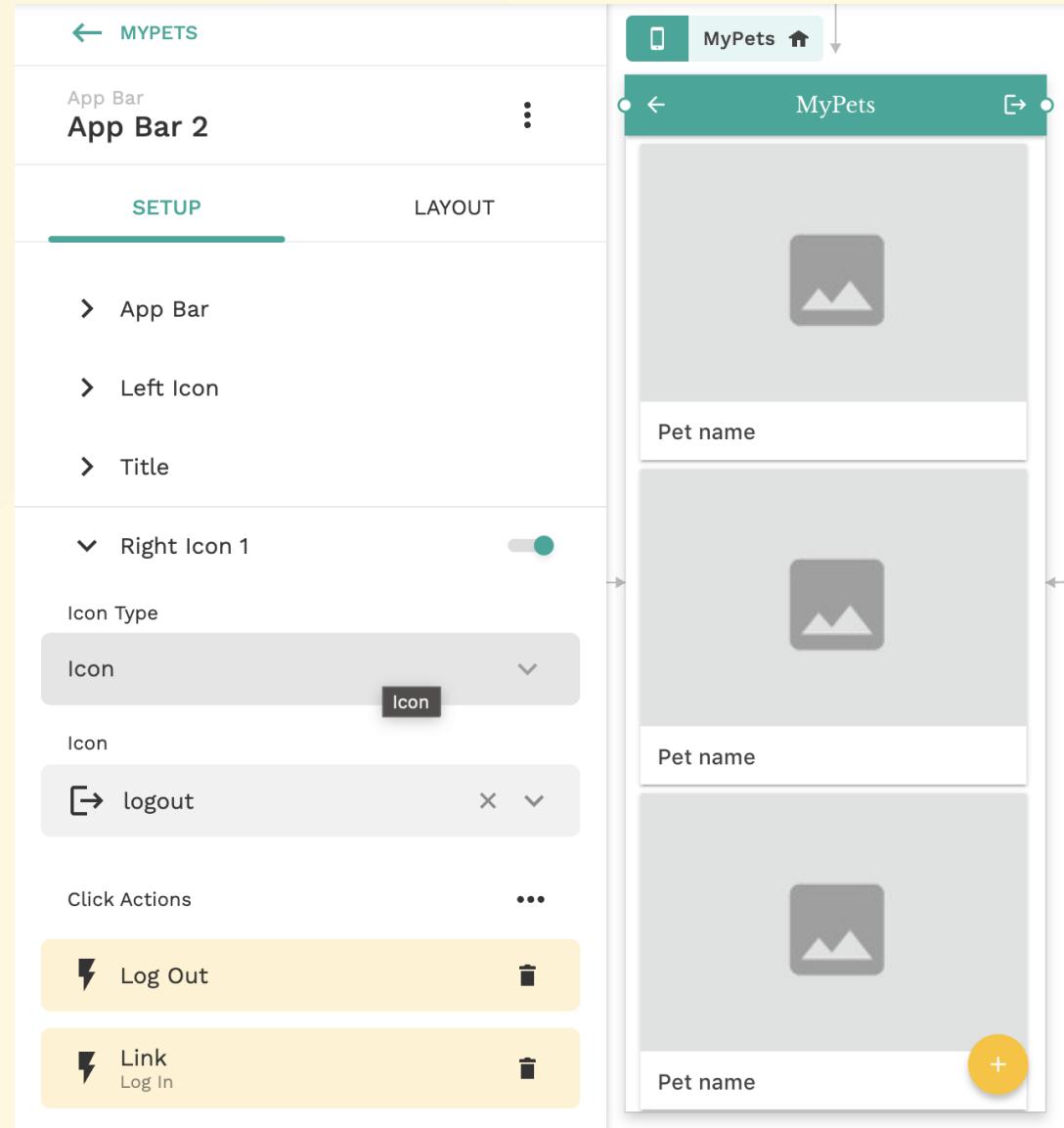


# Sample application improvement

We will improve the sample app by using Adalo features that I have not yet introduced.

# Logout

- Select AppBar on the pet list screen and activate Right Icon 1
- Change Icon to logout
- ADD ACTION > More... > Select User Login > Log Out
- Select ADD ANOTHER ACTION > Link > Login

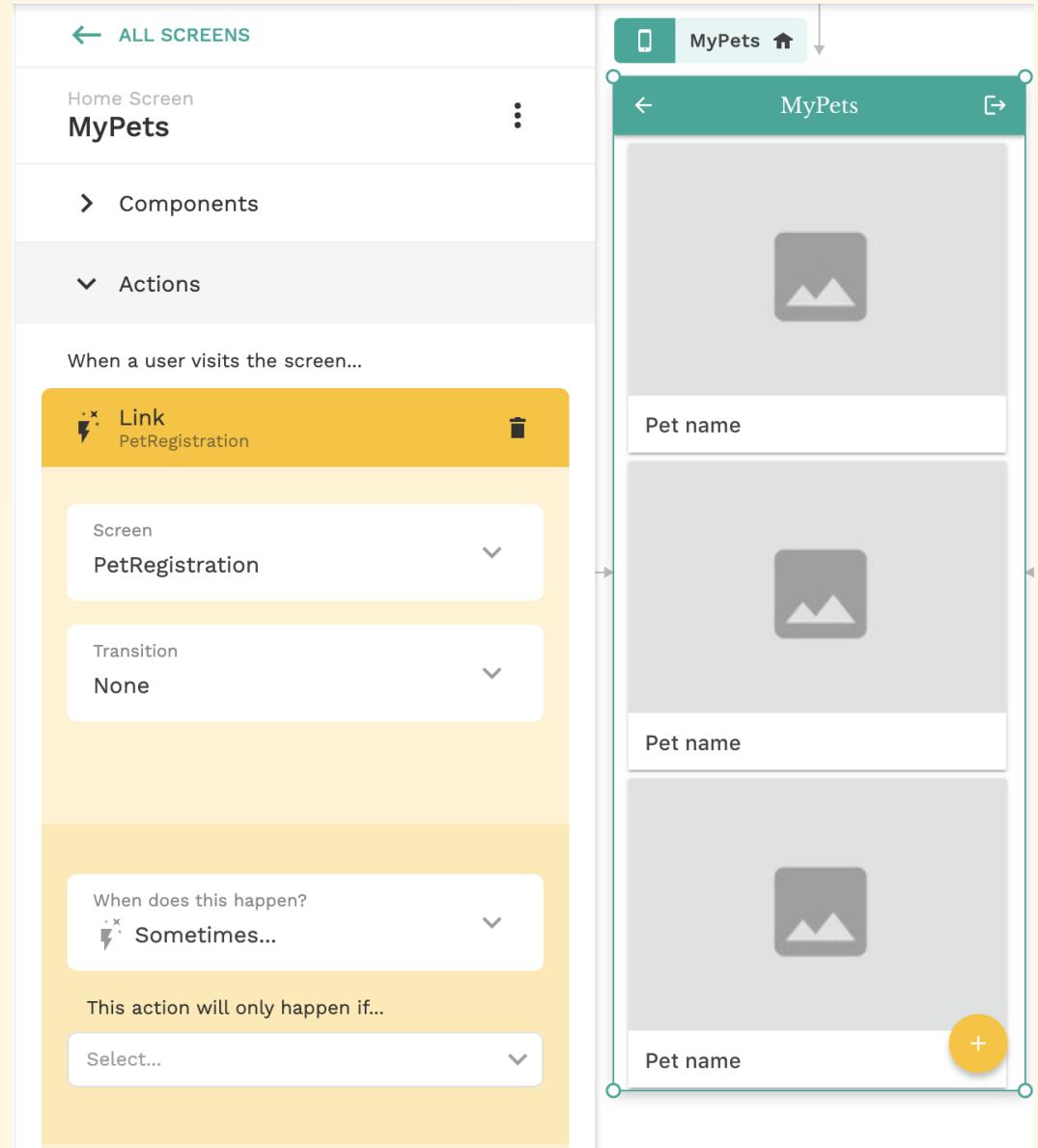


Use the Preview function to check it out.  
Clicking on the added icon now logs you out and takes you to the  
login screen.

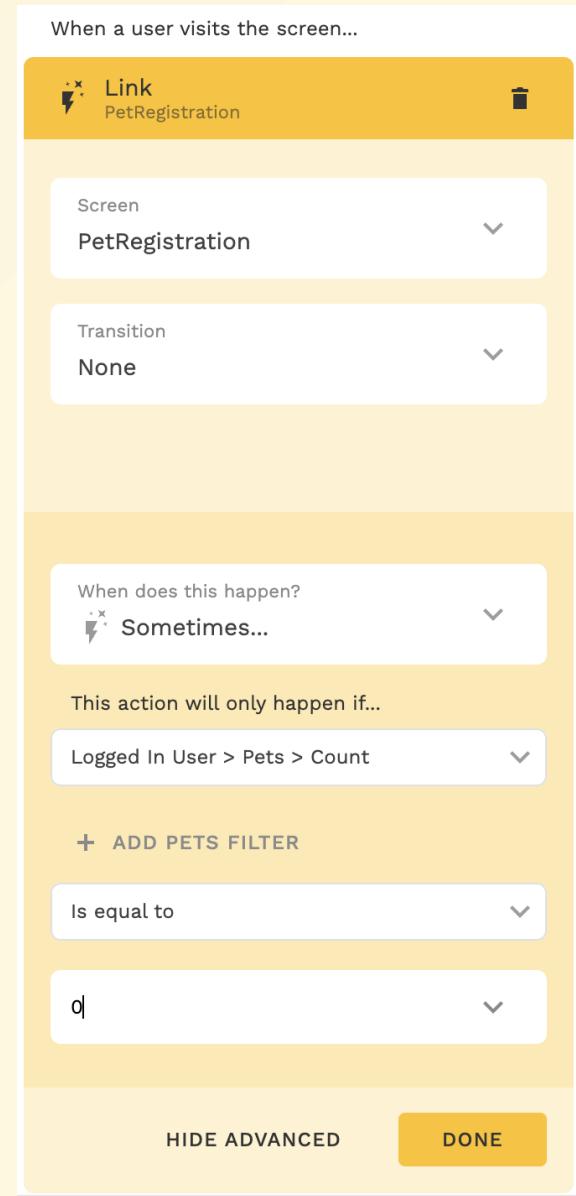
# Action execution condition setting

If a pet is unregistered and the Pet List screen is displayed, it will transition to the Pet Registration screen.

- Select Actions > ADD ACTION > Link > Pet Registration on the Pet List screen.
- Click SHOW ADVANCED and change When does this



- Select More > Logged In User's > Pets' > Count in This action will only happen if...
- Change the number under Is equal to to 0



Check it out with the Preview function.

Signup as a new user and you will be redirected from the Pet List screen to the Pet Registration screen.

## Selective Input Form

Add gender to the pet information and allow selective input on the input form.

The choices used in the selective input form are prepared as records by adding a Collection to the database.

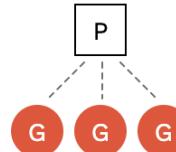
- ADD Genders Collection to database (Property can be left as default)
- Click Records > ADD GENDER and add two Records, Male and Female

Genders					
<input type="checkbox"/>	A Name	ID	Created	Updated	
<input type="checkbox"/>	Female	2	a few seconds ago	a few seconds ago	    
<input type="checkbox"/>	Male	1	a few seconds ago	a few seconds ago	

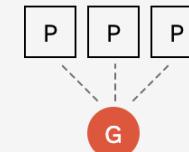
- Add a one-to-many Relationship with the Pets Collection to the Genders Collection
  - Since one pet has one gender and one gender has multiple pets.

### How are Pets & Genders related?

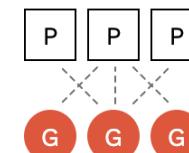
P = Pets    G = Genders



A Pet can have multiple Genders  
A Gender belongs to one Pet



A Pet can only have one Gender  
A Gender can have multiple Pets



A Gender can have multiple Pets  
A Pet can have multiple Genders

CANCEL

DONE

- Select the form on the pet registration screen
- Select Fields > ADD VISIBLE FIELD > Gender

**PetRegistration**

**PetRegistration**

**Fields**

Form Fields

- Name
- Image
- Birthday
- Gender**

**Gender**

Label: Gender

Placeholder: Select gender...

+ ADD CUSTOM FILTER

Sorting: Select...

Required Error Text: This field is required.

**DONE**

**PetRegistration**

**PetRegistration**

Name  
Enter name...

Image

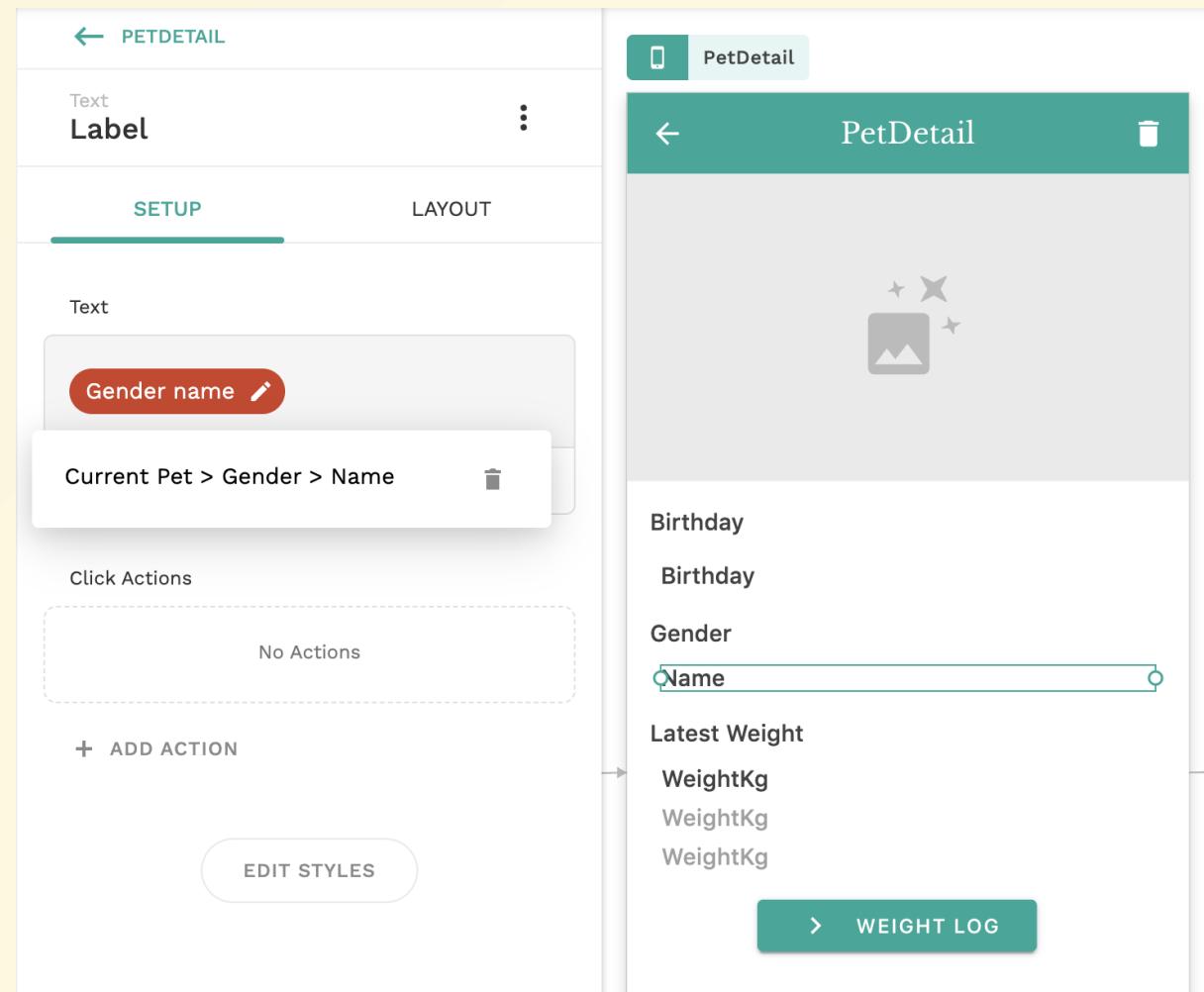
Choose Photo

Birthday  
Thursday, May 4th, 2019

Gender  
Select gender...

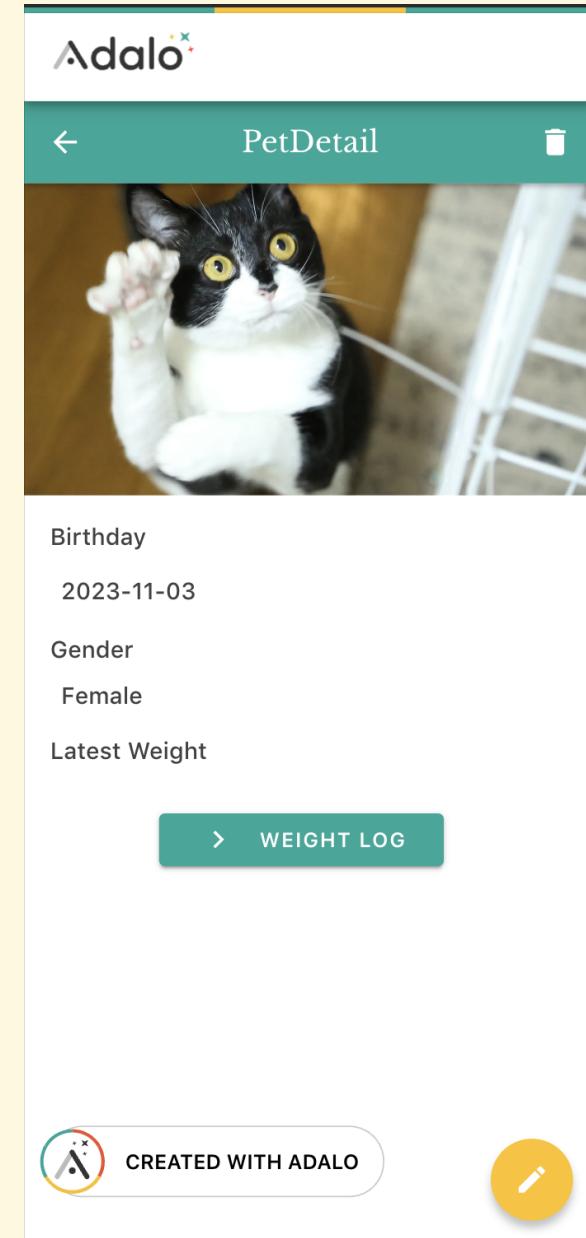
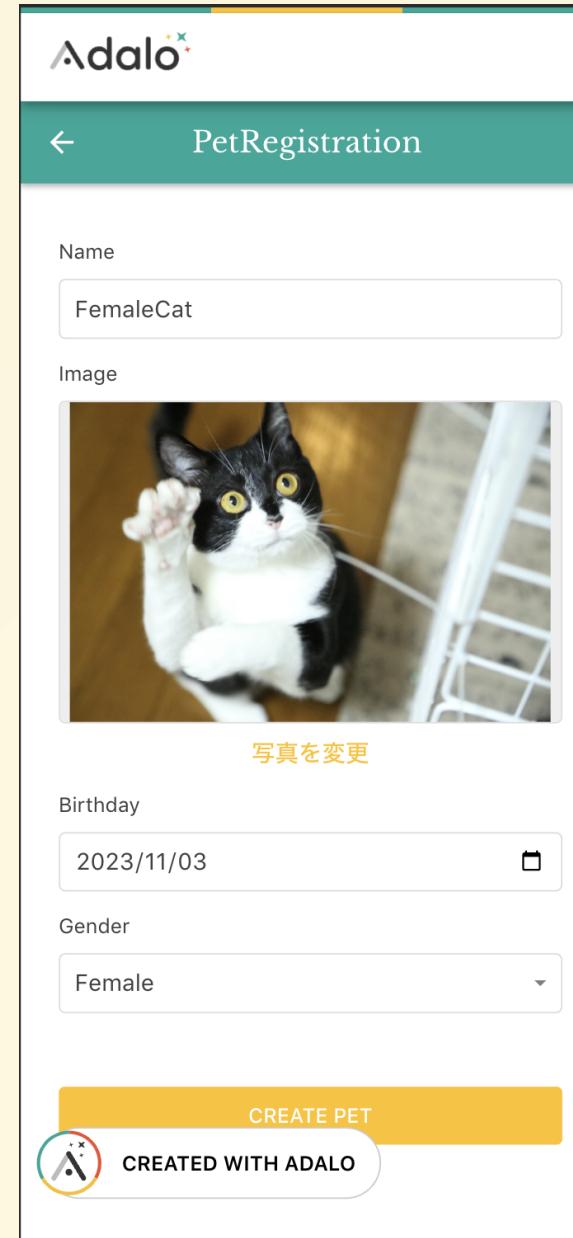
**CREATE PET**

- Add Gender field on Pet Details screen.



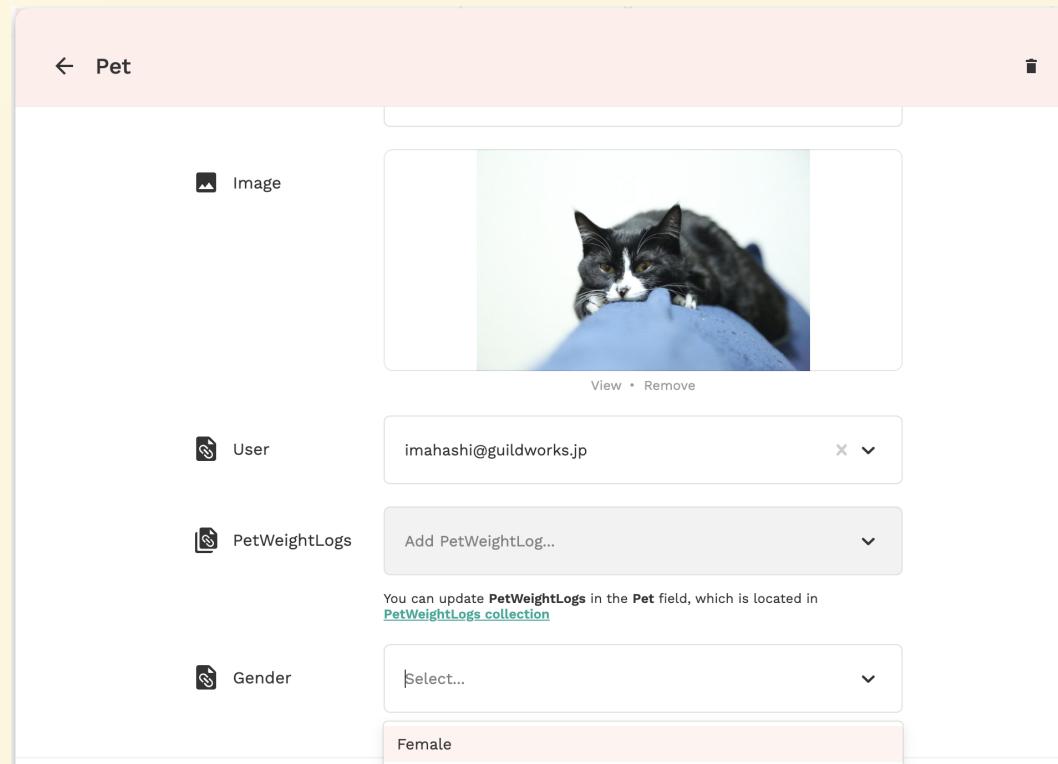
Let's check it with Preview function.

- Gender can be selected on the pet registration screen.
- The selected gender will be displayed on the pet details screen.



FYI

- If you are concerned about a blank space being displayed for a pet registered before you were able to select its gender, display the Record in the Pet Collection, click on that pet, and manually set its gender.



FYI

Multiple-choice input forms  
can be created using  
MultiselectDropdown in  
Marketplace.

If you need it, give it a try.

 **Multiselect Dropdown**

Made with ❤ by Conroy Whitney



Select multiple items from a dynamically-generated list.

 **INSTALL**

 **30.8k Installs**

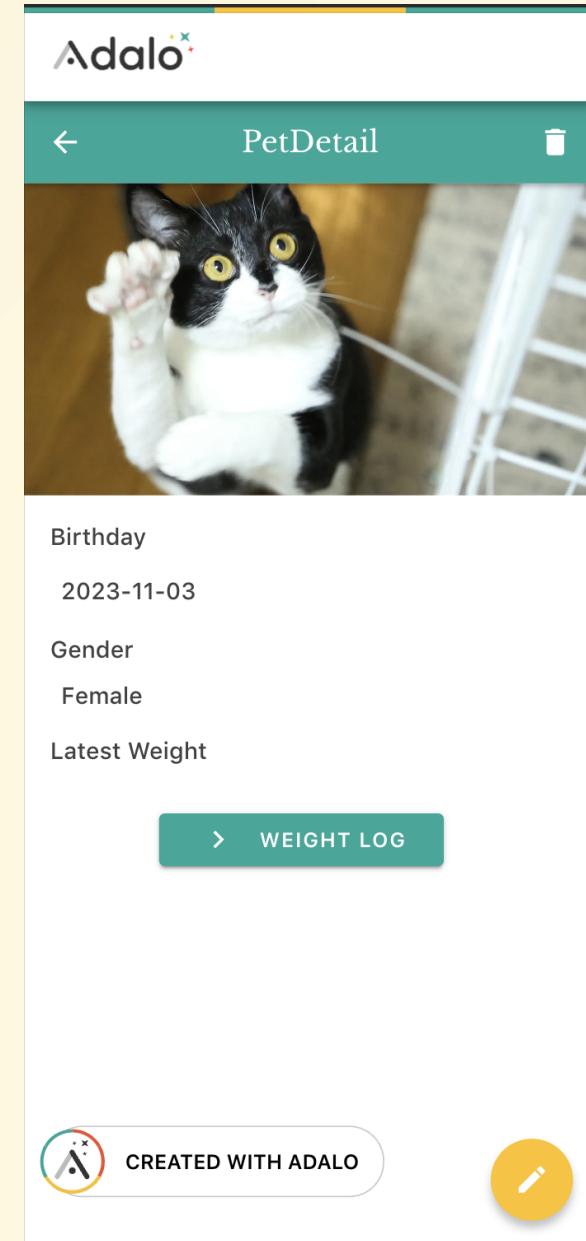
 **Last Updated a year ago**

 **Contact Developer**

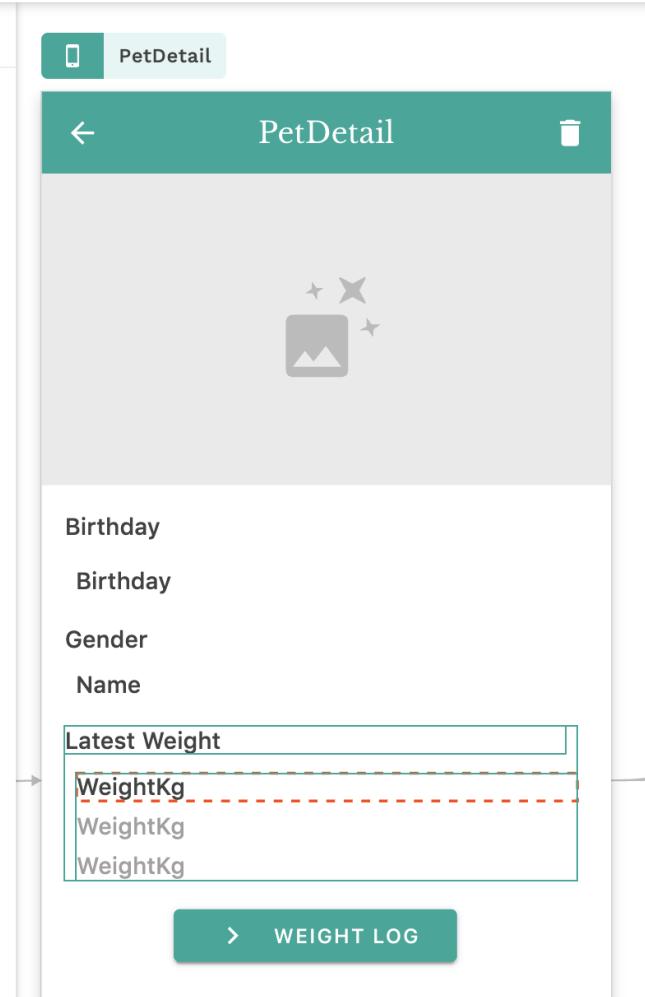
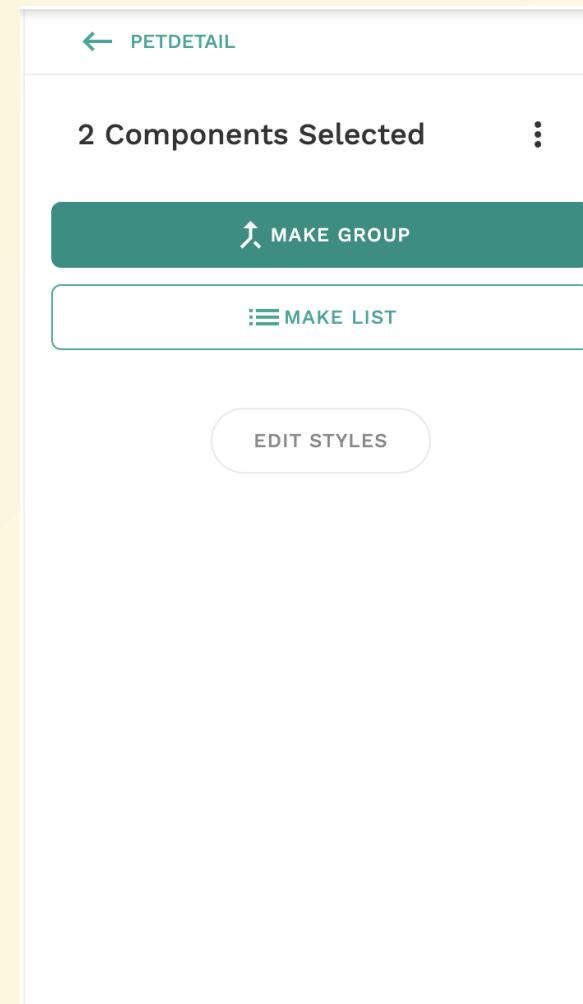
**BACK**

# Show or hide components depending on conditions.

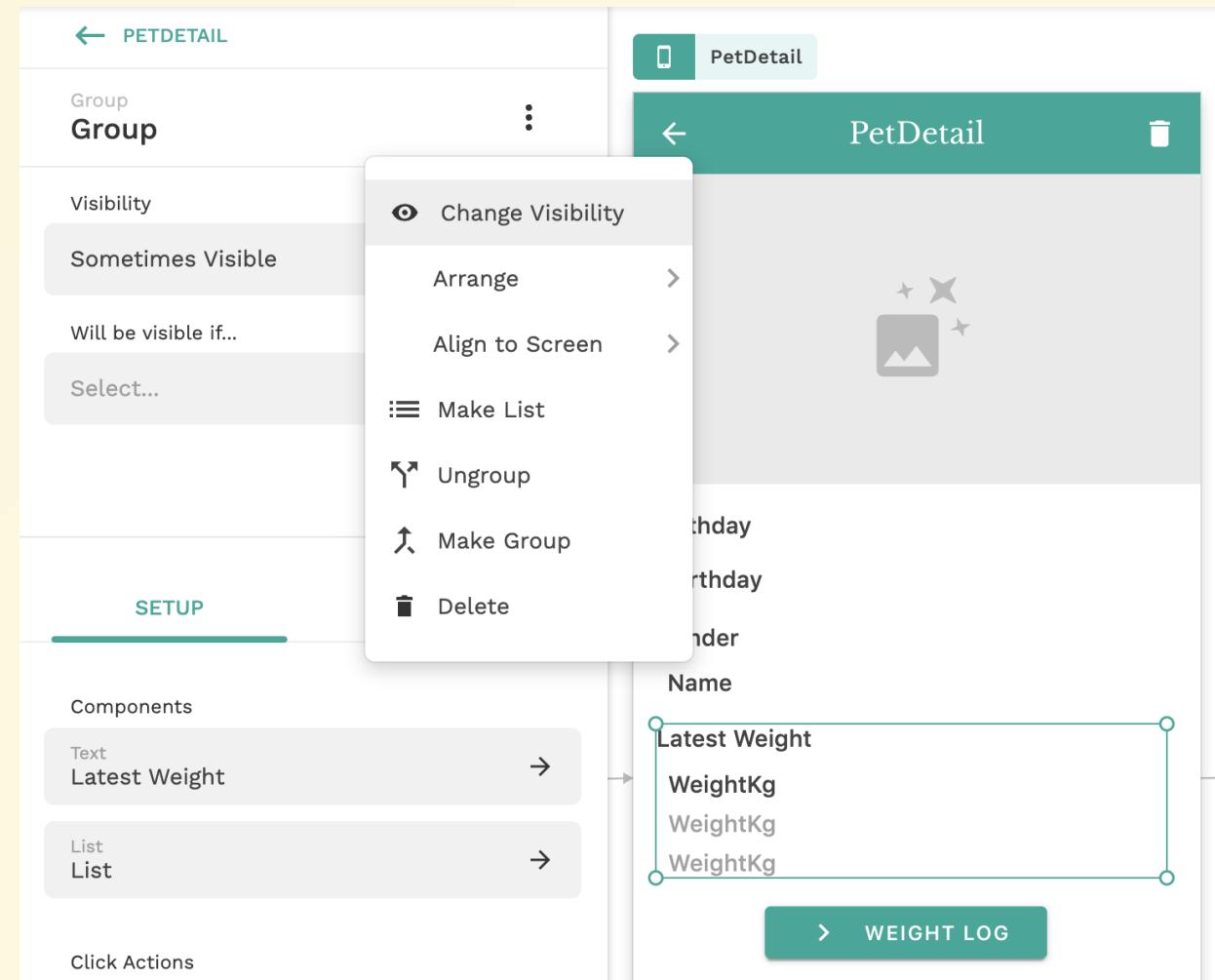
If the weight is not registered yet, hide the Latest Weight on the Pet Details screen.



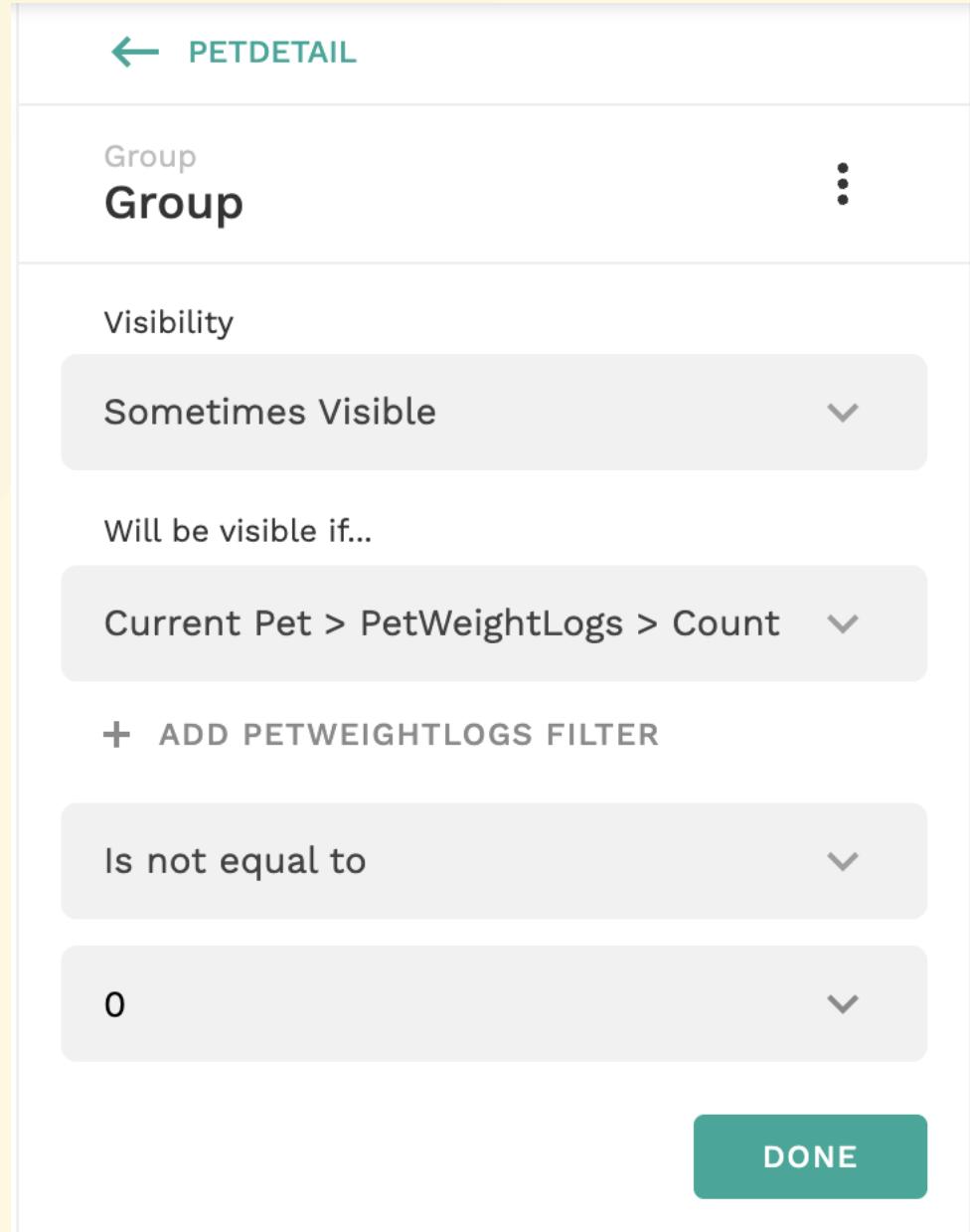
- Select the label Latest Weight and its value and make them group.



- Select Change Visibility

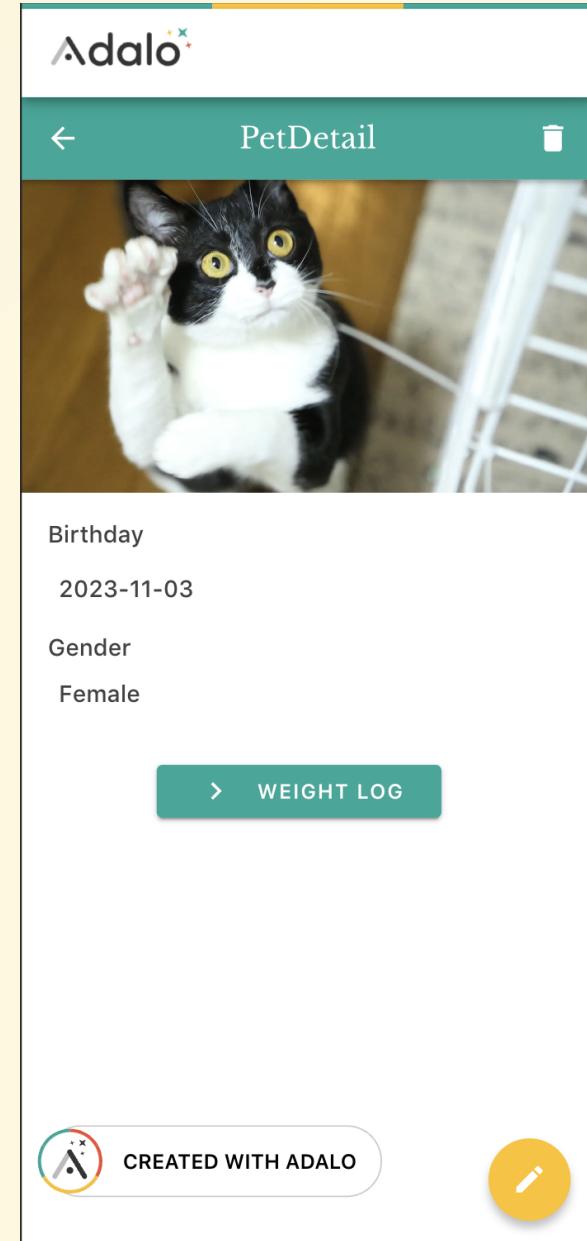


- Change Visibility to Sometimes Visible
- Will be visible if... Select Current Pet > PetWeightLogs > Count in
- Set Is not equal to 0



If you check with the Preview function, the Latest Weight is now hidden if the weight has not registered yet.

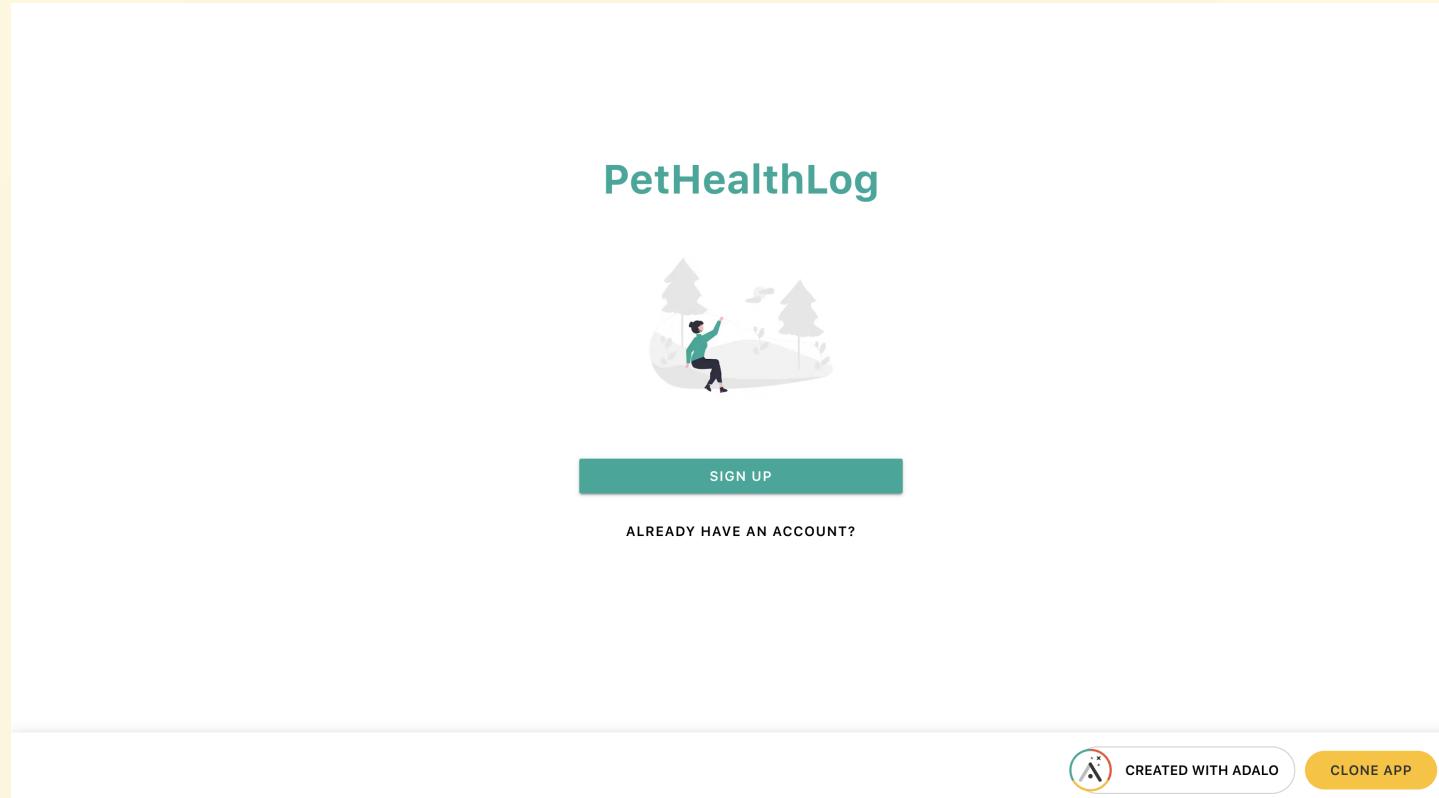
This is the end of the improvements to the sample application for now.



## クローン用URL

- You can clone the app I created by the CLONE APP button in the lower right corner of the following URL.

<https://ryo-imahashis-team-6.adalo.com/improvedpethealthlog>



# External integration

If there is something you can't achieve with Adalo alone, you may be able to do so by integration with an external service.

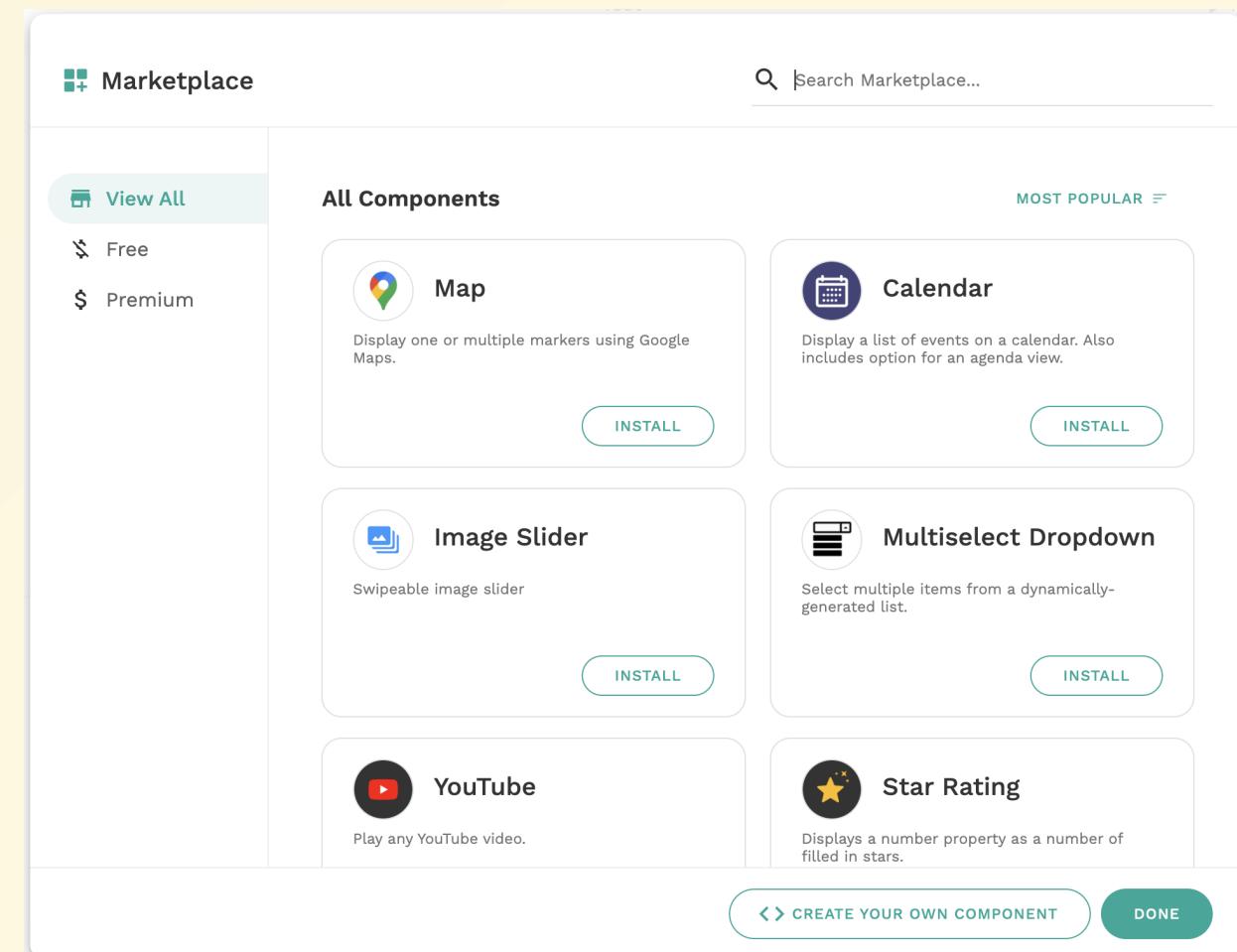
Let's check is how to do it.

I will introduce four types of external integration methods.

- Marketplace external integration components
- Custom Action
- External Collection
- Linked Services

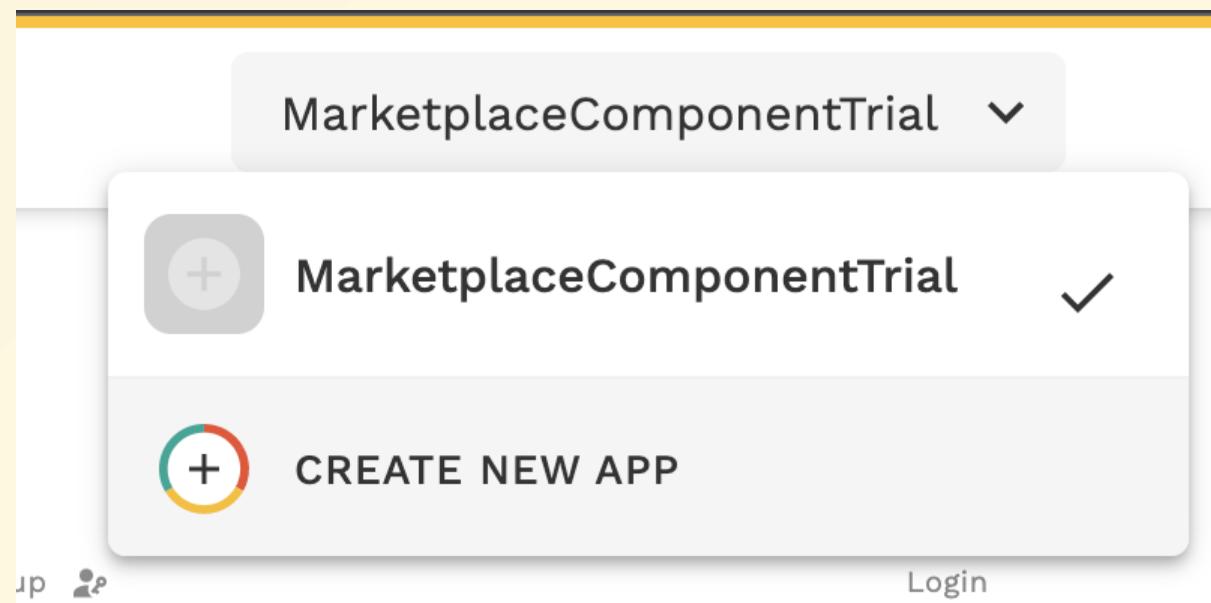
# Marketplace external integration components

You can add a component to enable external integration from Marketplace.



First, create a new application.

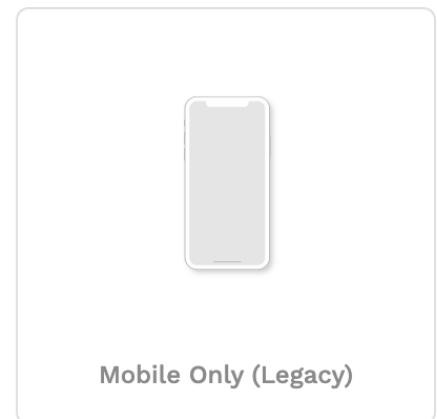
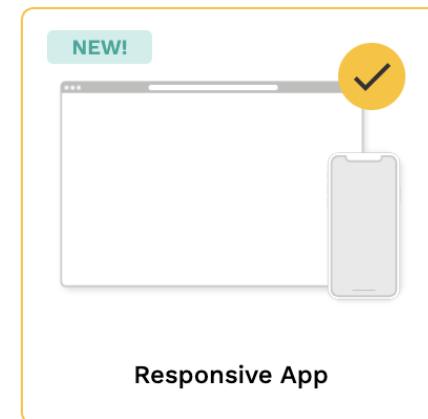
- Click CREATE NEW APP



- Select Responsive App for Platform

1 Platform ————— 2 Template ————— 3 Branding

What kind of app do you want to make?



NEX

- Select "Blank Mobile First" for Template.

1 Platform    2 Template    3 Branding

**Blank Desktop First**

**Blank Mobile First** Selected

**Learn Adalo**

**Todo List**

**Chat**

**Layout Tips & Tricks**

**BACK** **ADVANCED OPTIONS** **NEXT**

- Enter MarketplaceComponentTrial for App Name.
- Other items can be set as you like

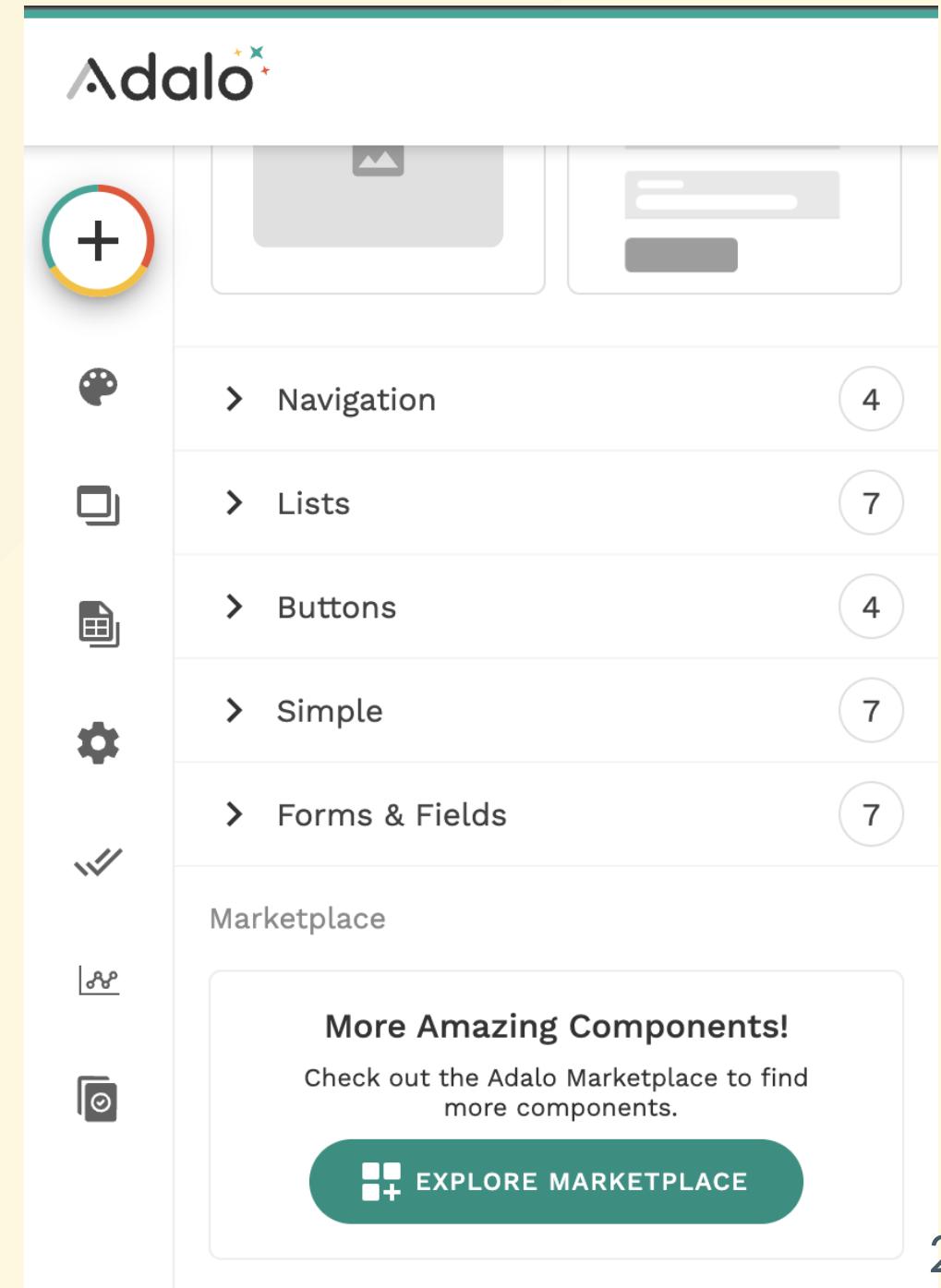
The screenshot shows the branding configuration screen for a mobile application. At the top, there are three status indicators: 'Platform' (green checkmark), 'Template' (green checkmark), and 'Branding' (green circle with the number '3'). Below these are several input fields and dropdown menus:

- App Name:** MarketplaceComponentTrial
- Who are the users of this app?**: Mostly me, I'm just testing
- Primary Color:** #00A898 (represented by a teal button)
- Secondary Color:** #FFC00E (represented by a yellow button)

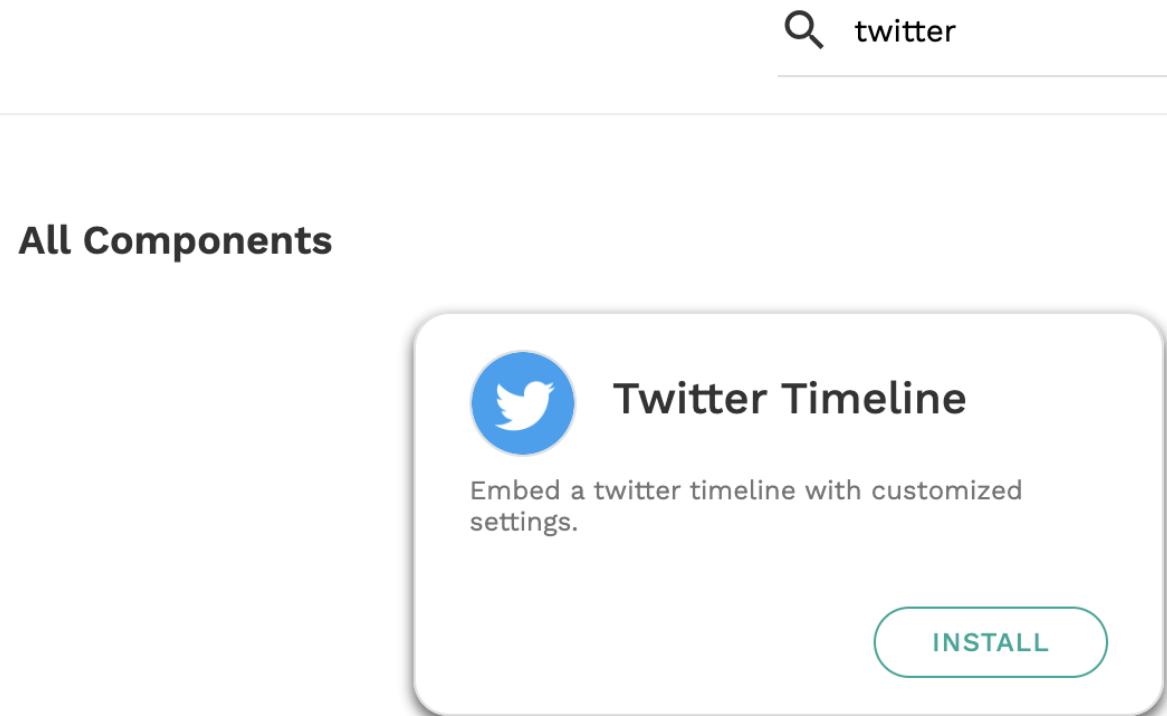
At the bottom left is a 'ACK' button, and at the bottom right is a large green 'CREATE' button.

# Twitter Timeline Component

- Click the + button and click Explore Marketplace in ADD COMPONENT

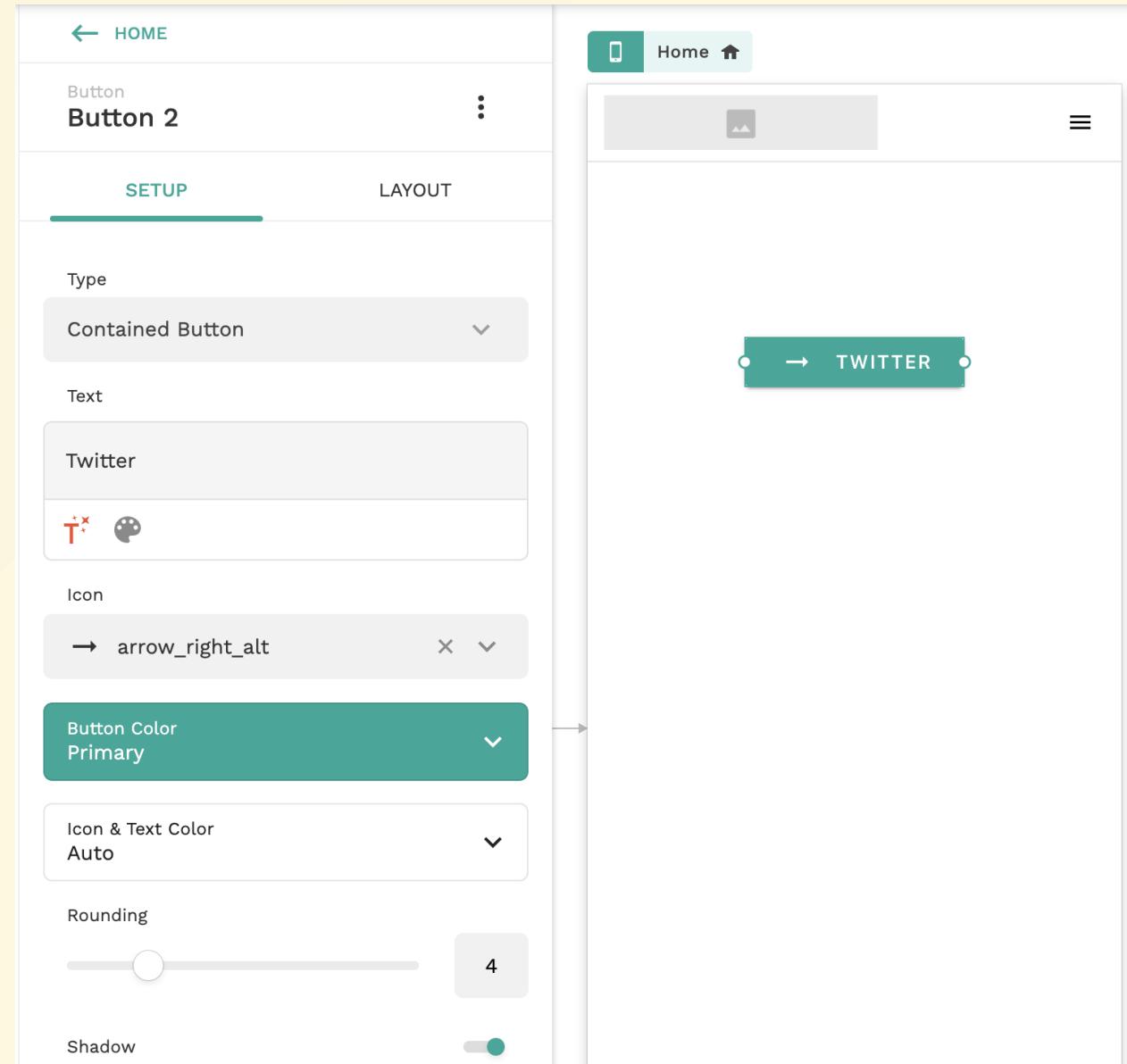


- INSTALL Twitter Timeline component

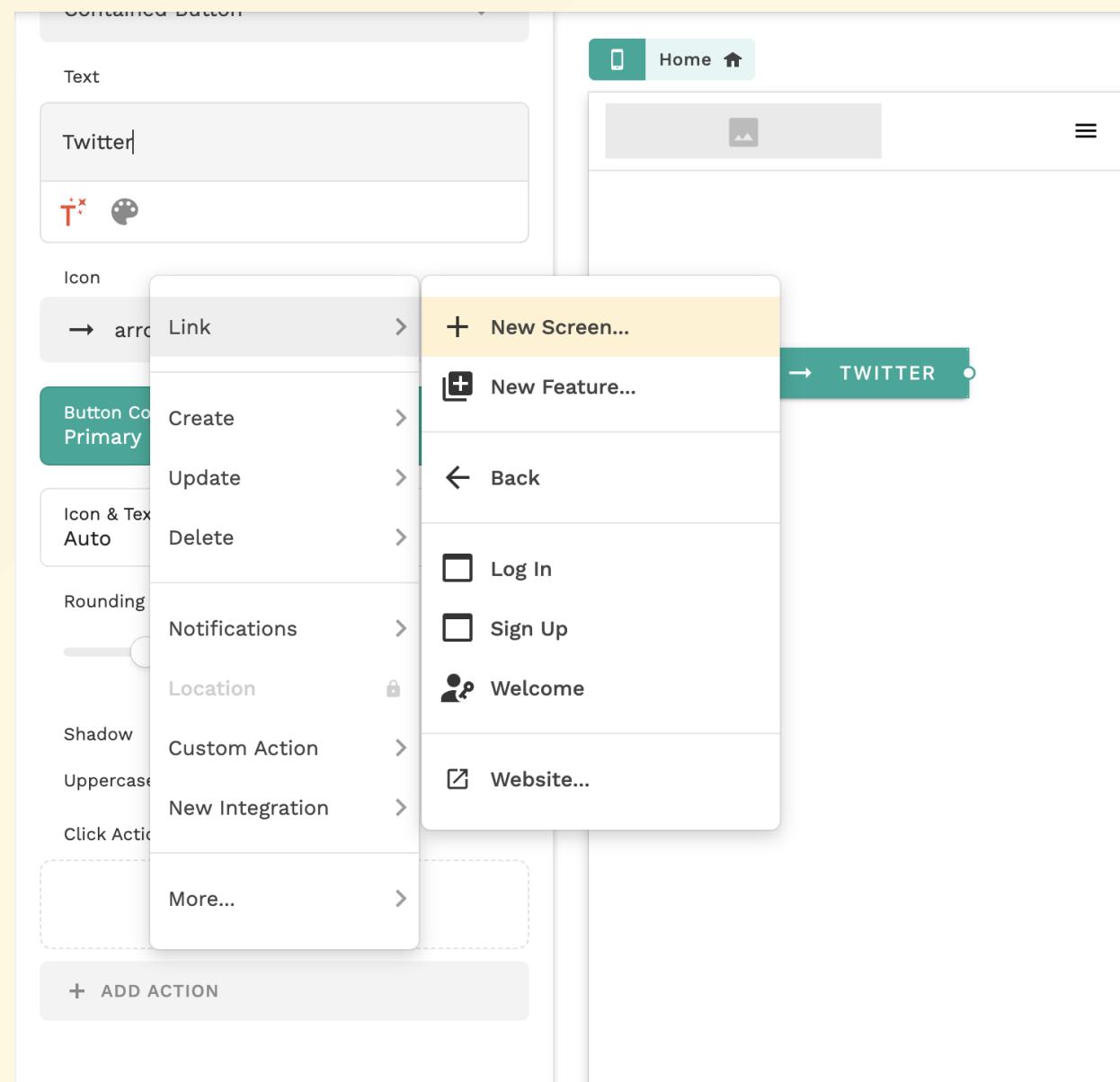


# Place the Twitter Timeline component.

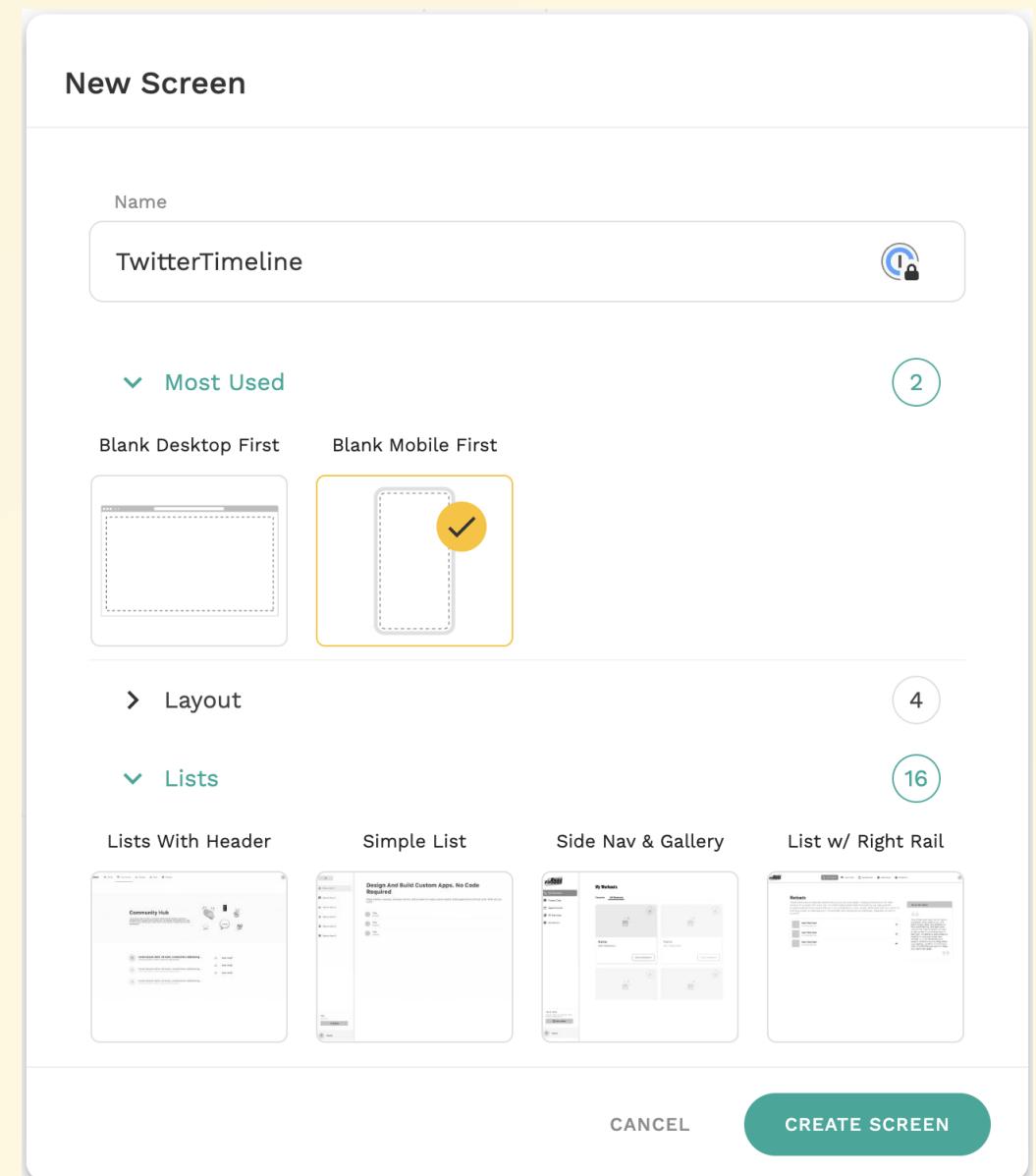
- Add Link button to Home Screen



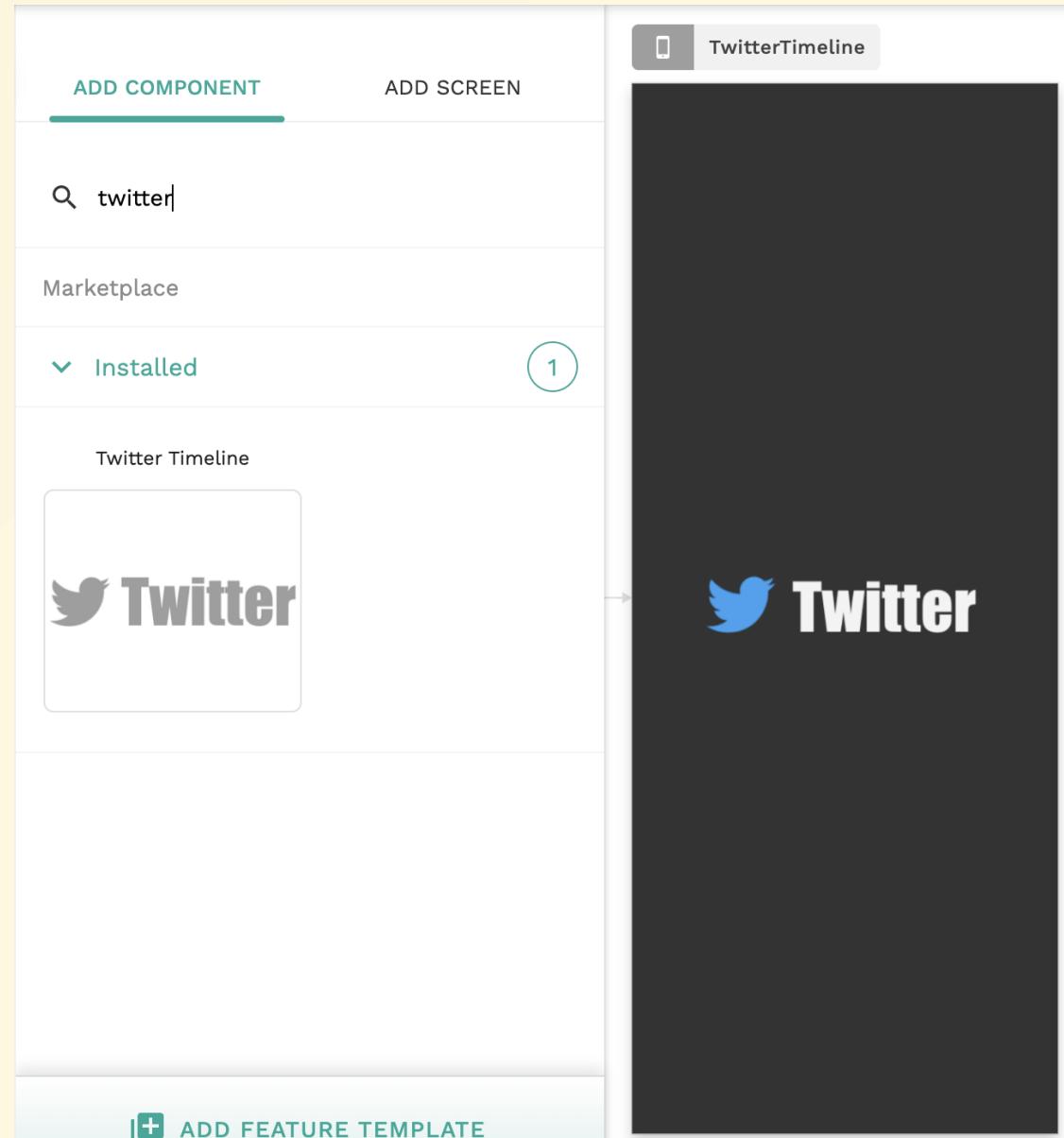
- Add Link to New Screen from ADD ACTION



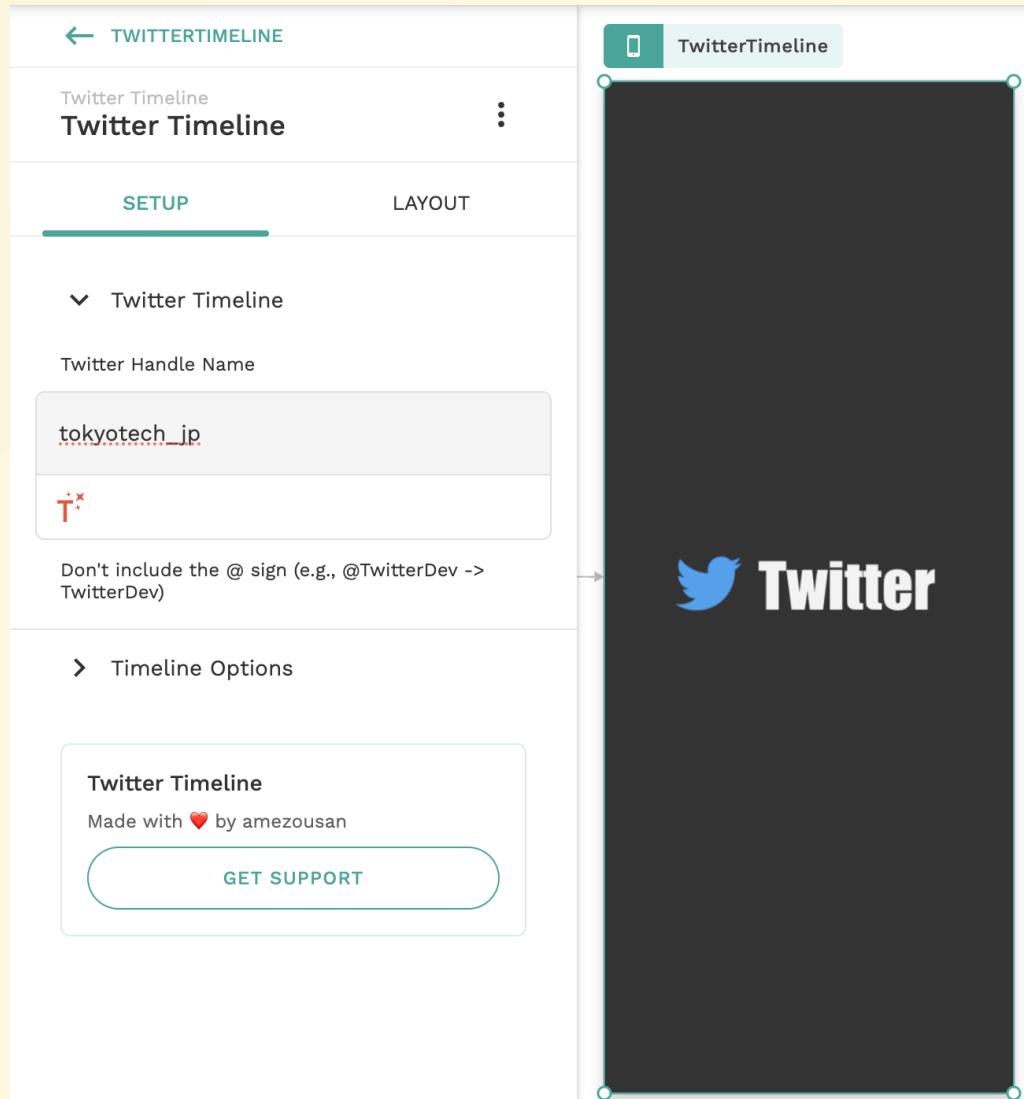
- Select Blank Mobile First and create TwitterTimeline screen



- Place Twitter Timeline component



- Enter "tokyotech\_jp" in the Twitter Handle Name field.
  - You can change the Handle Name to any Twitter account.



Signup with the Preview function and click the Twitter button in Home, the TwitterTimeline screen will display a list of posts from the Twitter account with the Handle Name you entered.

Adalo

Tweets from @tokyotech\_jp [Follow](#)

東京工業大学 @tokyotech\_jp · Oct 30 X  
2023年度末松賞「革新的価値創造の基礎と展開」を4人が受賞: 東京工業大学は、2023年度末松賞「革新的価値創造の基礎と展開」の受賞者を決定し、9月12日に授賞式を行いました。末松賞「革新的価値創造の基礎と展開」は、科学技術の各分野における「革新的価値創造」につ...



titech.ac.jp  
2023年度末松賞「革新的価値創造の基礎と展開」を4人が受賞

1 20

東京工業大学 @tokyotech\_jp · Oct 30 X  
東工大史資料館提供「今月の一枚」: エジプトに輸出された日本の高等教育システム [facebook.com/tokyotech.jp/p...](https://facebook.com/tokyotech.jp/p...)



CREATED WITH ADALO

Several other components are provided for integration with external services. If you are interested, try them out.

## Examples

- Youtube (free)
- Google Maps (requires credit card registration, but available in a free trial)

## Custom Action

Next, Let's learn how to handle data obtained from the API on the Adalo screen.

FYI

“ An application programming interface (API) is a way for two or more computer programs to communicate with each other. It is a type of software interface, offering a service to other pieces of software. ”

<https://en.wikipedia.org/wiki/API>

Let's try API integration.

We will use The Cat API, which you can try for free. Please access the following URL

<https://thecatapi.com/>

The screenshot shows the homepage of The Cat API. At the top, there is a navigation bar with links for PRICING, ABOUT, MORE APIs, DOCUMENTATION, and SHOWCASE. Below the navigation bar, the main title "The Cat API - Cats as a Service." is displayed, followed by the tagline "Because everyday is a Caturday." A brief description states: "A public service API all about Cats, free to use when making your fancy new App, Website or Service. [Get your license now.](#)" It also mentions that the API has delivered billions of requests to over 80K developers. Below this text, there are icons for various frameworks: React, jQuery, Vue.js, Node.js, and Angular. Two buttons at the bottom left are "GET YOUR API KEY" and "READ OUR GUIDES". A note at the bottom left indicates "free 10,000 requests / month". On the right side of the page, there is a large image of a cat's face with cherry blossoms in the background. Above the image is a black bar with buttons for "VOTE", "BREEDS", "IMAGES/SEARCH", "FAVOURITES", and "UPLOAD". Below the image are two buttons: "LOVE IT" (green) and "NOPE IT" (red).

FYI: For dog lovers, there is also The Dog API. It probably does the same thing as The Cat API. (I have not tried it, so I recommend using The Cat API first)

<https://www.thedogapi.com/>

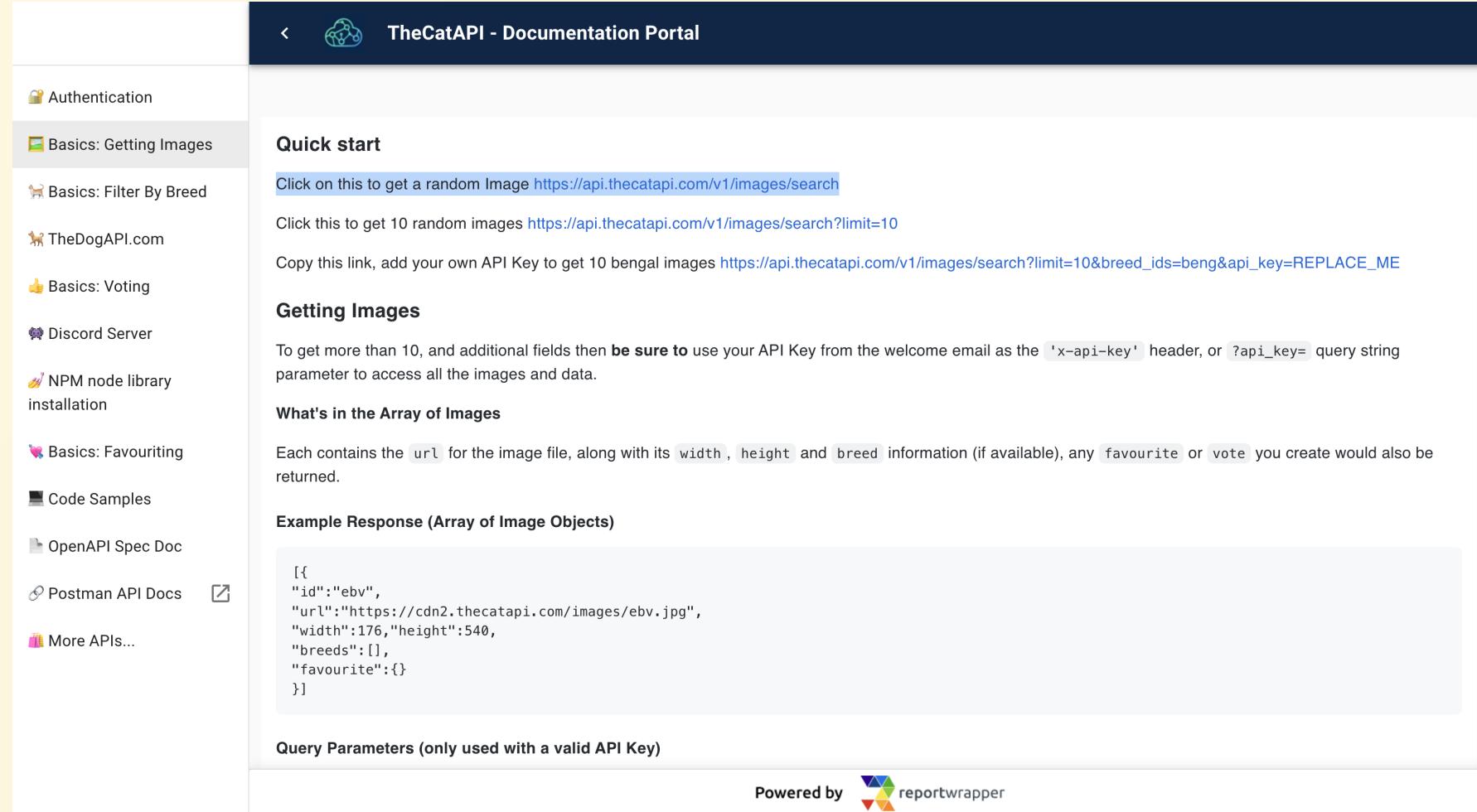
The screenshot shows the homepage of The Dog API. At the top, there's a blue navigation bar with links for PRICING, ABOUT, MORE APIs, DOCUMENTATION, and SHOWCASE. Below the header, the main title "The Dog API - Dogs as a Service" is displayed, followed by the tagline "Because everyday is a Dog Day." A brief description states: "A public service API all about Dogs, free to use when making your fancy new App, Website or Service. [Get your license now.](#)" It also mentions that the API has delivered billions of requests to over 30K developers. Below this text are logos for React, jQuery, Vue.js, Node.js, and Angular. Two prominent buttons are visible: a green "LOVE IT" button with a thumbs-up icon and a red "NOPE IT" button with a thumbs-down icon. To the right of these buttons is a photograph of two dogs, one grey and one white, standing in a grassy field. At the bottom left, there are buttons for "GET YOUR API KEY" and "READ OUR GUIDES". A small note at the bottom left indicates "free 10,000 requests / month".

Check the API documentation to see how to use the API.

- Go to the following URL

<https://docs.thecatapi.com/>

Use the API to get a random kitten image listed on the top page.  
<https://api.thecatapi.com/v1/images/search>



The screenshot shows the 'TheCatAPI - Documentation Portal' with the 'Images' section selected. The left sidebar lists various documentation links. The main content area includes sections for 'Quick start', 'Getting Images', 'What's in the Array of Images', and 'Example Response (Array of Image Objects)'. It also lists 'Query Parameters (only used with a valid API Key)'.

**Quick start**

Click on this to get a random Image <https://api.thecatapi.com/v1/images/search>

Click this to get 10 random images <https://api.thecatapi.com/v1/images/search?limit=10>

Copy this link, add your own API Key to get 10 bengal images [https://api.thecatapi.com/v1/images/search?limit=10&breed\\_ids=beng&api\\_key=REPLACE\\_ME](https://api.thecatapi.com/v1/images/search?limit=10&breed_ids=beng&api_key=REPLACE_ME)

**Getting Images**

To get more than 10, and additional fields then **be sure to** use your API Key from the welcome email as the `'x-api-key'` header, or `?api_key=` query string parameter to access all the images and data.

**What's in the Array of Images**

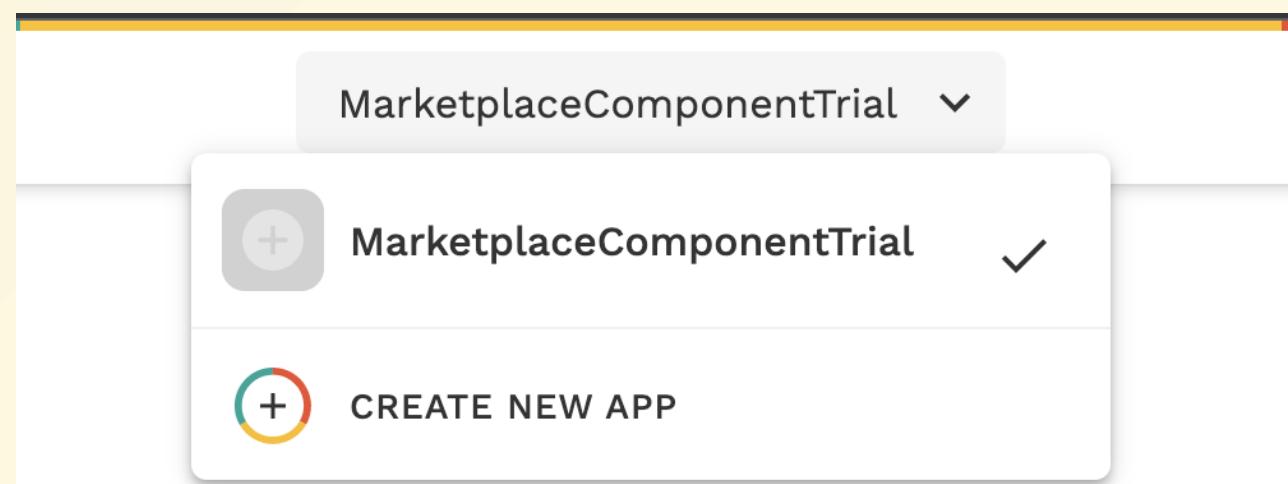
Each contains the `url` for the image file, along with its `width`, `height` and `breed` information (if available), any `favourite` or `vote` you create would also be returned.

**Example Response (Array of Image Objects)**

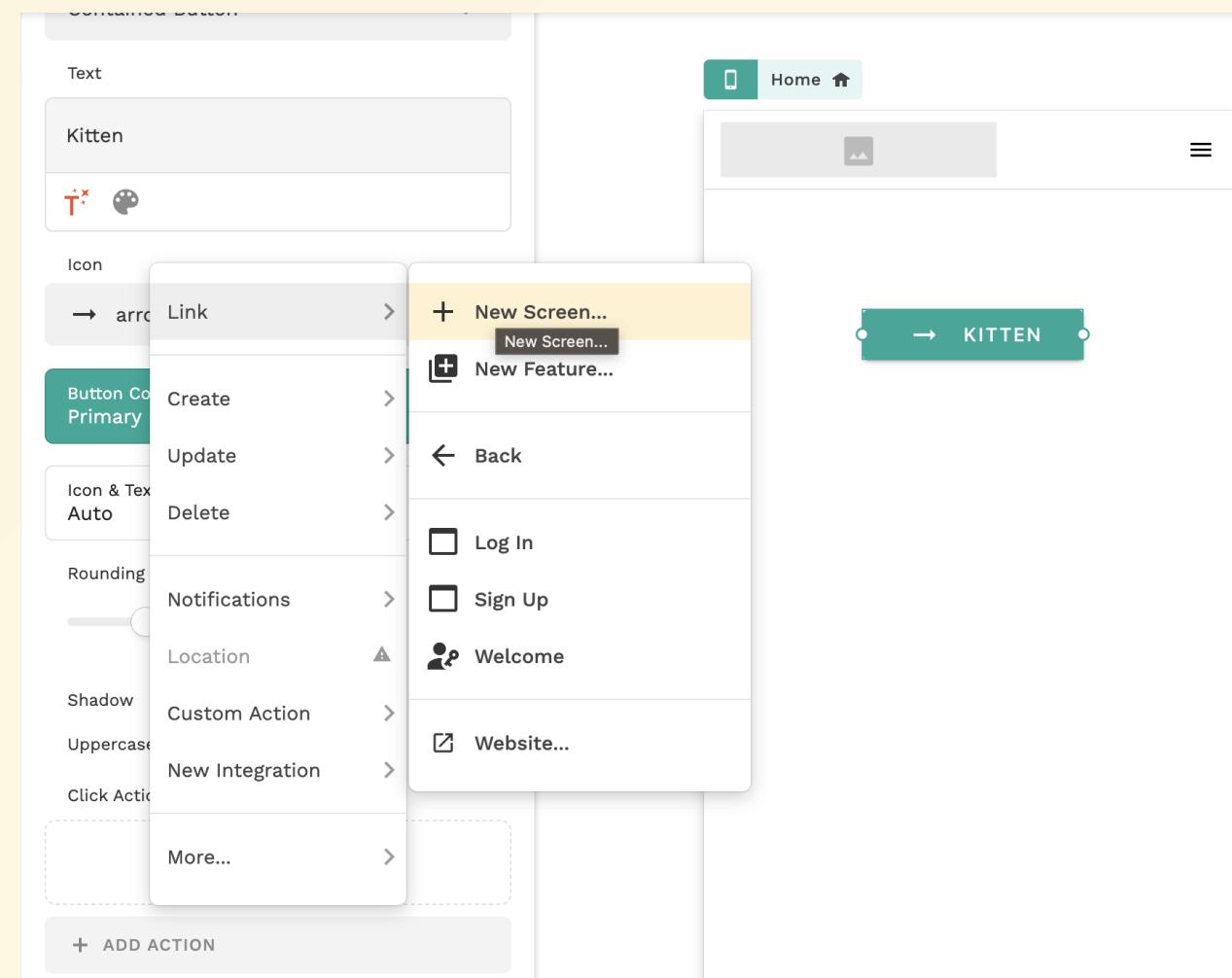
```
[{"id": "ebv", "url": "https://cdn2.thecatapi.com/images/ebv.jpg", "width": 176, "height": 540, "breeds": [], "favourite": {}}]
```

**Query Parameters (only used with a valid API Key)**

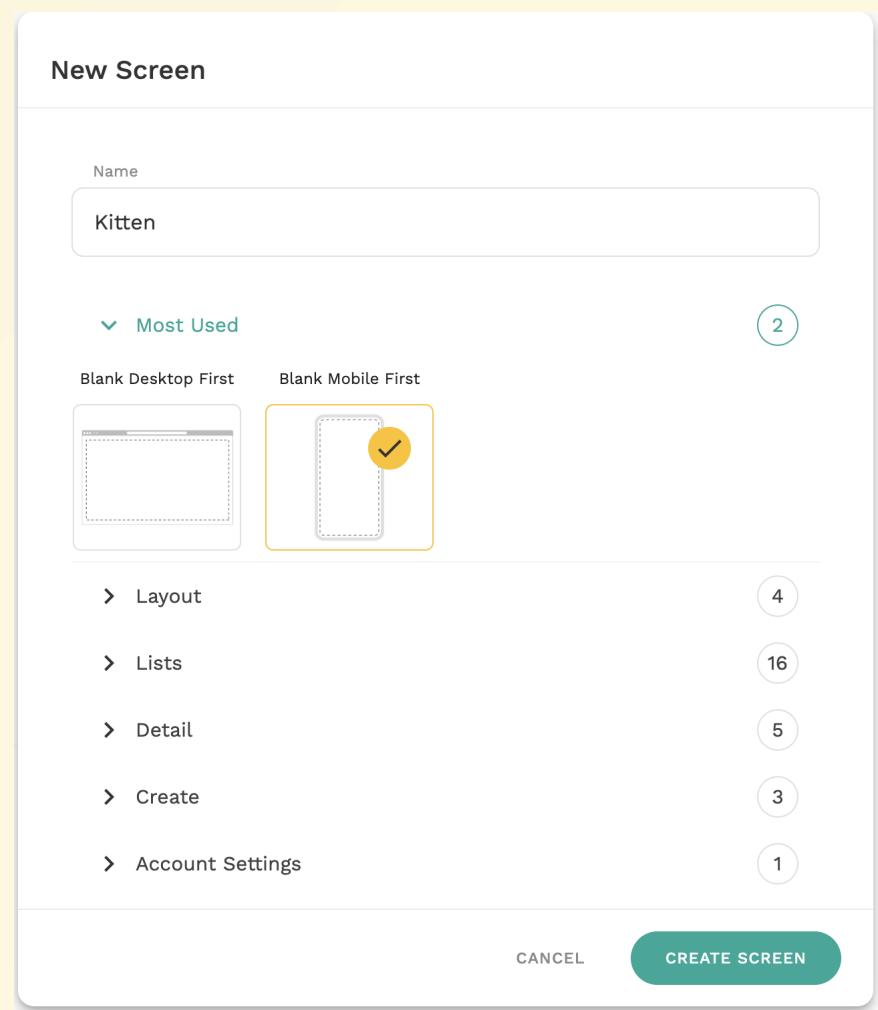
- CREATE NEW APP in the Adalo admin page
- Settings are as follows
  - Platform: Responsive App
  - Template: Blank Mobile First
  - App Name: ApilntegrationTrial



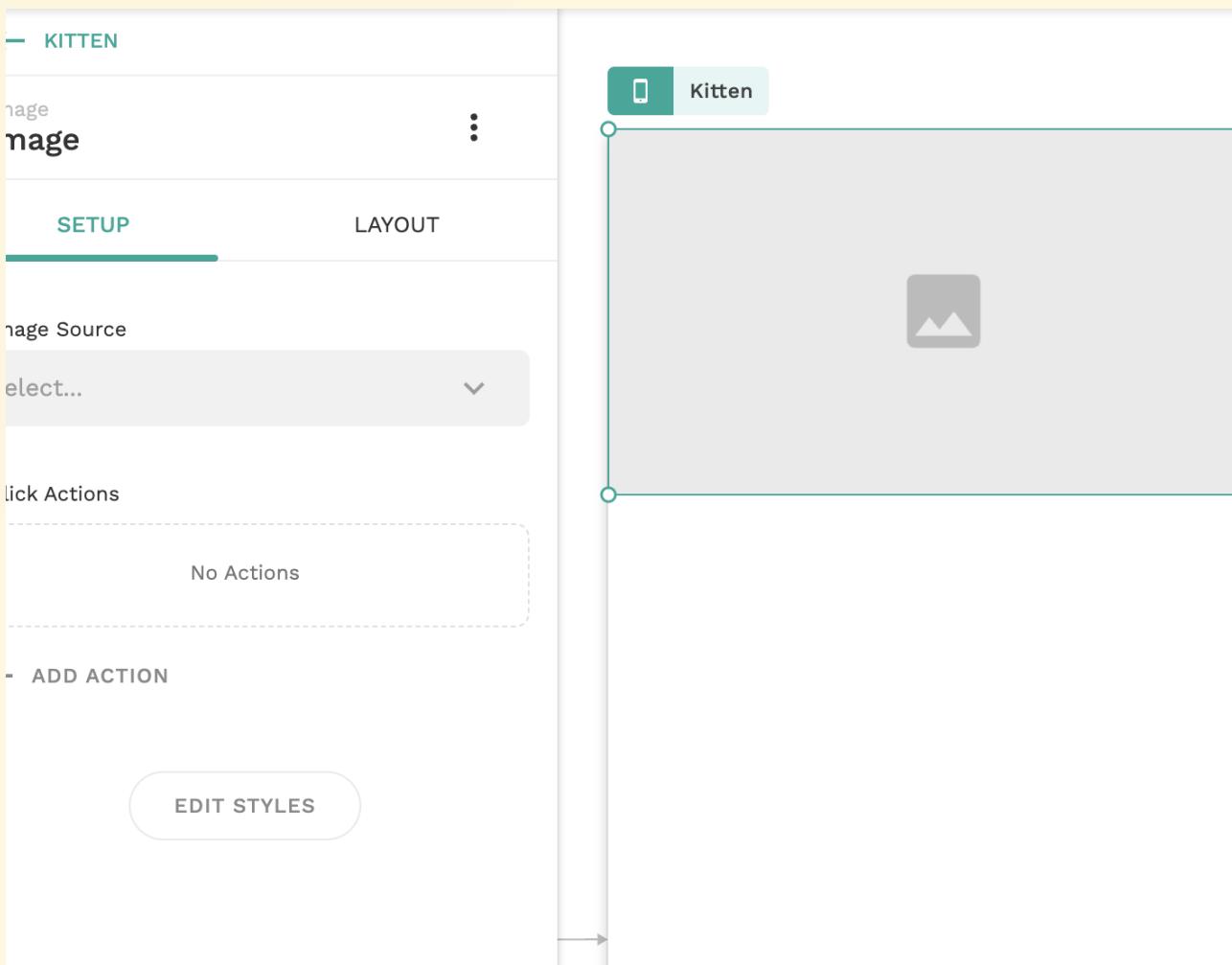
- Add link button to kitten image display screen on Home screen
- Set Link to New Screen from ADD ACTION



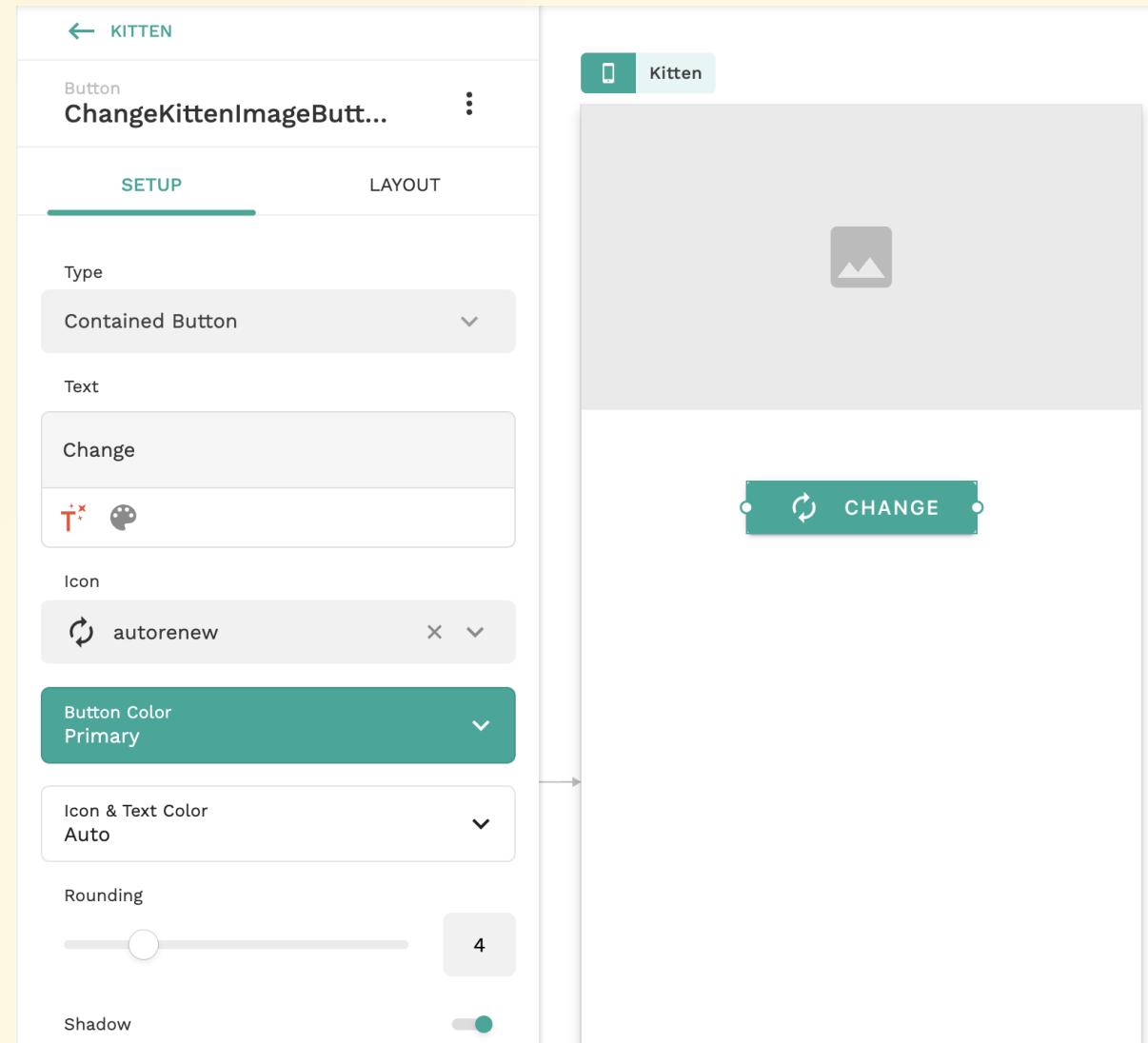
- Select Blank Mobile First as Template and create Kitten screen



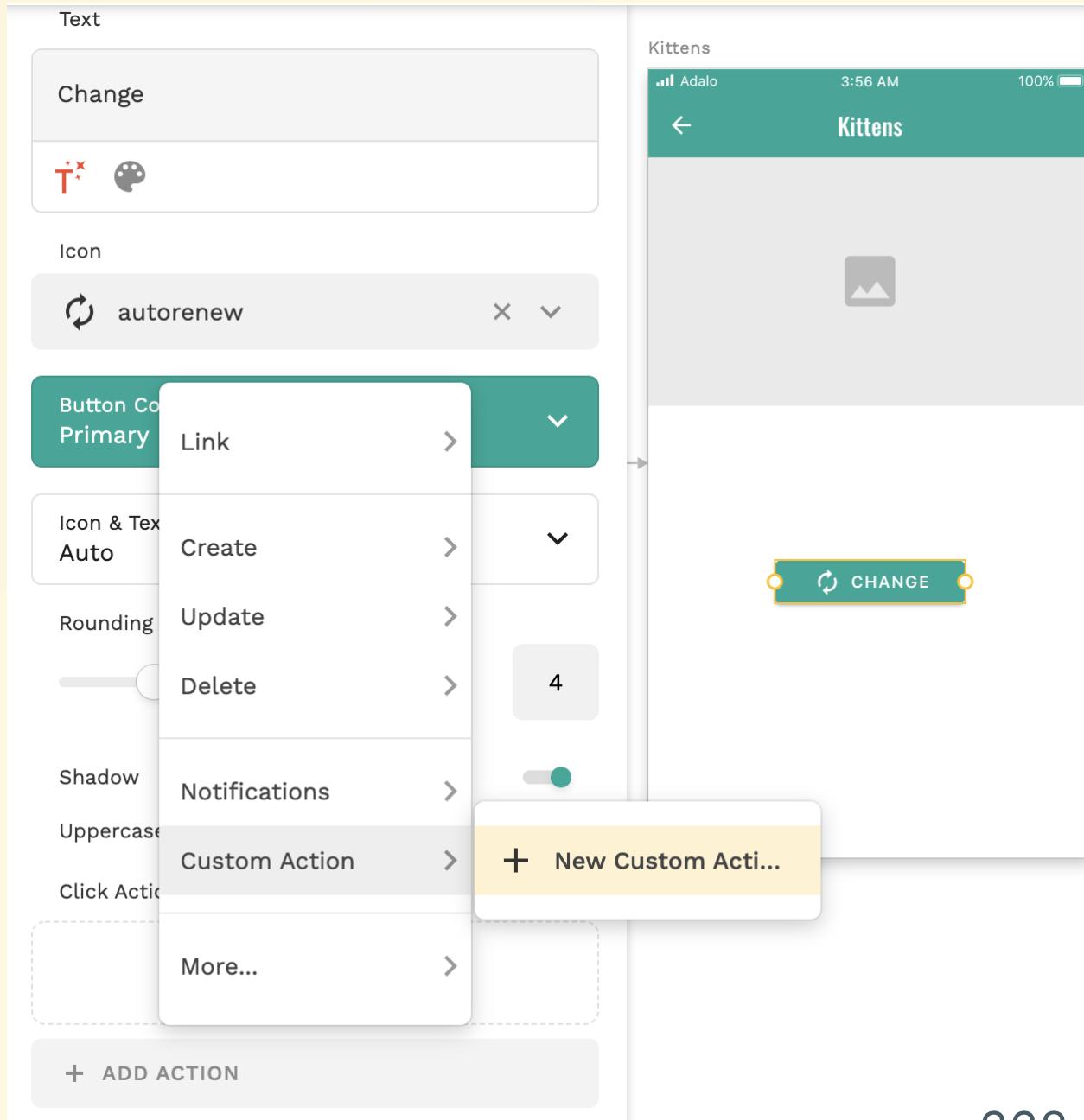
- Place the Image component on the screen
- Leave the component settings as they are (we will set them later)



- Add Change Kitten Image Button



- Select New Custom Action from ADD ACTION



You will be prompted to start a 14-day free trial (free of charge).

- Click "START FREE TRIAL."

**Unlock Premium Features for 14 Days with a Free Trial**

Begin your 14-Day Free trial today & experience premium features including Custom Fonts, External Collections, Custom Actions, Versions, Geolocation & more!

[LEARN MORE](#)

**External Collections**

Connect & use the data you already have inside your Adalo-made app.

[LEARN MORE](#)

**Geolocation** NEW

Utilize this popular feature to access your users' locations to customize their experience.

[LEARN MORE](#)

**Design Versions** NEW

Make changes, save designs, and restore versions with this feature.

[LEARN MORE](#)

**Collections API**

Make your Collection data accessible through your app's very own custom API.

[LEARN MORE](#)

**Custom Actions**

Trigger unique actions to extend the functionality available in your app.

[LEARN MORE](#)

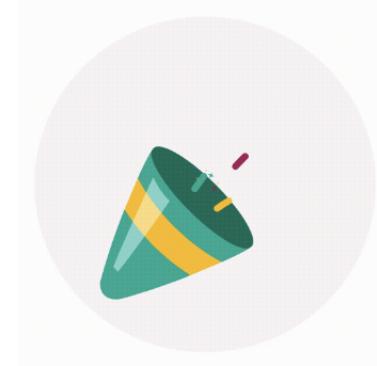
**Google Fonts**

Access over 1000 custom fonts perfect for customizing the look & feel of your app.

[NOT RIGHT NOW](#) [START FREE TRIAL](#)

Trial has started.

- Click "CREATE NEW CUSTOM ACTION"



**Enjoy External Collections for the next 14 days!**

Don't forget, until November 16th 2023, you have unlimited access to all these great features: External Collections, Custom Actions, Design Versions, Geolocation, Custom Fonts, & Collections API.

DONE

CREATE NEW CUSTOM ACTION

- Enter the following and click NEXT
  - Name: GetRandomKitten
  - Type: Create

The screenshot shows a user interface for creating a new item. It consists of three numbered steps: 1. Name & Type, 2. API Request, and 3. Outputs. Step 1 is highlighted with a yellow circle and labeled 'Name & Type'. The 'Name' field contains 'GetRandomKitten' and the 'Type' dropdown menu is open, showing 'Create' as the selected option. At the bottom right are 'CANCEL' and 'NEXT' buttons, with 'NEXT' being highlighted in a yellow rounded rectangle.

1 Name & Type ————— 2 API Request ————— 3 Outputs

Name  
GetRandomKitten

Type  
Create

CANCEL      NEXT

- Set the API Request as follows
  - API Base URL:  
<https://api.thecatapi.com/v1/images/search>
  - Method: GET
- After setting, click RUN TEST REQUEST

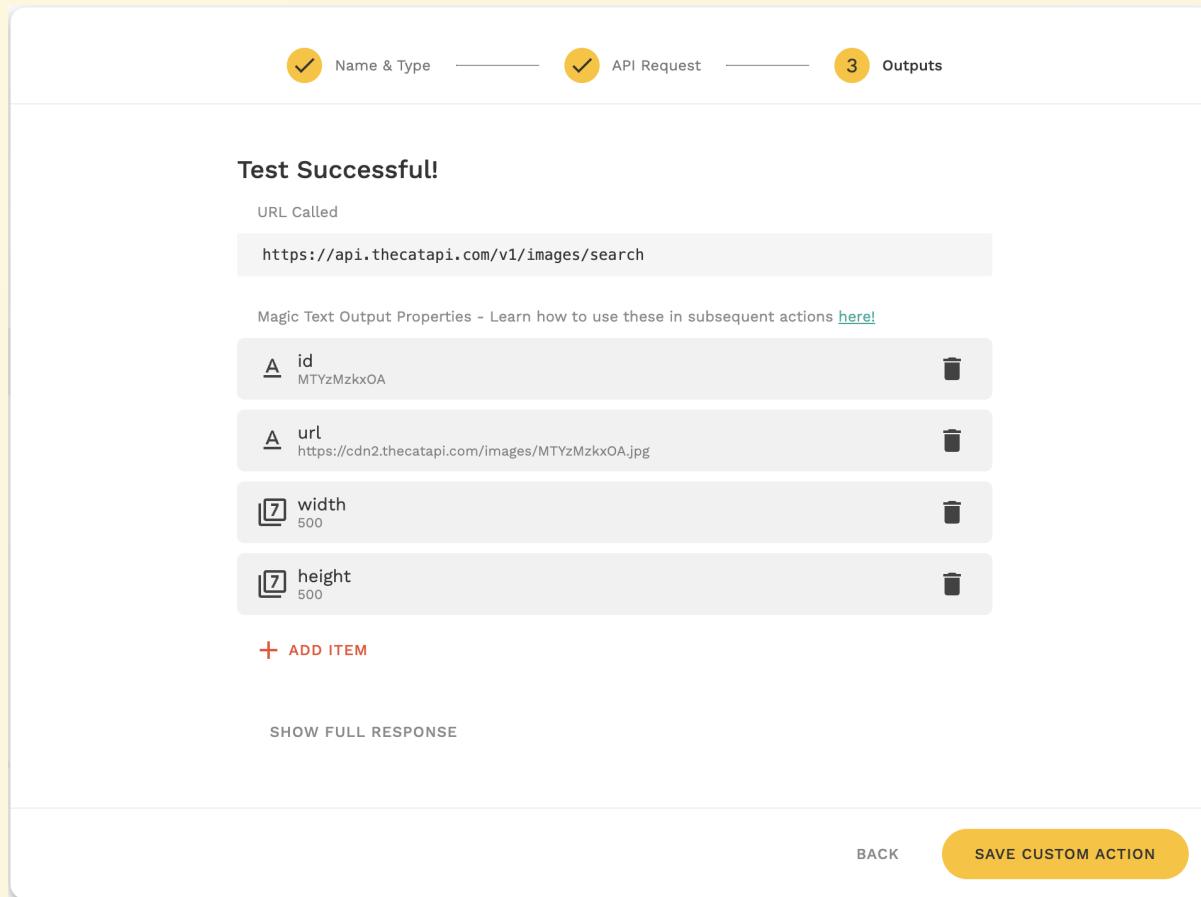
The screenshot shows a user interface for configuring an API request. At the top, there are three tabs: 'Name & Type' (highlighted with a yellow circle and checkmark), 'API Request' (with a yellow circle and number 2), and 'Outputs' (with a grey circle and number 3).  
  
The 'API Request' section contains the following fields:

- API Base URL:** https://api.thecatapi.com/v1/images/search
- Method:** GET
- Headers & Queries:** No Auth Parameters
- Body:** Enter JSON here

  
On the right side, there is an 'Inputs' section with a dashed box labeled 'No Inputs' and a red '+ ADD ITEM' button.  
  
At the bottom right of the main area, there is a yellow button labeled 'RUN TEST REQUEST'. Below it are 'BACK' and 'RUN TEST REQUEST' buttons.

If the Test is successful, the data from the API will be displayed. These can be used in subsequent actions.

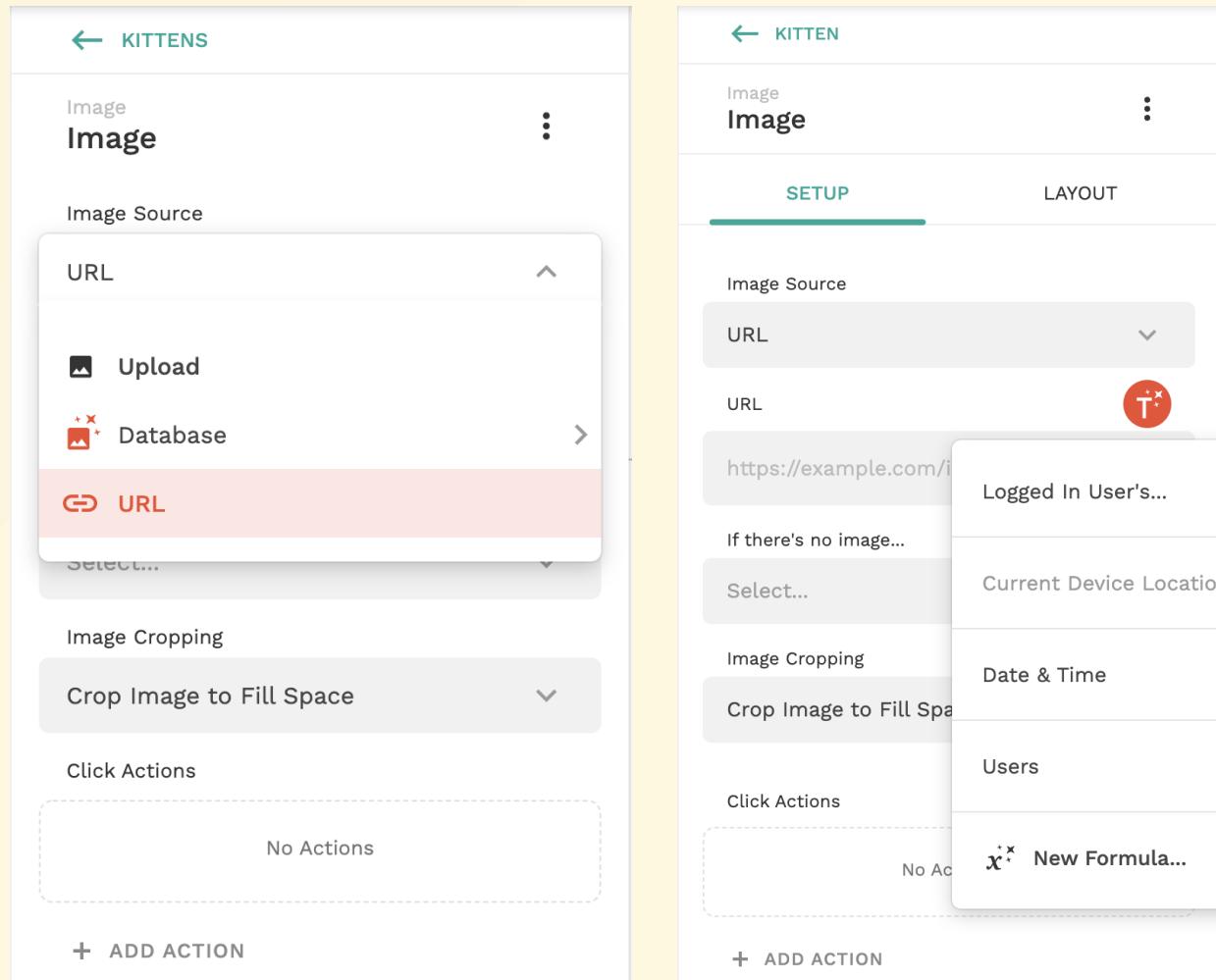
- Click SAVE CUSTOM ACTION.



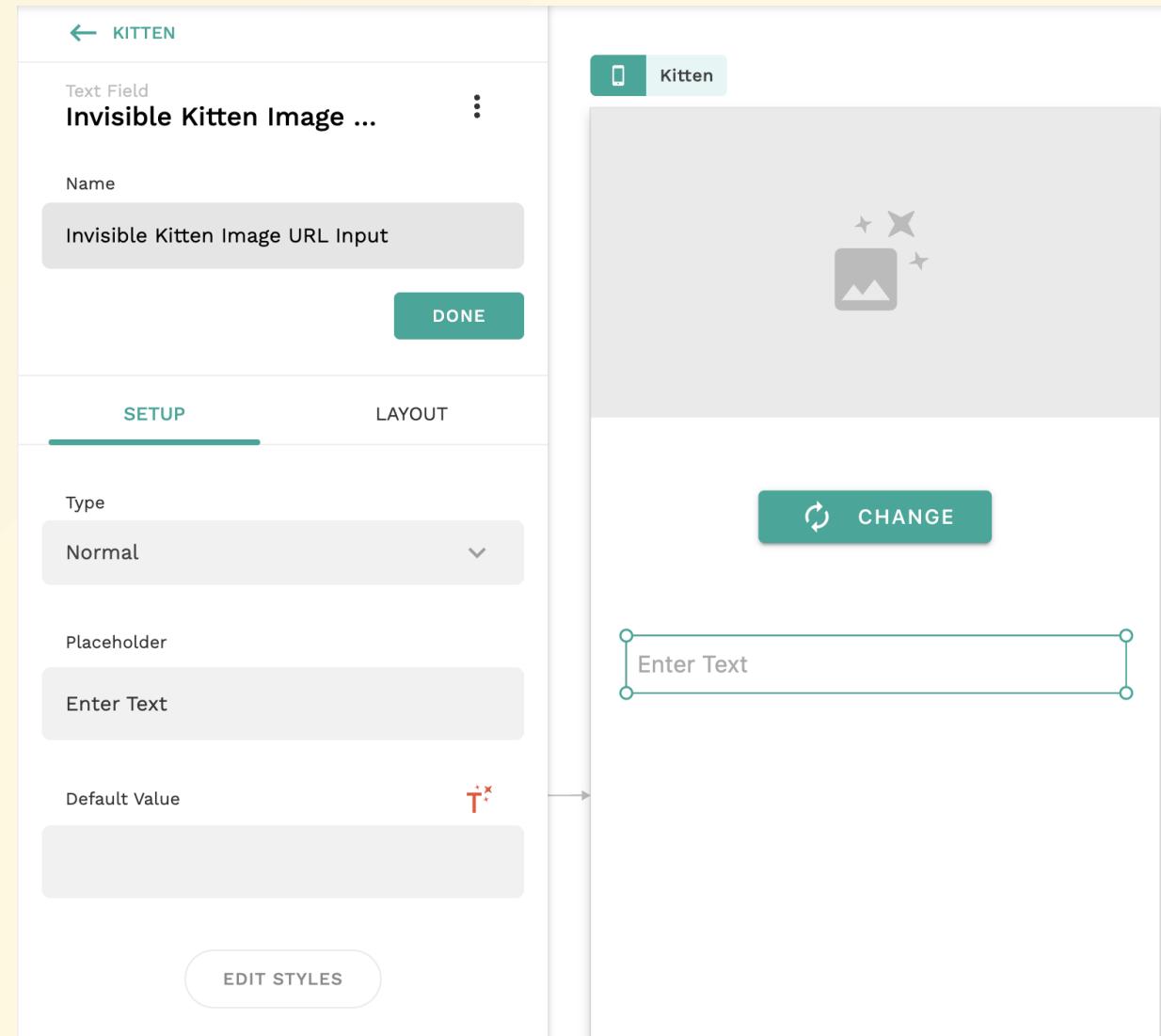
Next, set the URL of the kitten image obtained from the API to the Image Source of the Image component.

The data from the API does not appear in the choices...

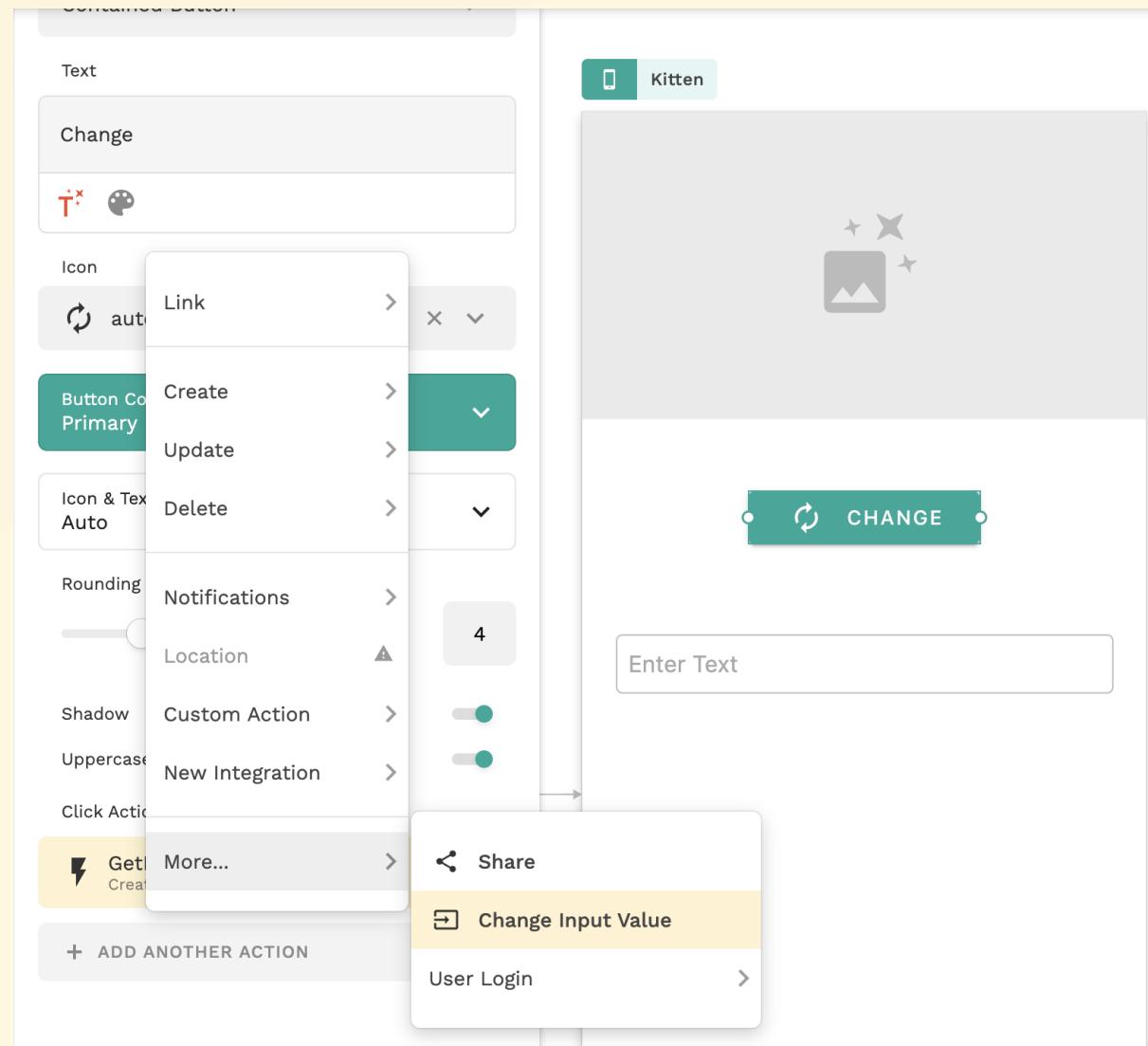
A url  
<https://cdn2.thecatapi.com/images/6k7.jpg>



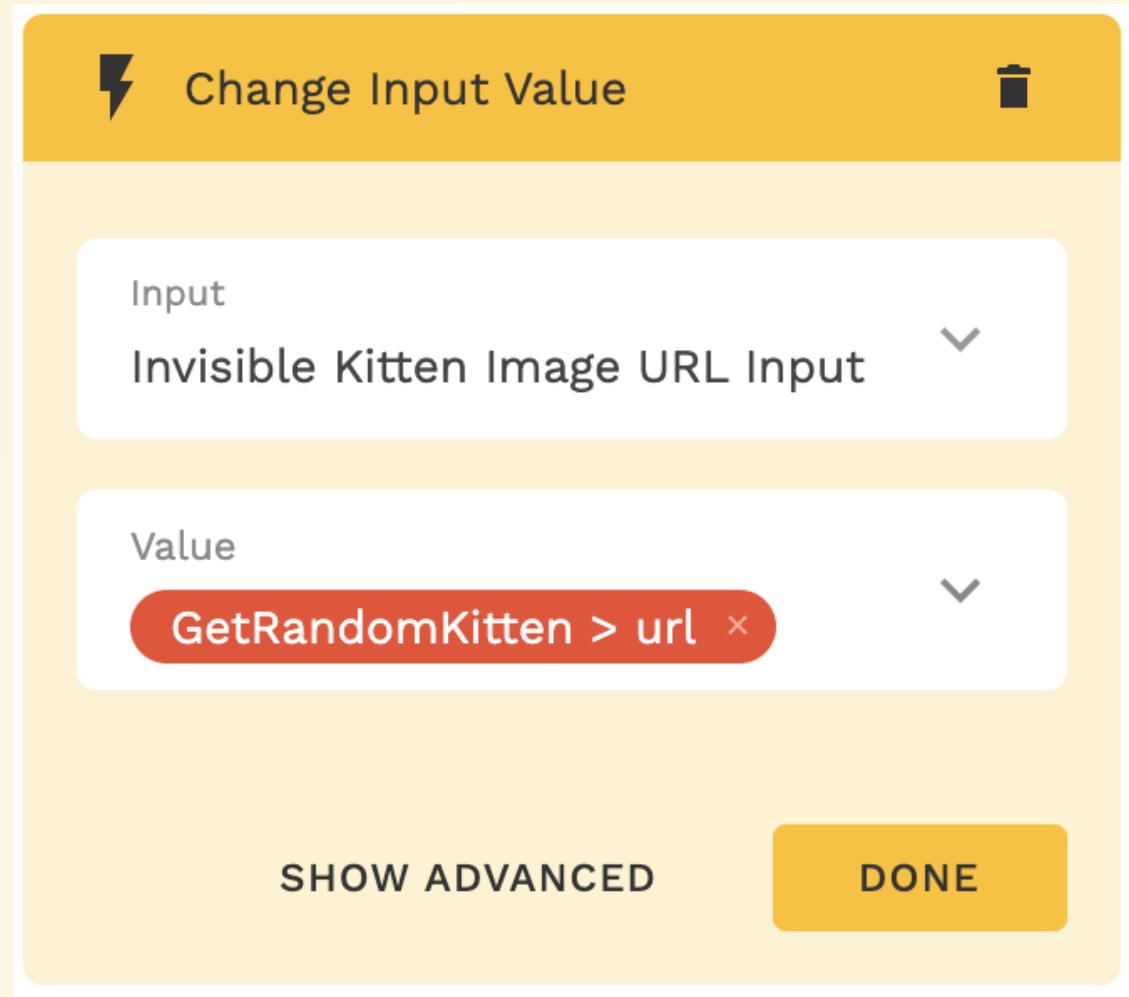
- Add Text Input component on the screen
- Change Name to "Invisible Kitten Image URL Input"



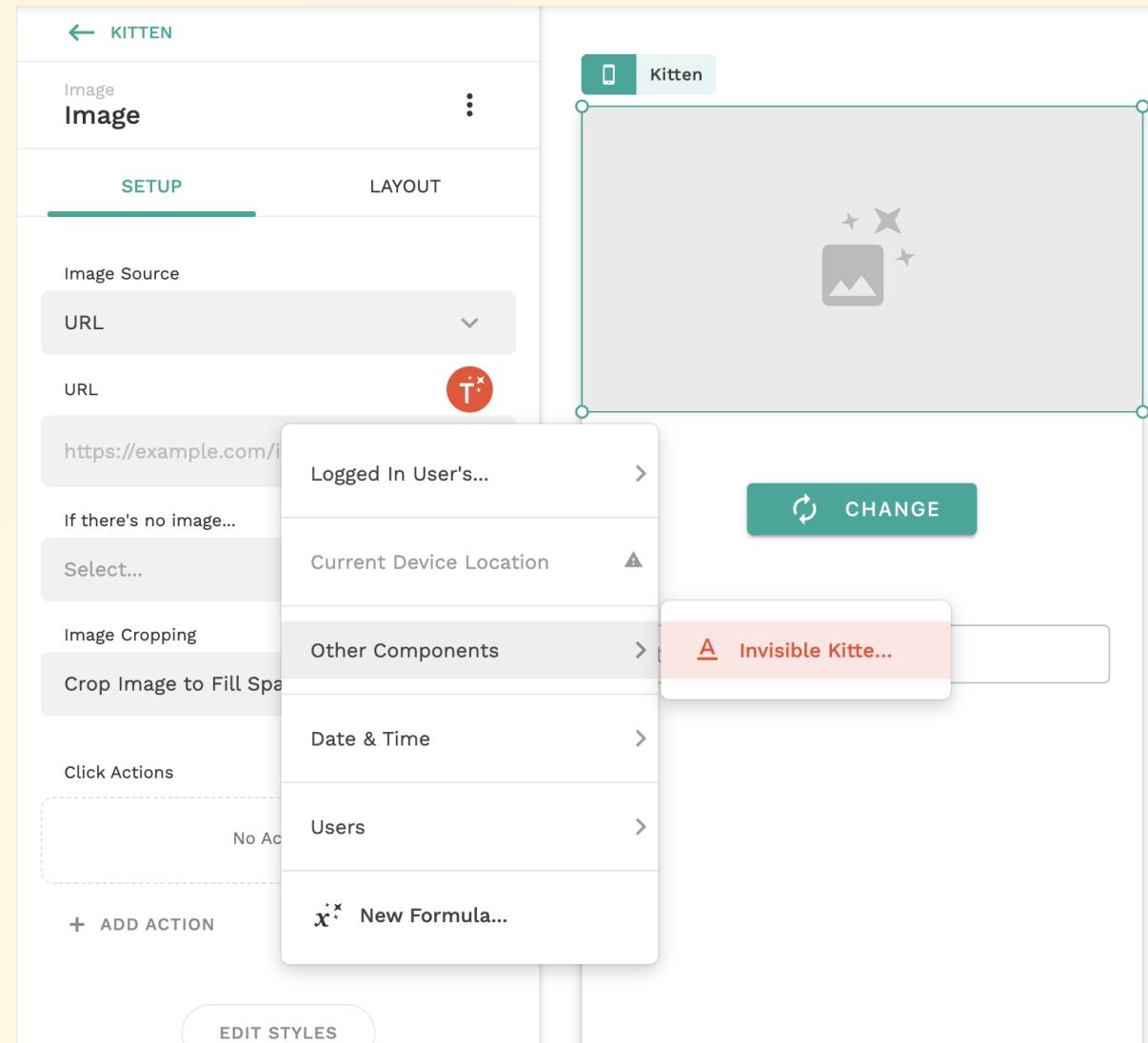
- Click "Change Kitten Image Button".
- Select More > Change Input Value from ADD ANOTHER ACTION



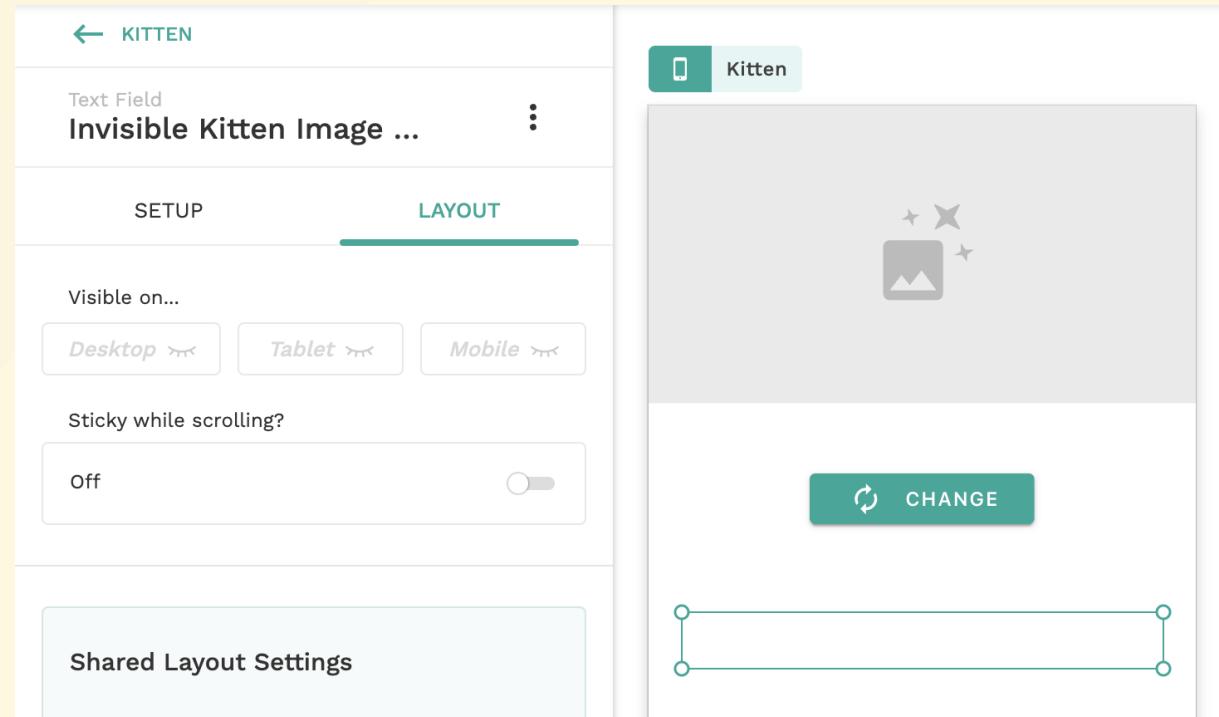
- Set "Invisible Kitten Image URL Input" for Input
- Set "GetRandomKitten > url" for Value
- Click "DONE"



- Click on Image component
- Set URL to Other Components > Invisible Kitten Image URL Input

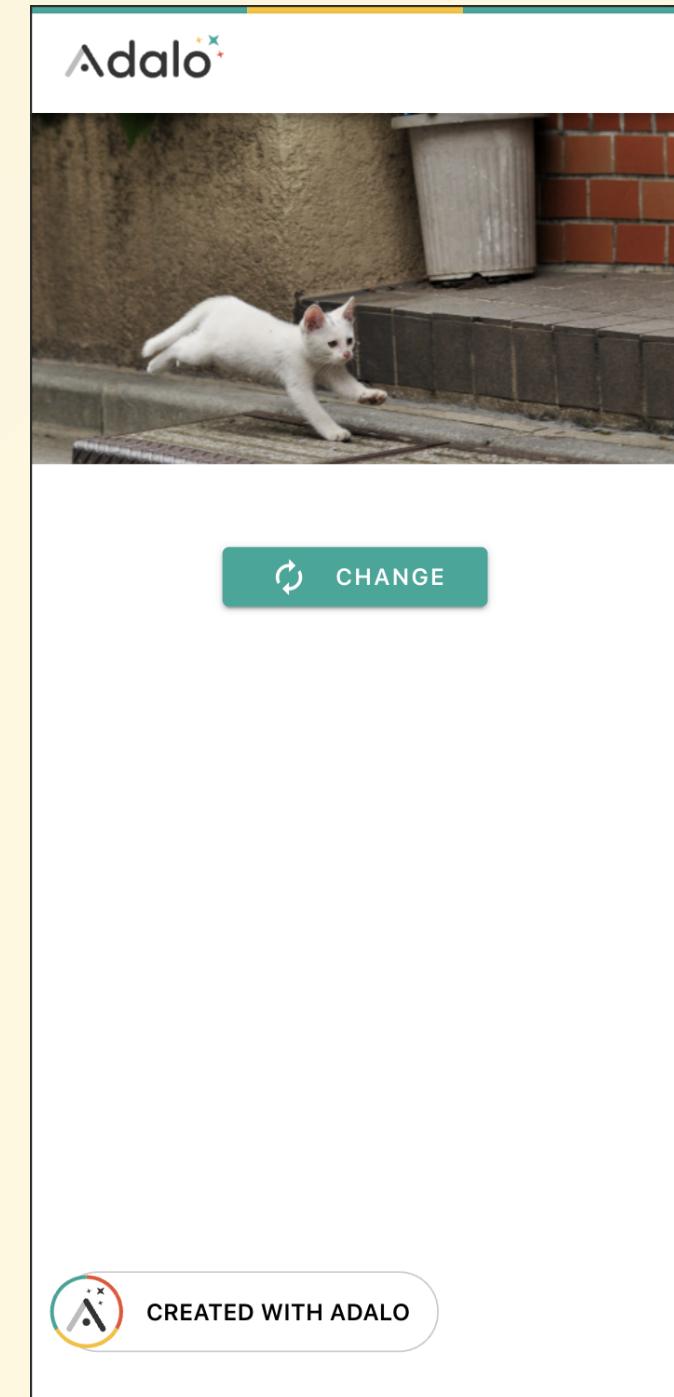


- Open the LAYOUT tab of "Invisible Kitten Image URL Input" and click three eye icons in Visible On...



Check with the Preview function.

Click the CHANGE button to see the kitten image.



## FYI

- Data obtained from the API in a Custom Action can be used in subsequent Actions. If you want to use that data in a component, use one of the following methods.
  - Set the data to the value of Text Input on the same screen in the subsequent Action's Change Input Value, as in this case, and load it.
  - Or, you can save the data to a database in a subsequent Action and load it from another component.
    - Example: <https://help.adalo.com/integrations/custom-actions>

## Caution

Currently, Custom Action has some limitations.

- Custom Action does not work with the Submit button of the Form component.
- If a Custom Action is used as an Action for an entire screen, the data retrieved as an API response cannot be used in subsequent Actions.
- Cloning the app does not copy Custom Action. If you clone the app containing the Custom Action, you must re-create it manually.

## External Collection

This section introduces how to handle data acquired from the API as a collection in Adalo.

If you want to acquire multiple data at once and list them on the screen, use External Collection instead of Custom Action.

Add "?limit=10" to the end of the previous API to get 10 cat images.

<https://api.thecatapi.com/v1/images/search?limit=10>

The screenshot shows the 'TheCatAPI - Documentation Portal' website. The left sidebar has a dark background with various links: 'Authentication', 'Basics: Getting Images' (which is highlighted in light blue), 'Basics: Filter By Breed', 'TheDogAPI.com', 'Basics: Voting', 'Discord Server', 'NPM node library installation', 'Basics: Favouriting', 'Code Samples', 'OpenAPI Spec Doc', 'Postman API Docs', and 'More APIs...'. The main content area has a white background. It features a 'Quick start' section with a button to 'Click this to get 10 random images' (link: https://api.thecatapi.com/v1/images/search?limit=10). Below it is a 'Getting Images' section with instructions about using an API key. It includes a 'What's in the Array of Images' section and an 'Example Response (Array of Image Objects)' block containing JSON code:

```
[{"id": "ebv", "url": "https://cdn2.thecatapi.com/images/ebv.jpg", "width": 176, "height": 540, "breeds": [], "favourite": {}}]
```

At the bottom, there is a 'Query Parameters (only used with a valid API Key)' section and a 'Powered by reportwrapper' footer.

- In External Collections in Database, click "ADD COLLECTION".

The screenshot shows the MongoDB Compass application interface. On the left, there is a vertical toolbar with several icons: a plus sign inside a circle, a palette, a square, a document with a red border, a gear, a checkmark, a double arrow, and a refresh symbol. To the right of the toolbar, the main area displays "Database Collections" and a sub-collection "Users" with "1 Record". Below this, there is a red button labeled "+ ADD TO DATABASE". Further down, under "External Collections", there is a section titled "Connect to APIs" featuring icons for X, a yellow shield, a blue gear, and a green lightning bolt. It includes the text "Make your app even more powerful by connecting to 3rd party APIs" and a "LEARN MORE" link. At the bottom, there is a pink button labeled "+ ADD COLLECTION". A callout box at the bottom right indicates a "Free Trial | 14 Days Left" and encourages upgrading to ensure external collections stay up and running, with a "UPGRADE NOW" button.

+ Database Collections :

Database Collections

> Users 1 Record :

+ ADD TO DATABASE

External Collections

Connect to APIs

Make your app even more powerful by connecting to 3rd party APIs [LEARN MORE](#)

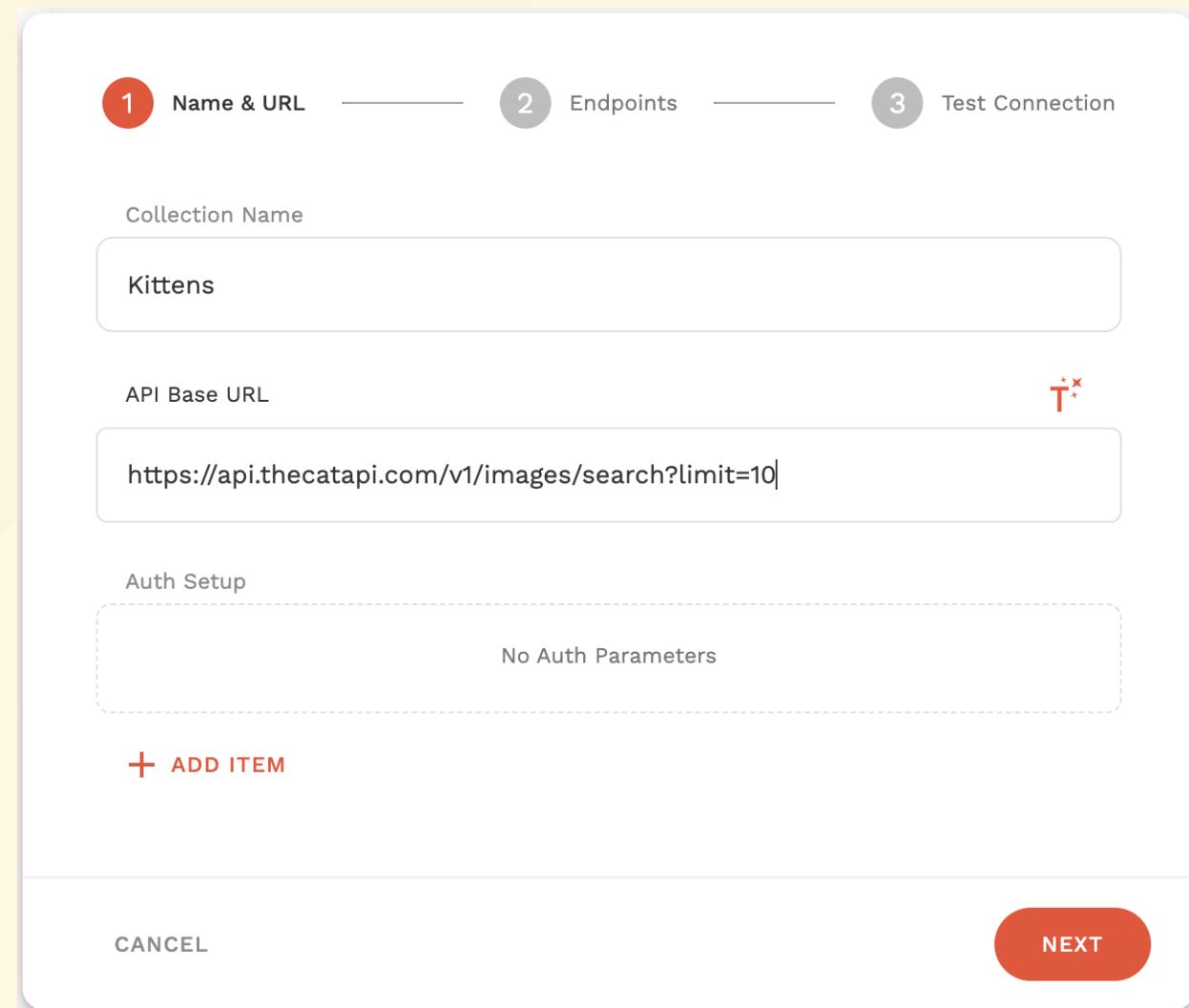
+ ADD COLLECTION

Free Trial | 14 Days Left

Upgrade now to make sure all of your external collections stay up and running.

UPGRADE NOW

- Set the following and click NEXT
  - Collection Name: Kittens
  - Base URL:  
[https://api.thecatapi.com/v1/images/search?  
limit=10](https://api.thecatapi.com/v1/images/search?limit=10)



The screenshot shows the first step of creating a new API collection in Zapier. The title "1 Name & URL" is highlighted in red. The "Collection Name" field contains "Kittens". The "API Base URL" field contains the URL [https://api.thecatapi.com/v1/images/search?  
limit=10](https://api.thecatapi.com/v1/images/search?limit=10). Below the URL is a "Auth Setup" section with a dashed border, labeled "No Auth Parameters". A red "+ ADD ITEM" button is located at the bottom left of this section. At the bottom right are "CANCEL" and "NEXT" buttons.

1 Name & URL

2 Endpoints

3 Test Connection

Collection Name

Kittens

API Base URL

https://api.thecatapi.com/v1/images/search?limit=10

Auth Setup

No Auth Parameters

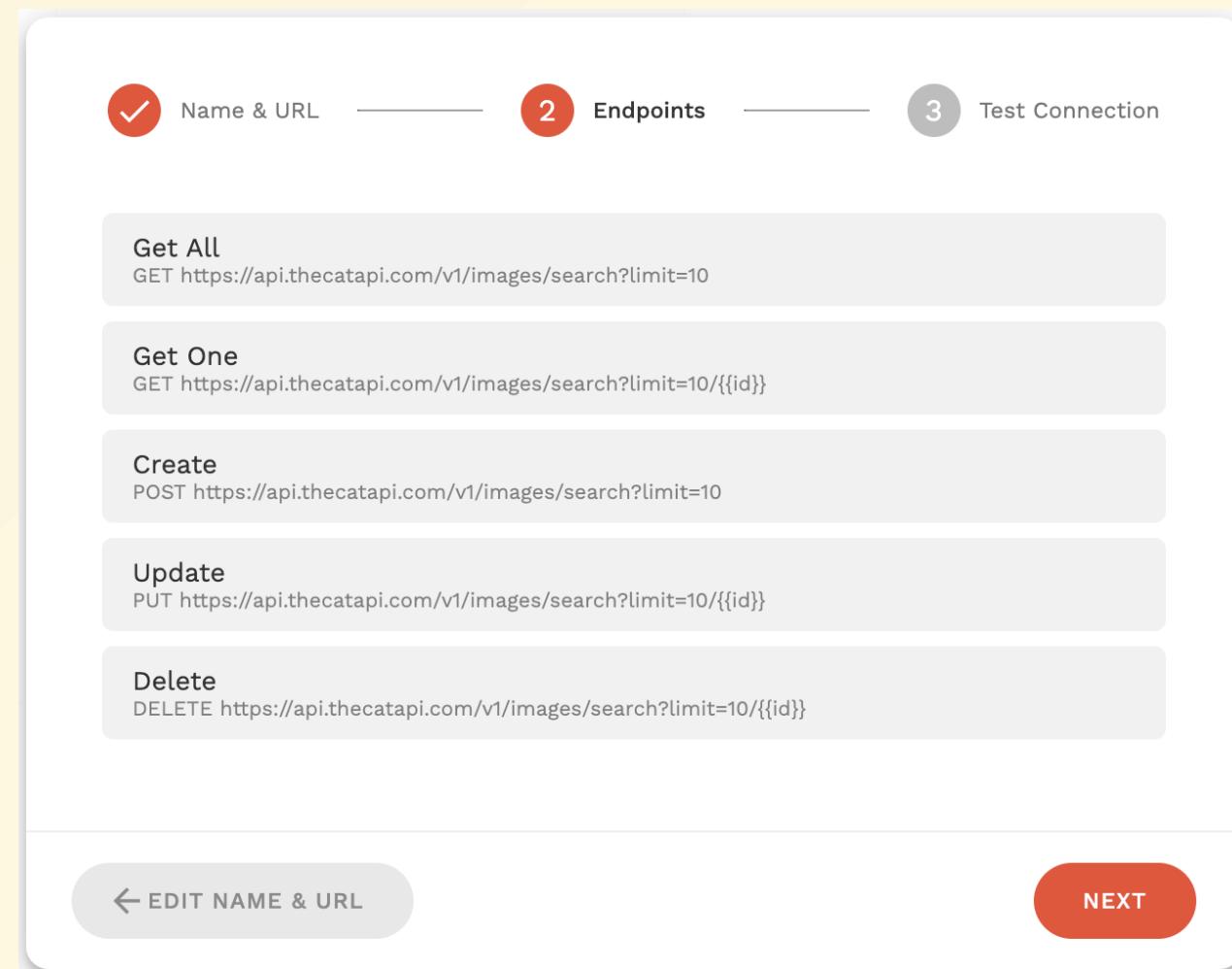
+ ADD ITEM

CANCEL

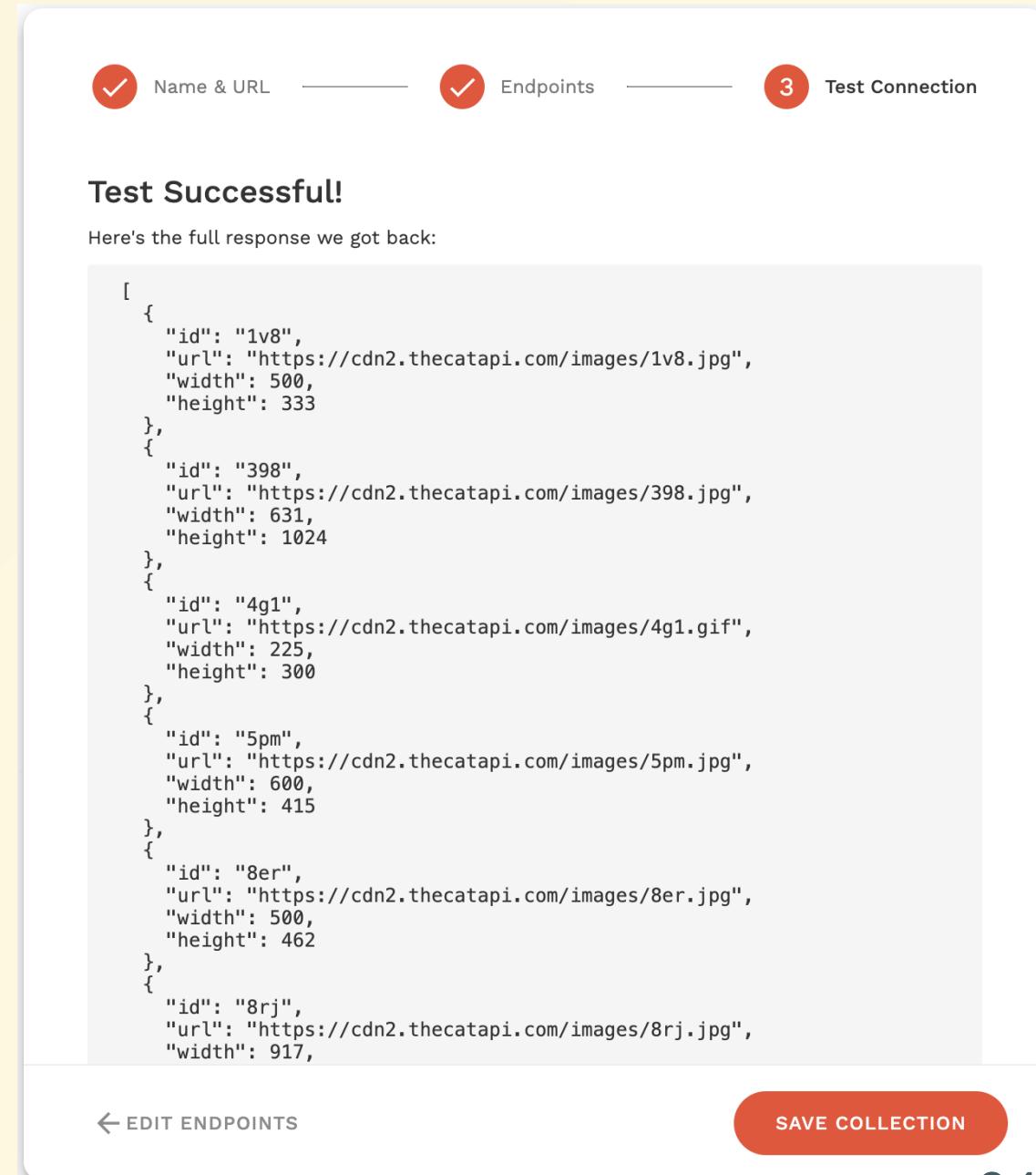
NEXT

In Adalo, five Endpoints (access methods) can be set for each resource (Kittens in this example) to be accessed by the API.

Depending on the specification of the API, you may need to modify it to match your needs, but in this case, you can click NEXT as is.



- Run the test and if successful, click "SAVE COLLECTION"



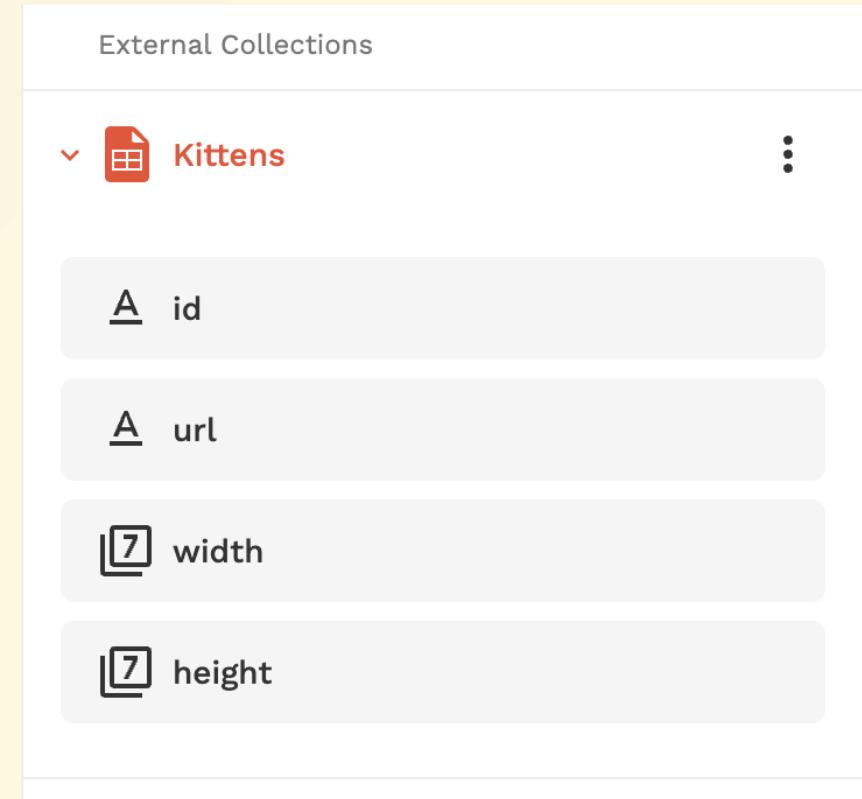
The screenshot shows a user interface for managing API collections. At the top, there are three tabs: "Name & URL" (with a checkmark), "Endpoints" (with a checkmark), and "Test Connection" (with a red circle containing the number 3). Below the tabs, the message "Test Successful!" is displayed, followed by the text "Here's the full response we got back:". A JSON array is shown, representing the response from the API. At the bottom, there are two buttons: "EDIT ENDPOINTS" and a large red "SAVE COLLECTION" button.

```
[
  {
    "id": "1v8",
    "url": "https://cdn2.thecatapi.com/images/1v8.jpg",
    "width": 500,
    "height": 333
  },
  {
    "id": "398",
    "url": "https://cdn2.thecatapi.com/images/398.jpg",
    "width": 631,
    "height": 1024
  },
  {
    "id": "4g1",
    "url": "https://cdn2.thecatapi.com/images/4g1.gif",
    "width": 225,
    "height": 300
  },
  {
    "id": "5pm",
    "url": "https://cdn2.thecatapi.com/images/5pm.jpg",
    "width": 600,
    "height": 415
  },
  {
    "id": "8er",
    "url": "https://cdn2.thecatapi.com/images/8er.jpg",
    "width": 500,
    "height": 462
  },
  {
    "id": "8rj",
    "url": "https://cdn2.thecatapi.com/images/8rj.jpg",
    "width": 917,
  }
]
```

[EDIT ENDPOINTS](#) [SAVE COLLECTION](#)

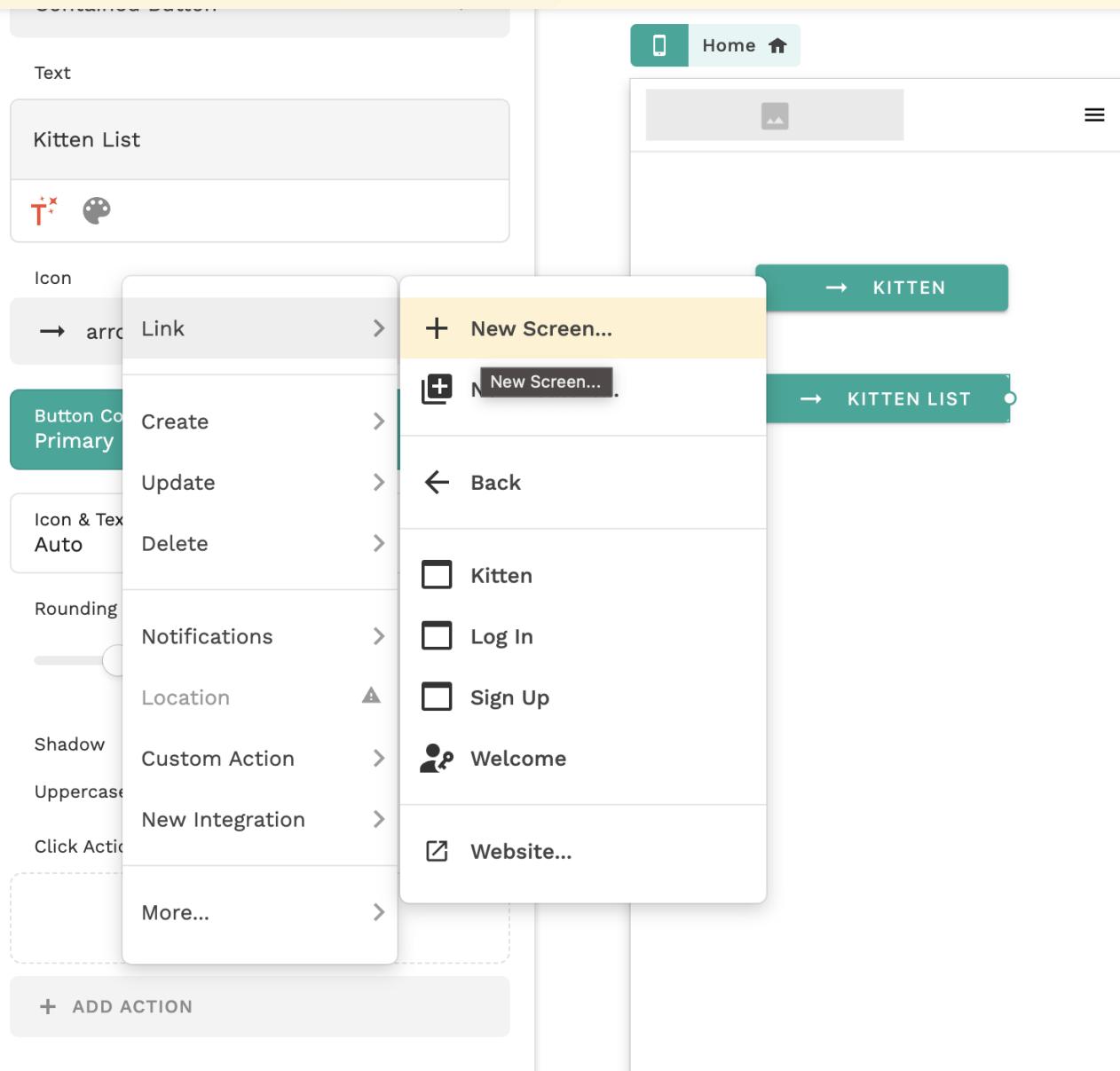
An External Collection has been created.

All data to be retrieved from the API are set as properties.

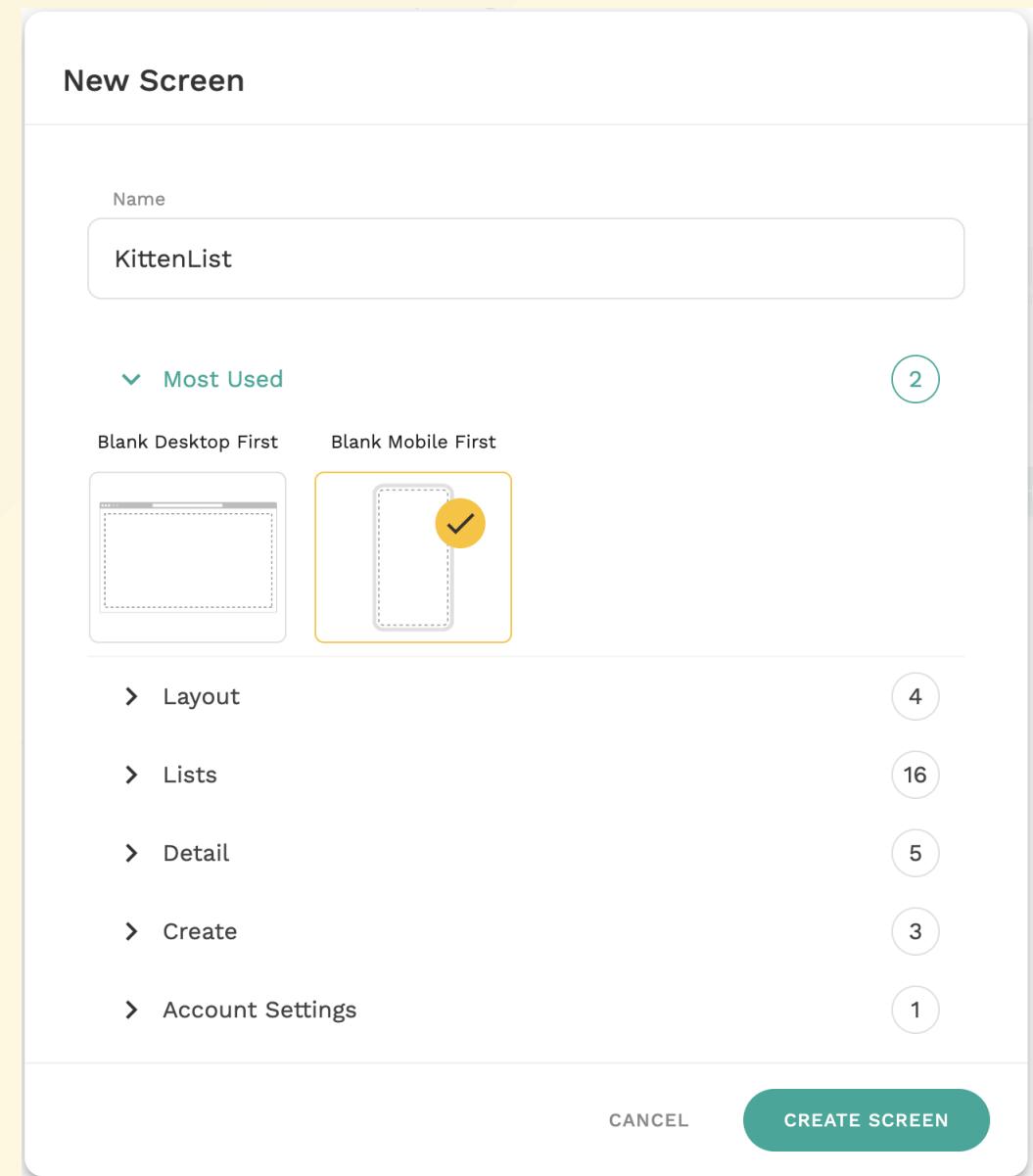


List the data.

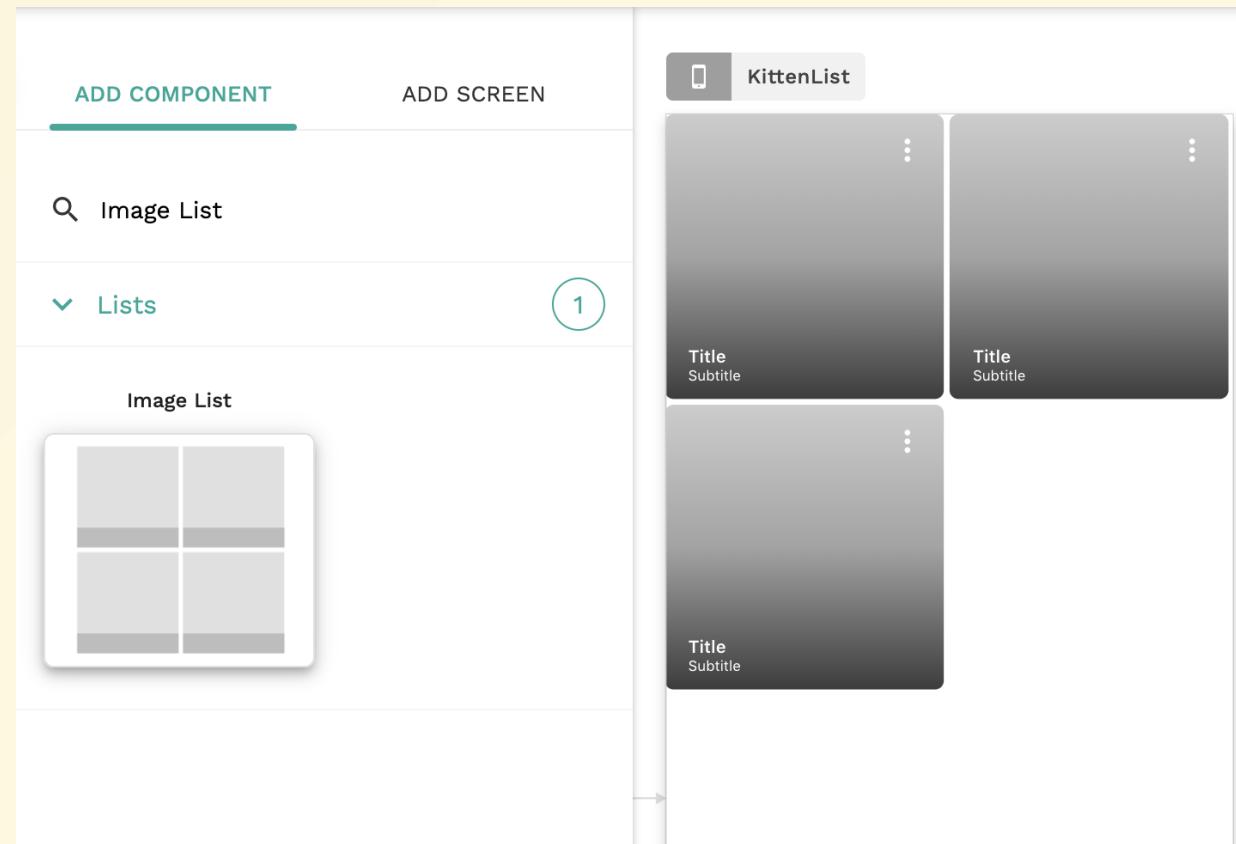
- Add "Kitten List Link" button on Home screen
- Add LINK to NEW SCREEN from ADD ACTION



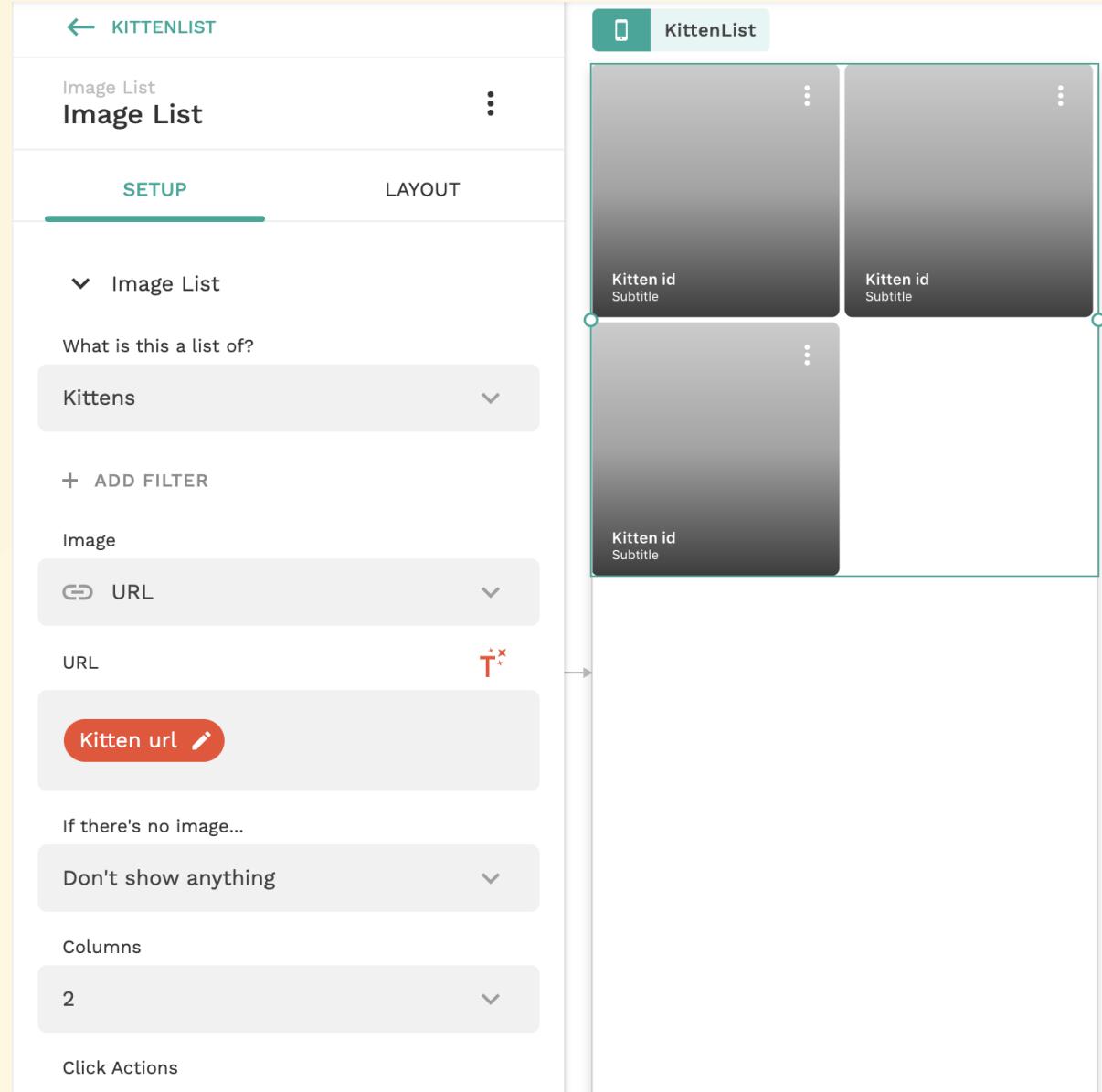
- Select BlankMobileFirst and create "KittenList" screen



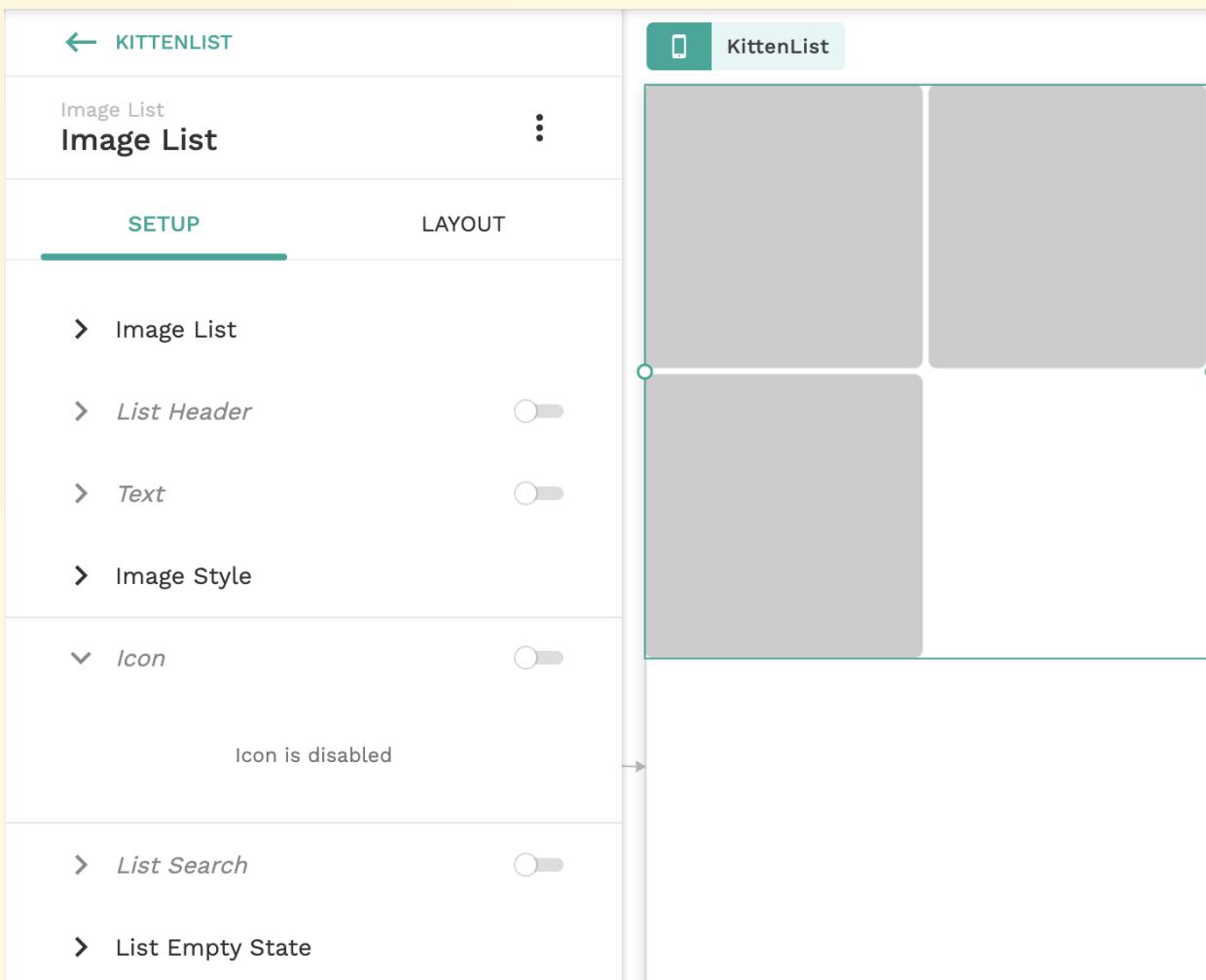
- Add Image List from ADD COMPONENT



- Set as a list of Kittens Collection
- Set "kitten url" to Image URL
- Set "Don't show anything" to "If there's no image..."



- Hide Text and Icon because they are not needed.



You can see the list of cats by Preview.

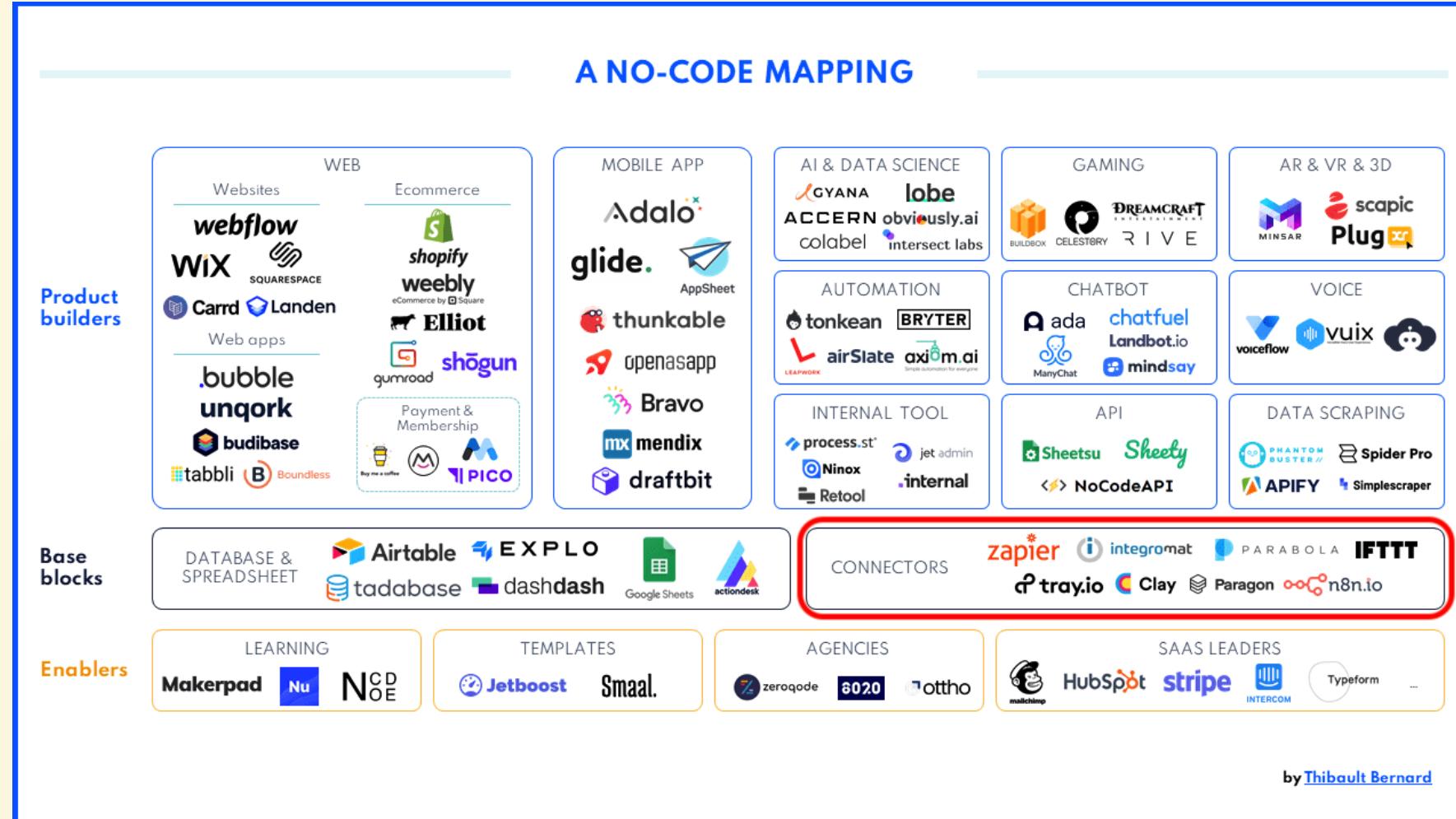


# Integration Service

With Custom Action and External Collection, it may be difficult to understand how to use the API from the documentation.

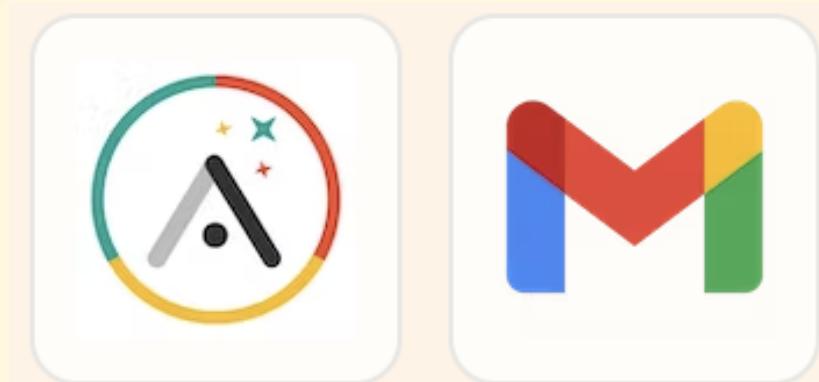
Let's try the service that can make external integration easy.

There are many different integration services, but this time we will try a service called Zapier that is built into Adalo.



Adalo does not have an email sending function.

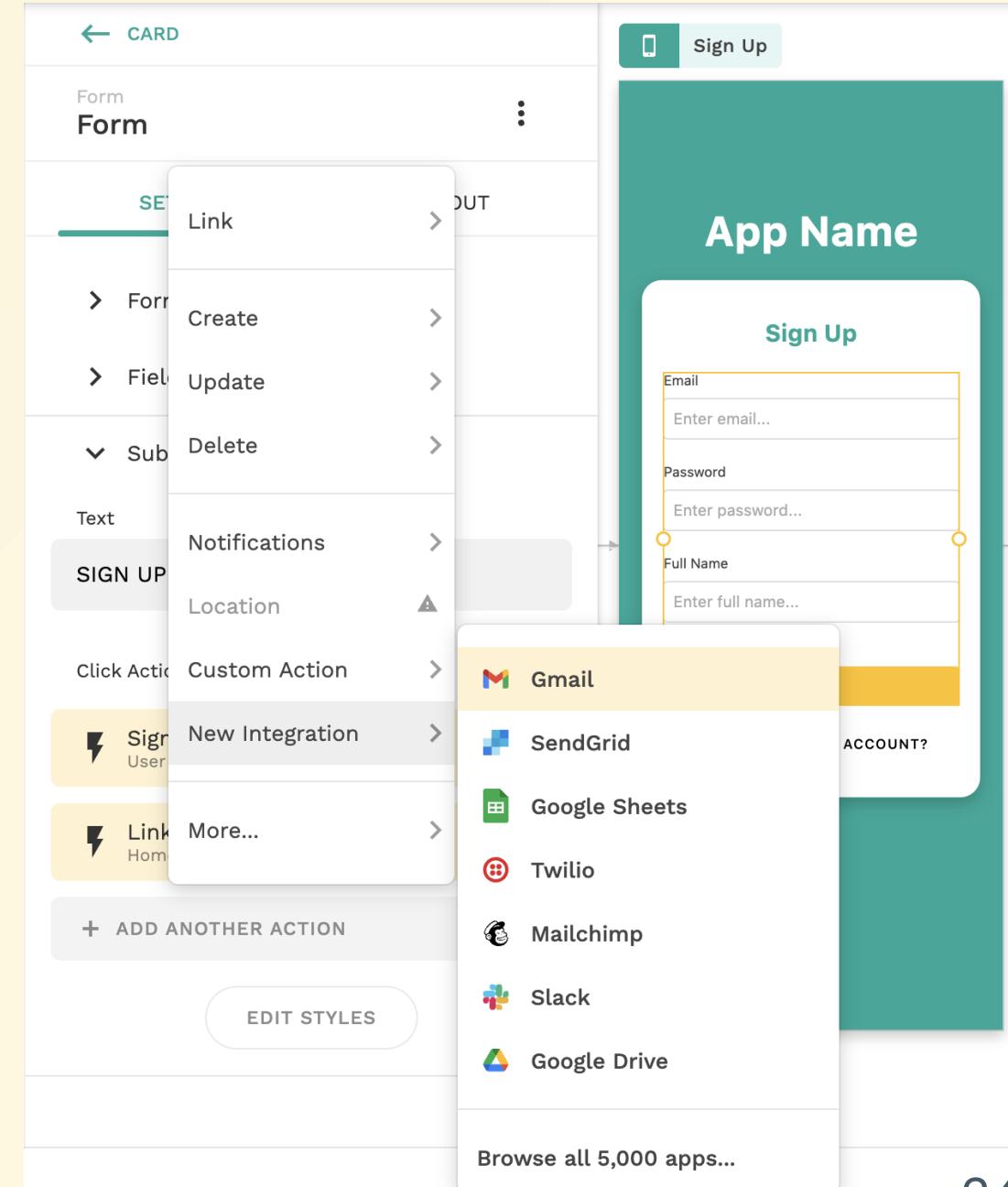
This time, we will use Zapier to link Adalo and Gmail so that a Welcome email will be automatically sent to people who SignUp to the application.



- Create a Google account, as you will need it to use Gmail.
  - If you already have one, you can use that account, so you do not need to create new one.
  - If you don't have one, click this URL and create one.  
<https://accounts.google.com/signup/v2/webcreateaccount?continue=https%3A%2F%2Faccounts.google.com%2FManageAccount%3Fnc%3D1&dsh=S50453738%3A1637917137418951&biz=false&flowName=GlifWebSignIn&flowEntry=SignUp>

Once your Google account is ready, we will set up the integration with Zapier.

- Select the Submit Button on the Sign Up screen of the ApilntegrationTrial app.
- Select ADD ANOTHER ACTION > New Integration > Gmail



- Click Use this Zap at the top, Send Gmail emails for new Adalo records.

## Connect Adalo to Gmail with Zapier

[LEARN MORE](#)

The screenshot shows three search results for connecting Adalo to Gmail:

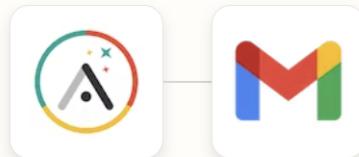
- Send Gmail emails for new Adalo records**  
Adalo + Gmail [Use this Zap](#)
- Send emails in Gmail for updated records in Adalo**  
Adalo + Gmail [Use this Zap](#)
- Add labels to emails in Gmail when new records are created in Adalo**  
Adalo + Gmail [Use this Zap](#)

Below the results, there is a link: "Not seeing what you're looking for? [Create from scratch](#) or [learn more](#)".

BACK

- Click Continue

**Click Continue to connect Adalo and Gmail using Zapier**



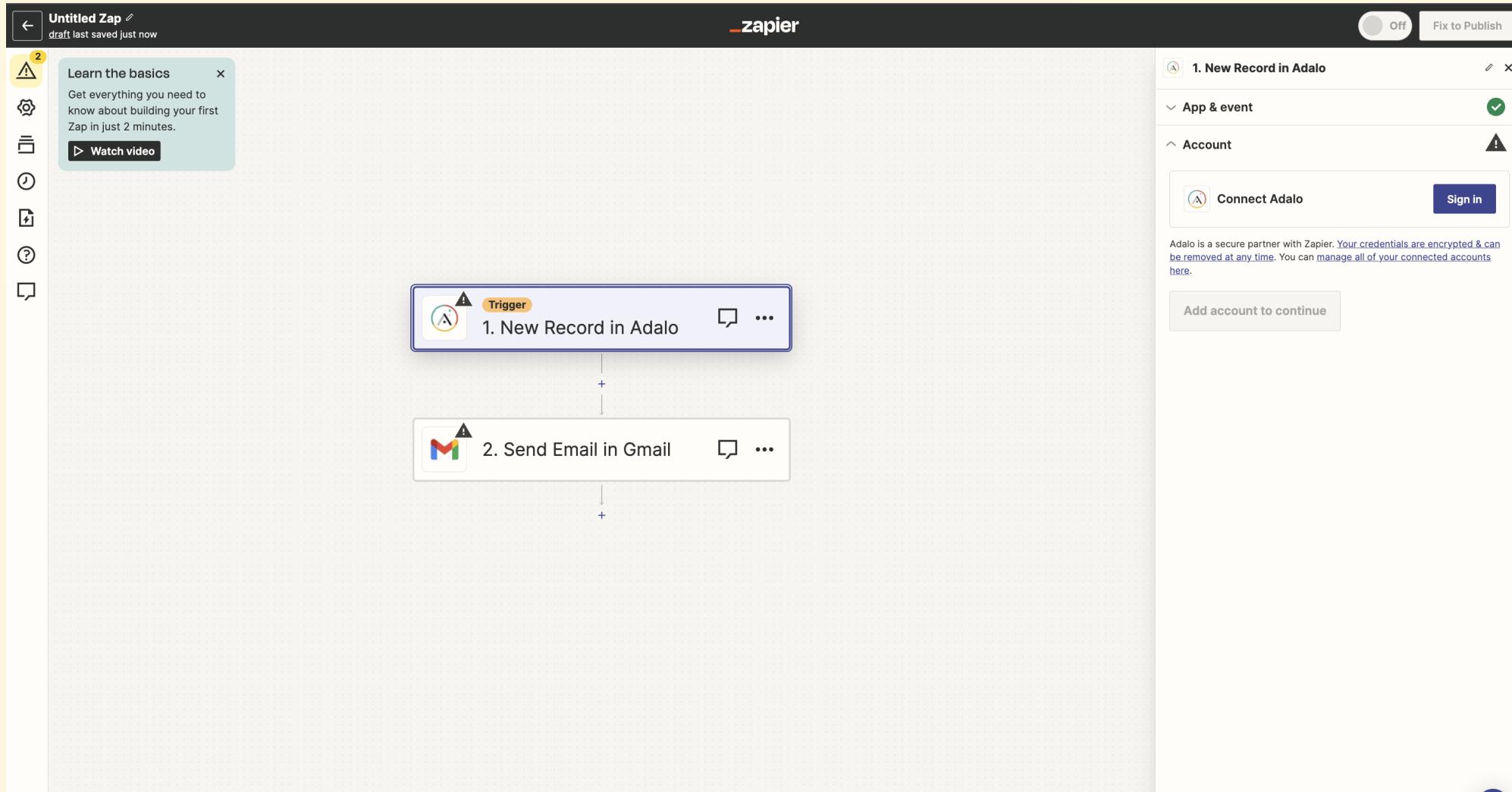
- ✓ Easy setup, no code required
- ✓ Free forever for core features
- ✓ 14-day trial of premium features & apps

By clicking Continue below,  
(1) your information will be used to create a new Zapier account; and  
(2) you agree to Zapier's [Terms of Service](#) and [Privacy Policy](#).

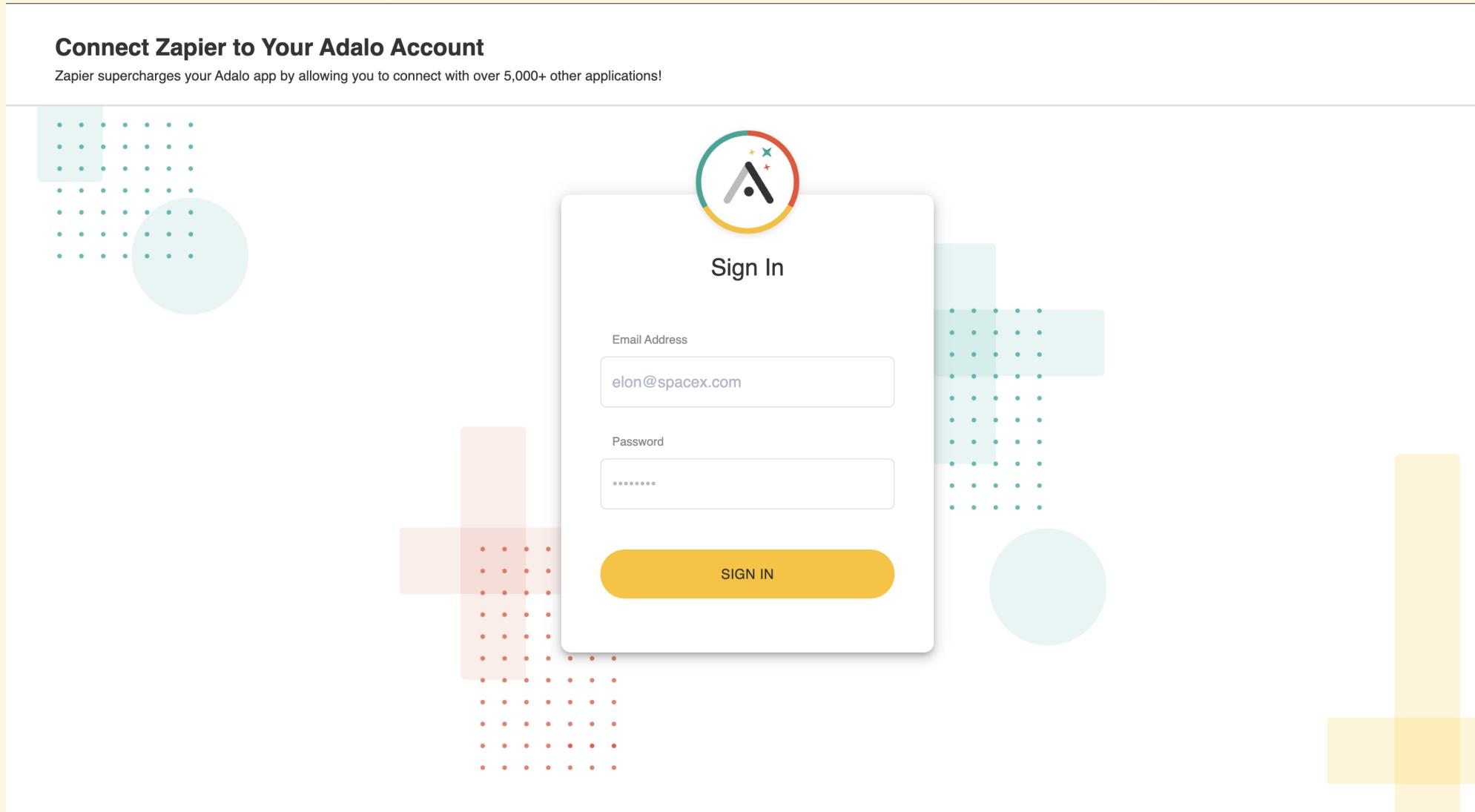
**Continue**

# Zapier setup window will open

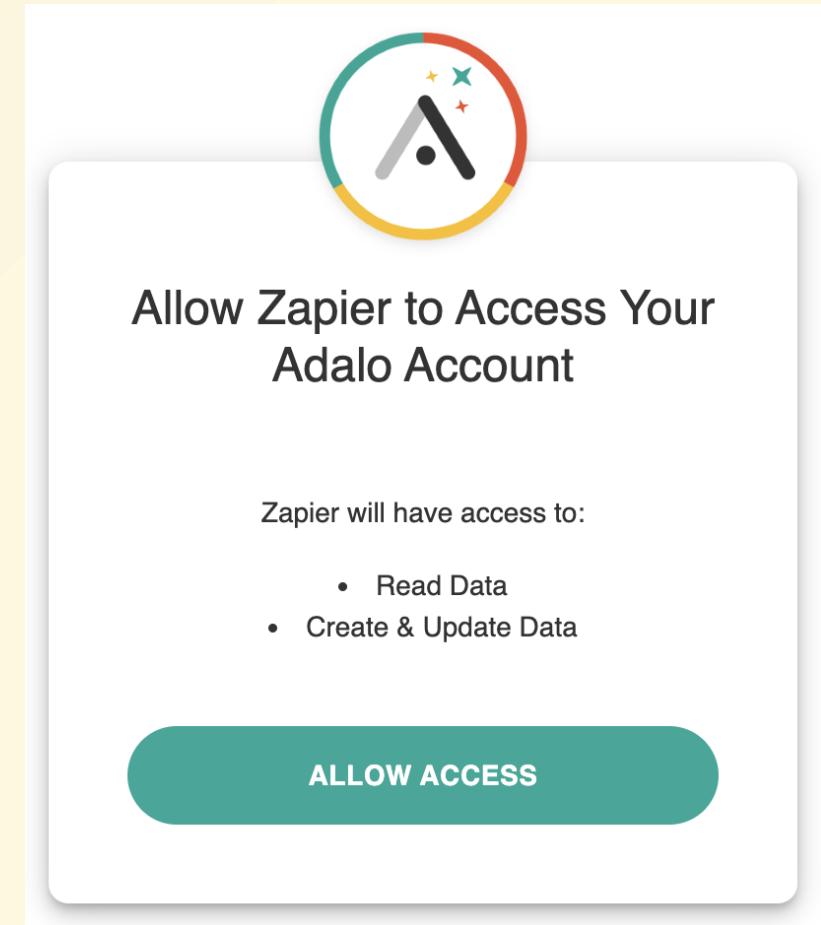
- Click Sign In under Connect Adalo on the right side.



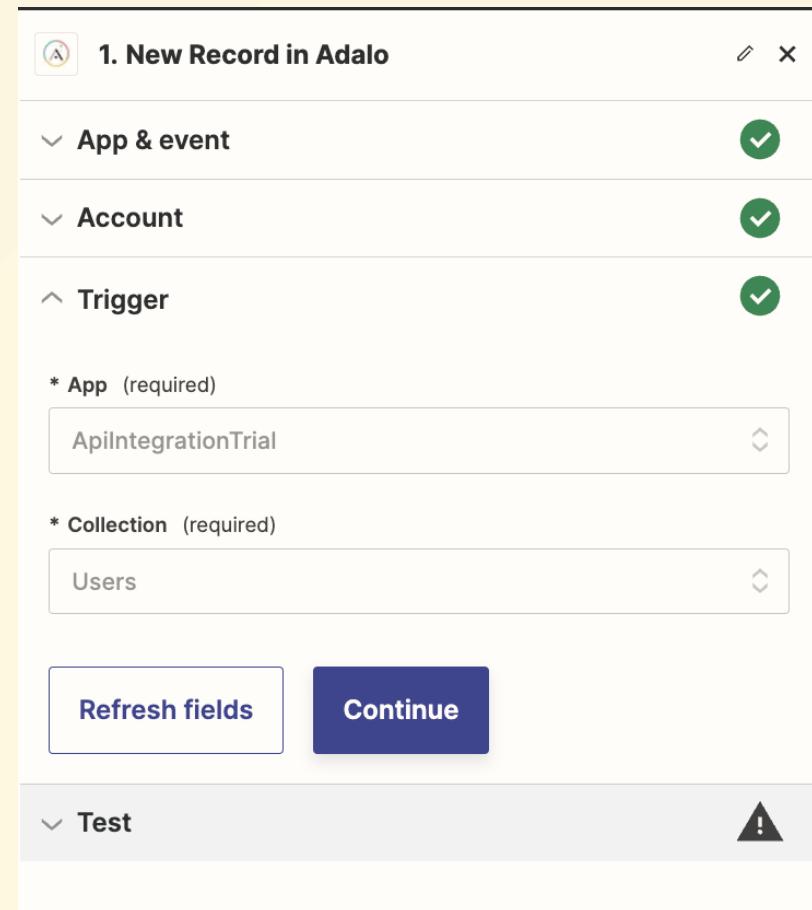
- Log in to Adalo



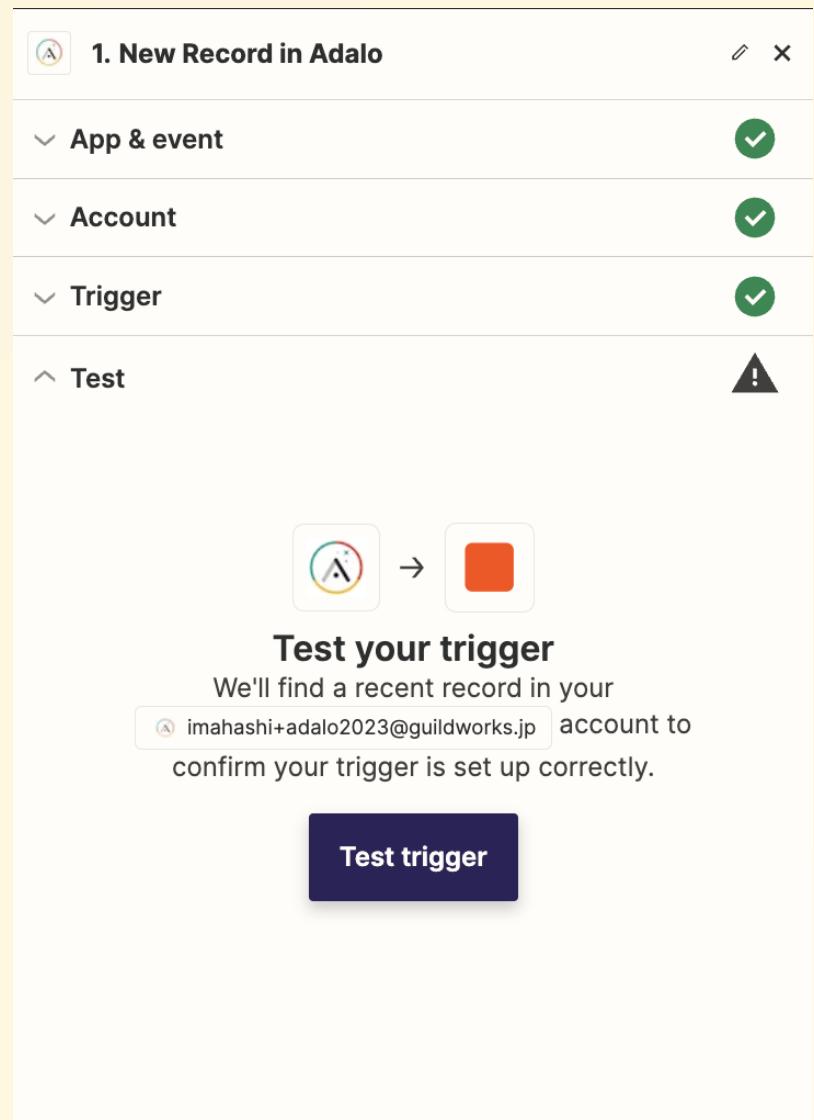
- Click ALLOW ACCESS



- Set Trigger as follows
  - App: ApilntegrationTrial
  - Collection: Users



- Click Test trigger



- When a record is found, click Continue with selected record

**1. New Record in Adalo**

✓ App & event ✓

✓ Account ✓

✓ Trigger ✓

^ Test ✓

We found records in your Adalo account. We will load up to 3 most recent records, that have not appeared previously. [Learn more about test records.](#)

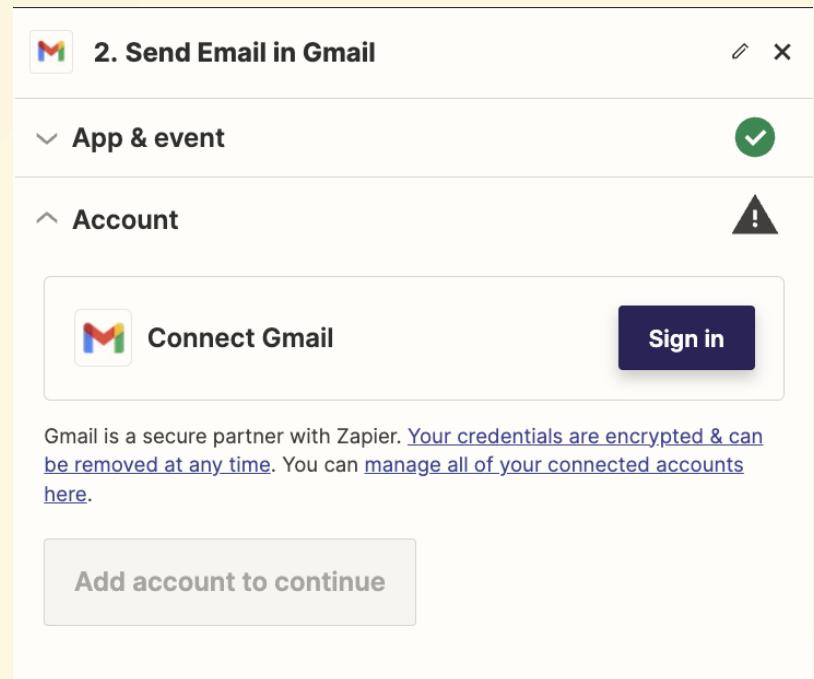
Search

Record A original record pulled on Nov 02, 2023	id 1 created_at 2023-11-02T13:18:47.193Z updated_at 2023-11-02T13:18:47.193Z Email imahashi@guildworks.jp Username Full Name 今橋 陵
--	--

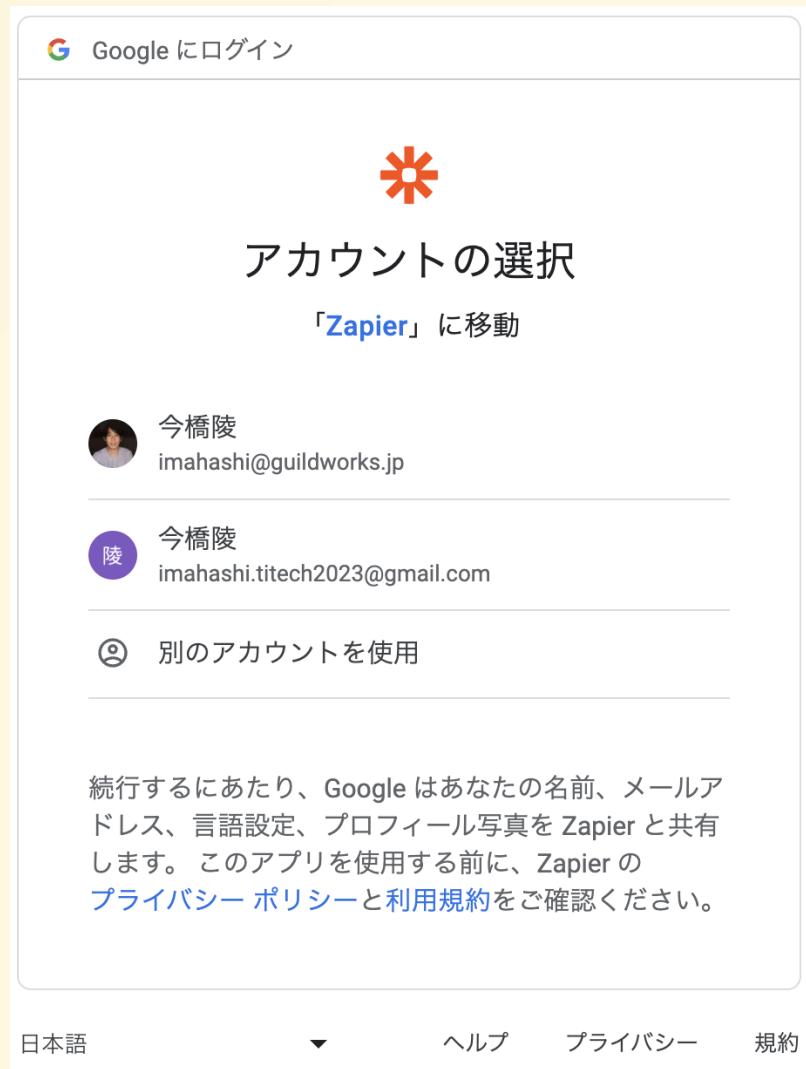
Find new records

Continue with selected record

- Click Connect Gmail Sign in



- Select Account



- Click Allow



# Set Action.

- Set your Gmail address in From
- Set the application name in From Name
- Enter Subject and Body as you like.
- Click Continue

2. Send Email in Gmail

^ Action

To

1. Email: imahashi@guildworks.jp

Enter text or insert data...

Who will this email be sent to? Multiple email addresses can be entered either individually, or as a comma separated list, eg.... more

Cc

Enter text or insert data...

Who should be cc'd on this email? Multiple email addresses can be entered either individually, or as a comma separated list, eg.... more

Bcc

Enter text or insert data...

Who should be bcc'd on this email? Multiple email addresses can be entered either individually, or as a comma separated list, eg.... more

From

imahashi.titech2023@gmail.com

Select an email address or alias from your Gmail Account. Defaults to the primary email address. more

From Name

ApilIntegrationTrial

Reply To

Enter text or insert data...

Specify a single reply address other than your own.

\* Subject (required)

Welcome to ApilIntegrationTrial App

Body Type

plain

If using the HTML option, you must add any and all formatting (paragraphs, lists, etc) directly using HTML. [Learn more.](#) more

\* Body (required)

Hello, 1. Full Name: 今橋 陵  
Thank you for signing up my app.  
I hope you enjoy it.

2

- If the "to:" address is your actual email address, click "Test step" to confirm receipt of the email.
  - If not, click on "Skip test" (because the test will fail to send the email).

2. Send Email in Gmail

✓ App & event  
✓ Account  
✓ Action  
⚠ Test

Send Send Email to Gmail  
To test Gmail, we need to create a new send email. This is what will be created:

Search item data...

```

body Hello, 今橋 陵
      Thank you for signing up my app.
      I hope you enjoy it.
body_type plain
from imahashi.titech2023@gmail.com
from_name ApilIntegrationTrial
subject Welcome to ApilIntegrationTrial App
to
1 imahashi@guildworks.jp

```

**Empty fields:**

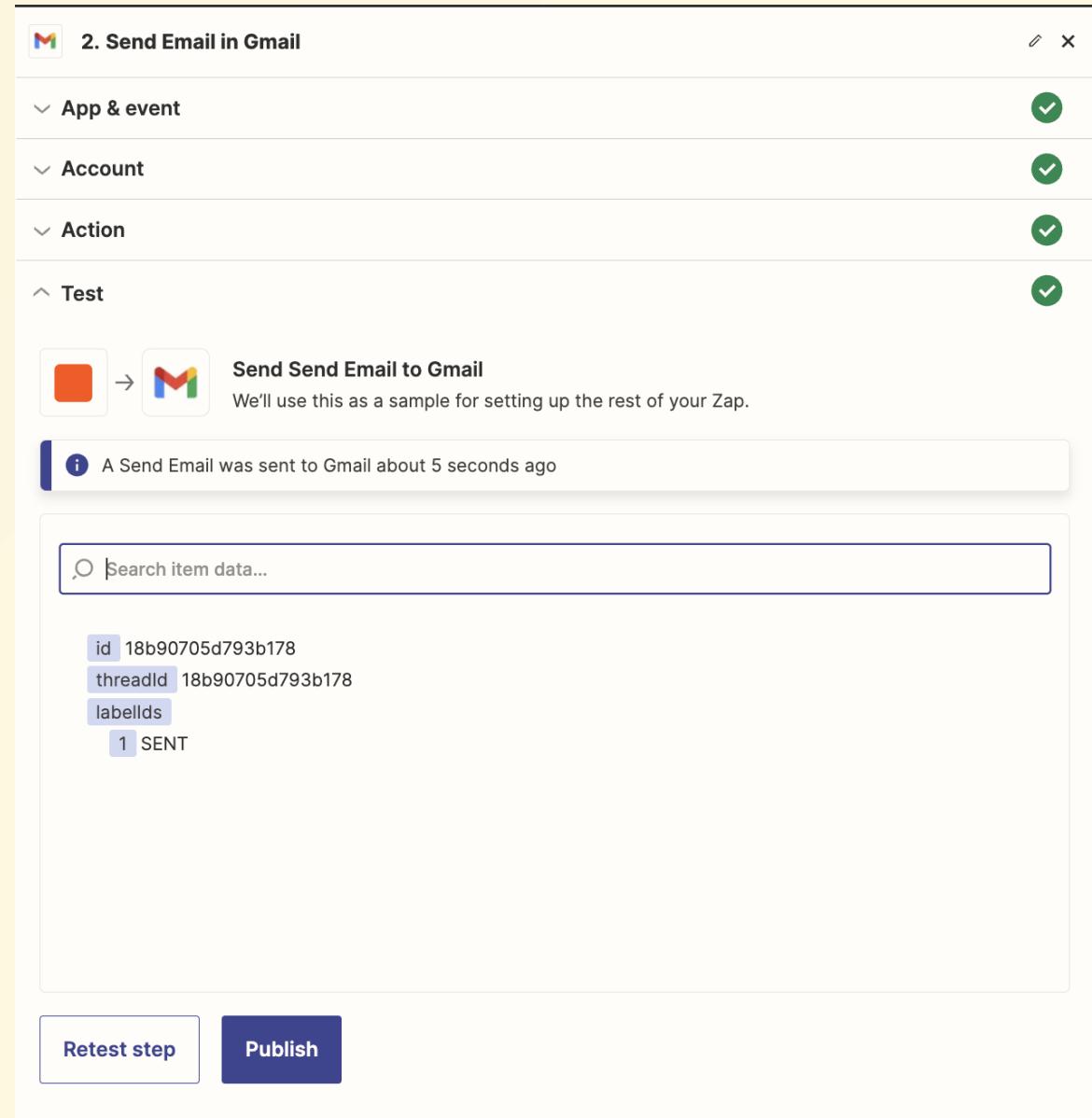
- Cc empty (optional)
- Bcc empty (optional)
- Reply To empty (optional)
- Signature empty (optional)
- Label/Mailbox empty (optional)
- Attachments empty (optional)

[Skip test](#) [Test step](#)

3

- Click Publish

Integration setting with Zapier is done.



Make sure a Welcome email is sent to you in Adalo's ApilntegrationTrial app.

- Enter your actual email address in the Preview function and Signup, and you will receive an email within 2 minutes!



FYI: You can also manually run Zap immediately from the Zap listing screen without waiting 2 minutes.

- Go to <https://zapier.com/app/zaps>
- Select the Zap you want to run and click "Run Zap"

The screenshot shows the Zapier application interface. At the top, there is a blue header bar with the text "Welcome to your Professional trial!" and "You have 14 days to try Zapier's paid features. Upgrade anytime for as low as \$49 USD/month." Below the header, the main navigation bar has "zapier" in the center, with icons for "Zaps" (highlighted in orange), "Home", "Personal" (selected), and "Shared". On the left, there is a sidebar with icons for "Zaps", "Teams", "Personal", "Shared", "Collaborate", "Duplicate", "History", "Share template", "Turn off and delete Zap", and "Create a personal folder". The main content area is titled "Home" and shows a list of "Untitled Zap"s. The first Zap in the list has a "Run Zap" button. To the right of the Zap list, there is a detailed view of a specific Zap, showing it was "Owned by: Ryo I.", "Published: November 02, 2023 at 11:30 pm", and has a status of "Zap is on." with a green switch icon. It also includes "View in Editor", "Duplicate", "History", "Share template", and "Turn off and delete Zap" buttons.

With Zapier, you can integrate various other services.

When something comes up that cannot be successfully achieved with Adalo alone, you may should consider whether it can be achieved by integration with other services.

Most Popular Integrations using Zapier [LEARN MORE](#)

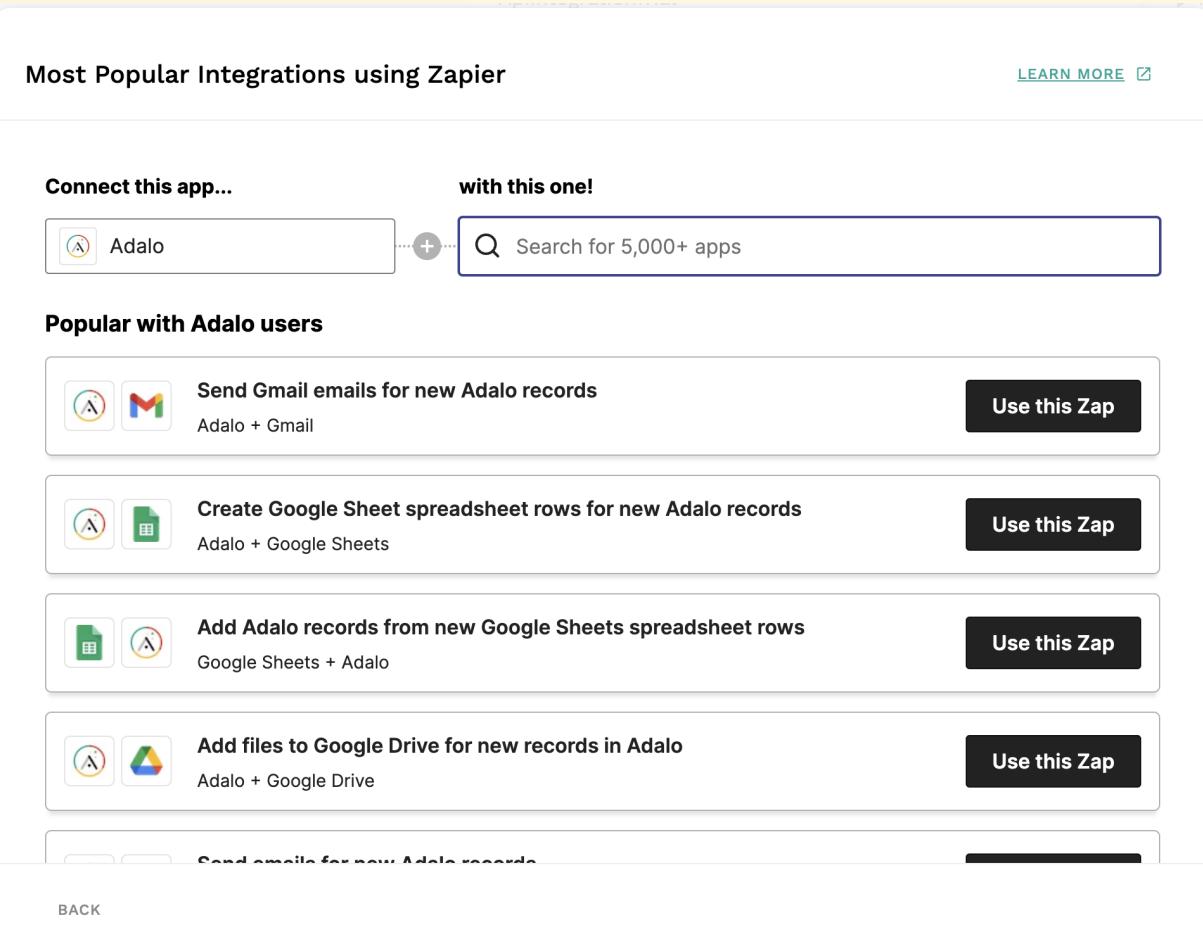
Connect this app... with this one!

Adalo +  Search for 5,000+ apps

Popular with Adalo users

-   Send Gmail emails for new Adalo records  
Adalo + Gmail [Use this Zap](#)
-   Create Google Sheet spreadsheet rows for new Adalo records  
Adalo + Google Sheets [Use this Zap](#)
-   Add Adalo records from new Google Sheets spreadsheet rows  
Google Sheets + Adalo [Use this Zap](#)
-   Add files to Google Drive for new records in Adalo  
Adalo + Google Drive [Use this Zap](#)
-   Send emails for new Adalo records

BACK



That's all for external integration in Adalo.

## Exercise 2

- Develop one app you want use.
- If you cannot think of an app you want to use, develop a team member management app with the following functions.
  - Registration of team members
  - Display of member list
  - Displaying member details
  - Update member information
  - Delete members
  - Original functions(as many as you want).

We would like everyone to make a presentation at the end (if time permits).

When the app is ready to use, share the URL on Slack for everyone to see.

## Notes for the exercise

- While NoCode tools make it easy to create apps, they may not be able to realize complex UI and functions.
  - If you get stuck, think about how you can achieve what you want to do with a simple UI and functions.
    - For example: do not include many components in one screen, divide the screen into separate screens, etc.

## FYI

- Adalo has a number of apps that can be cloned, so it might be a good idea to see if there is something similar to what you want to do.
  - App Templates  
<https://www.adalo.com/app-templates>
  - UI & Functional Kits  
<https://www.adalo.com/cloneable-kits>

## Examples of apps that can be cloned

- Event Calendar <https://www.adalo.com/cloneables/event-calendar>
- SNS follow function <https://www.adalo.com/cloneables/follow-function>
- Facebook clone <https://www.adalo.com/cloneables/facebook-clone>
- Blog app <https://www.adalo.com/cloneables/minimal-blog-app>
- Product sales app <https://www.adalo.com/cloneables/ecommerce-app>



# Presentation of Exercise Results

Please make a presentation about the application you made in the exercise.

# Summary

- After introducing Adalo and learning how to design a database, we developed an application on the subject of a pet health care application.
- We introduced the following four methods of external integration with external services.
  - Marketplace external integration component
  - Custom Action
  - External Collection
  - Integration Service

- Based on what we have seen so far, it is a good idea for the team to consider whether the application they want to create in the Development Phase can be realized with Adalo.
- Next time, I will give a lecture on Bubble, a no-code tool. Please look forward to it!

**That's all!**

**Thank you for your hard work!**