

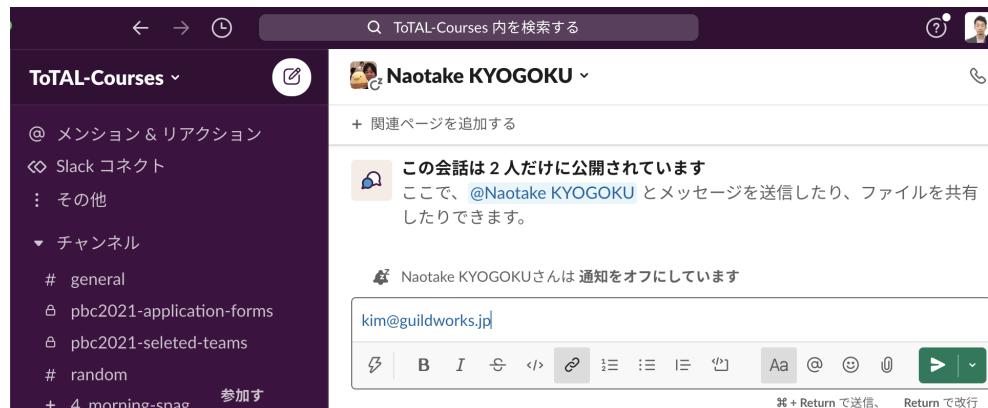
Programming Boot Camp Learning Phase # 4

## **Bubble Basic # 2**

2021/11/20

# In advance

- Today, we will add design and logic to the pet health management application created last time.
- Since we have made some modifications for today's lecture, we will ask you to use a duplicate of the application prepared by this side in order to align the starting point.
- We will distribute the duplicated application, so please send the email address that created the Bubble account to `@Naotake KYOGOKU`.



## What to do today

- Last review
- Creating a design
- Creating logic

## Review of the last time

-**Bubble** is called a visual programming tool, and it is a tool that allows you to program the appearance and movement by operating it from the screen.

- It is a prerequisite for Web applications, and we will make it compatible with smartphones and PCs by incorporating support according to the display size.
- If you were absent last time, let's catch up with this material.
  - <https://github.com/GuildWorks/titech-2021/tree/master/docs/Bubble1>

# Review of the last time

Pet registration, list, details, weight record screen of pet management application

While making it, I learned how to use Design / Workflow / Data, which is the basis of Bubble.

The image displays four screenshots of a pet management application interface, showing the registration, list, detail, and weight record screens.

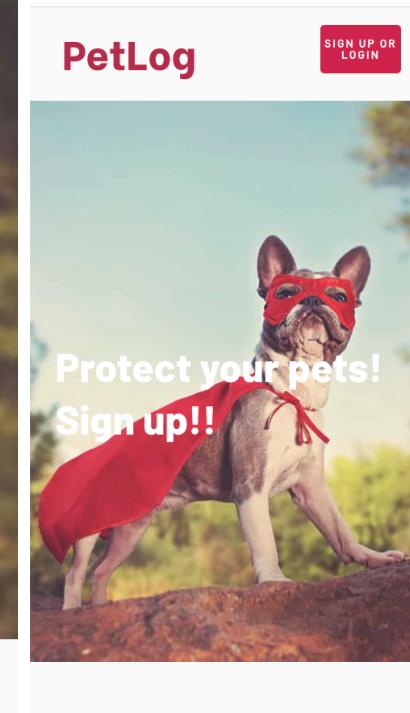
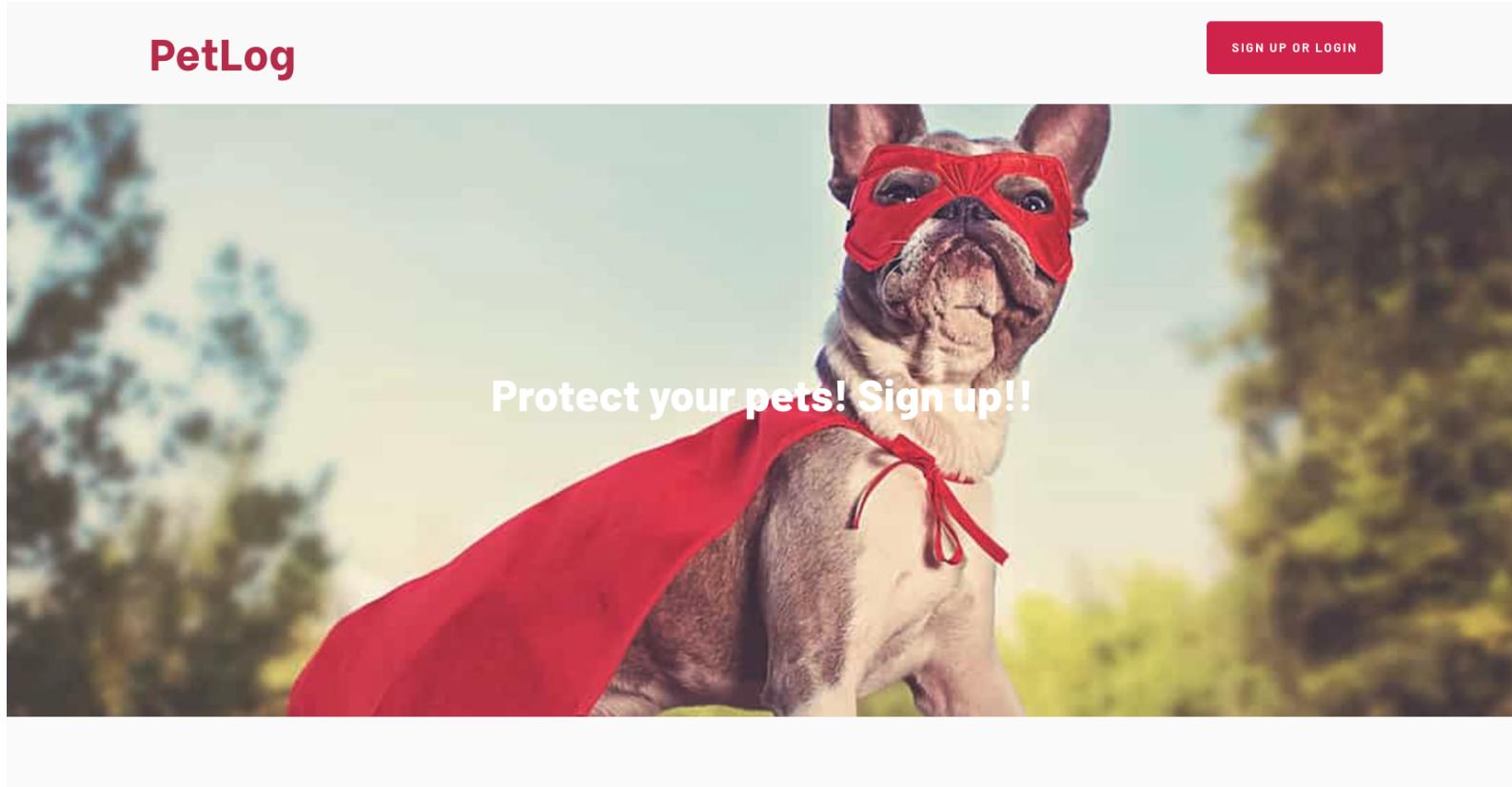
- Registration Screen:** Shows fields for Name (Tama), Image (a dog wearing a lion mane costume), Birthday (11/01/2021), and Gender (Female). A "REGISTER" button is at the bottom.
- List Screen:** Shows a list of three pets: Tama (lion mane), Shiro (ghost costume), and Pochi (baseball player costume).
- Detail Screen:** Shows details for Tama, including a photo, birthday (2021年11月1日), gender (女の子), and a "Weight Logs" section. It includes a "Back to list" link and an "UPDATE" button.
- Weight Record Screen:** Shows a line graph of weight logs for Tama over five dates. The graph has data points at approximately (11/17/2021, 4.0), (11/17/2021, 4.0), (11/17/2021, 5.0), (11/17/2021, 4.0), and (11/17/2021, 4.5). A "pet weight" input field and an "ADD" button are present.

## **What to do today**

This time, we will further create the design and logic for the applications up to the previous time.

# Eventually it will look like this

top page



# Pet list

## PetLog

pochi      tama      kuro

[PET REGISTER](#)

[LOG OUT](#)

## PetLog

pochi      tama      kuro

[LOG OUT](#)

# Pet details

## PetLog

[← Back to list](#)

**Image**

**Name (Initial)**  
pochi (P)

**Birthday**  
2019年11月19日

**Age (As Dog/Cat)**  
2 (24)

**Gender**  
女の子

**Latest Weight**  
3kg

**UPDATE**

**Weight Logs**

| Date       | Weight (kg) |
|------------|-------------|
| 2019-11-12 | 4.0         |
| 2019-11-19 | 4.0         |
| 2019-11-26 | 4.8         |
| 2019-12-03 | 3.0         |
| 2019-12-10 | 4.8         |
| 2019-12-17 | 3.0         |

**PetLog**

[← Back to list](#)

**Image**

**Name (Initial)**  
pochi (P)

**Birthday**  
2019年11月19日

**Age (As Dog/Cat)**  
2 (24)

**Gender**  
女の子

**Latest Weight**  
3kg

**UPDATE**

**Weight Logs**

# Advisor Pet List

## PetLog

LOG OUT

| Name | Gender | Birthday | Owner |
|------|--------|----------|-------|
|------|--------|----------|-------|



kuro

Female

2021年11月4日

kim@guildworks.jp



tama

Male

2021年11月2日

kim@guildworks.jp



pochi

Female

2019年11月19日

kim@guildworks.jp



コロネ

Male

2019年10月1日

kyogoku+bubble\_test@guildwo  
rks.jp



マロン

Male

2021年7月4日

kyogoku+bubble\_test@guildwo  
rks.jp

# Pet details for advisors

**PetLog**

[← Back to list](#)

**Image**



**Name (Initial)**  
pochi (P)

**Birthday**  
2019年11月19日

**Age (As Dog/Cat)**  
2(24)

**Gender**  
女の子

**Latest Weight**  
3kg



| Date     | Weight (kg) |
|----------|-------------|
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.1         |
| 11/17 7時 | 5.0         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 5.0         |
| 11/17 7時 | 3.0         |

LOG OUT

**So let's get started.**

**First of all, we will create the design**

## What to do by creating a design

- Let's make a screen that fits the display size
  - Using a technique called responsive web design, the appearance is controlled as follows according to the display size.
    - Stretch / shrink
    - Wrap / Do not wrap
    - Display / Do not display
- Let's use Style
  - Edit / add Styles or apply styles individually

**Let's make a screen that fits the display size**

## Let's make a screen that fits the display size

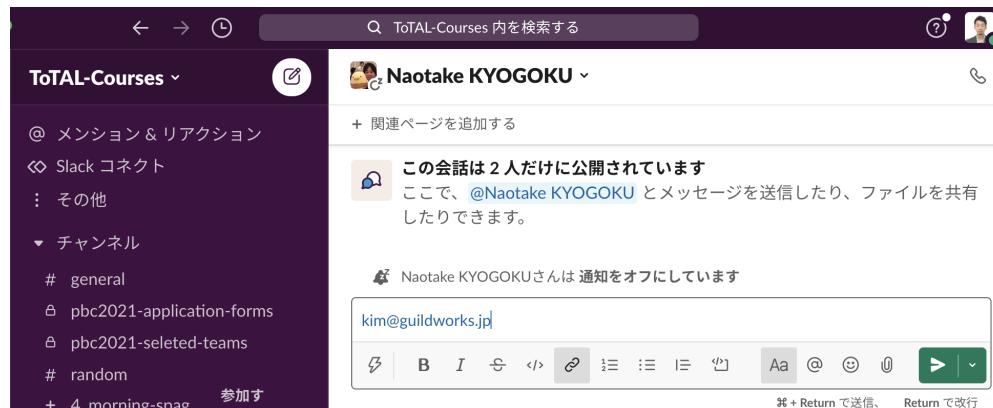
- Web applications are used on various terminals such as PCs, tablets, and smartphones.
- The display size is different for each terminal, but there is a design method called responsive web design as a method to deal with them.
- It is a method to switch the appearance such as stretching / shrinking, wrapping / not wrapping, and displaying / not displaying according to the screen size.
- Bubble has responsive web design function as standard, and it may be supported without being aware of it.

## **How to apply responsive web design**

- When thinking about responsive web design, it is common to first create a PC screen and then add display rules when the display size becomes smaller.
- When the main usage is on a smartphone, the screen of the smartphone may be created first and the PC display may be adjusted later.

# In advance (again)

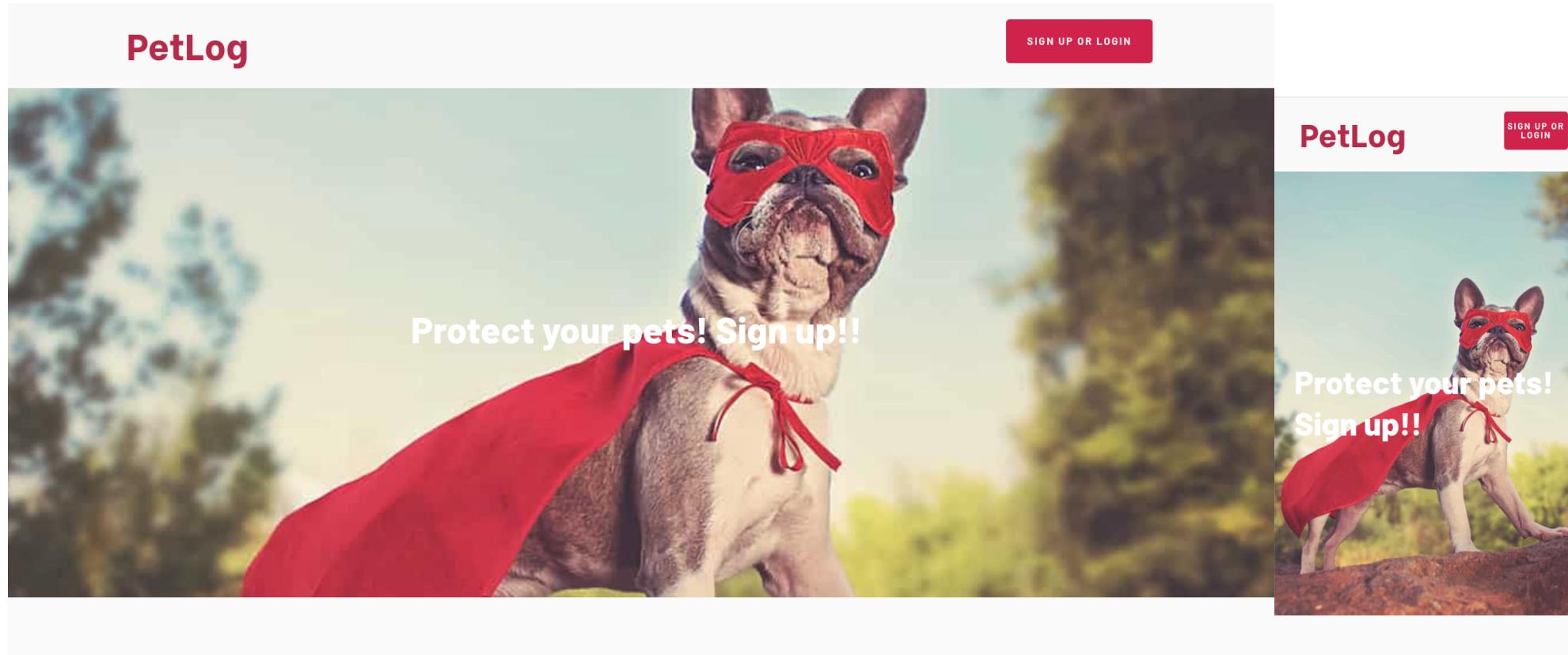
- Today, we will add design and logic to the pet health management application created last time.
- Since we have made some modifications for today's lecture, we will ask you to use a duplicate of the application prepared by this side in order to align the starting point.
- We will distribute the duplicated application, so please send the email address that created the Bubble account to **@Naotake KYOGOKU**.



# Place images and catches on the top screen

Place images and catches on the top screen to control responsive expansion and contraction.

Let's do it together.



# Image preparation

I use this image.

<https://raw.githubusercontent.com/GuildWorks/titech-2021/master/docs/Bubble2/materials/hero.jpg>

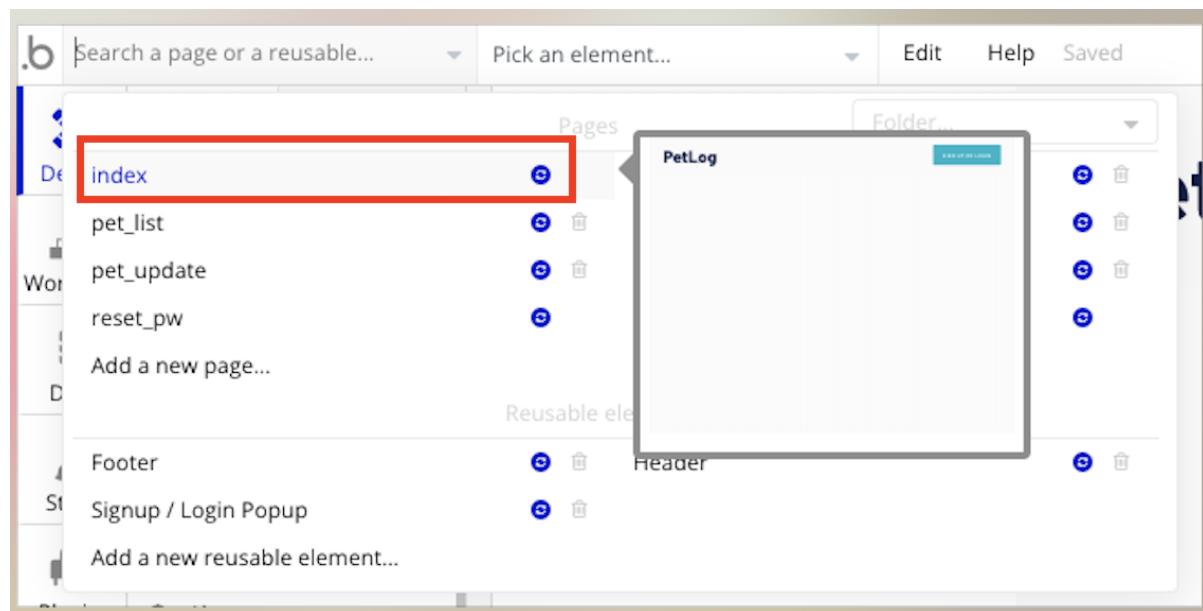
Depending on the aspect ratio and resolution, the adjustment method may not match the content of the lecture, so try to use the same image.



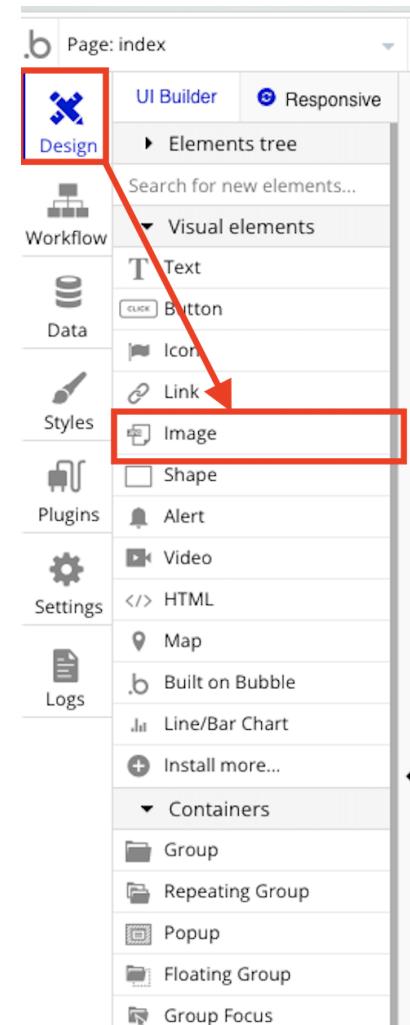
# Place the image on the top page

Please move to the top page. Do you remember the procedure?

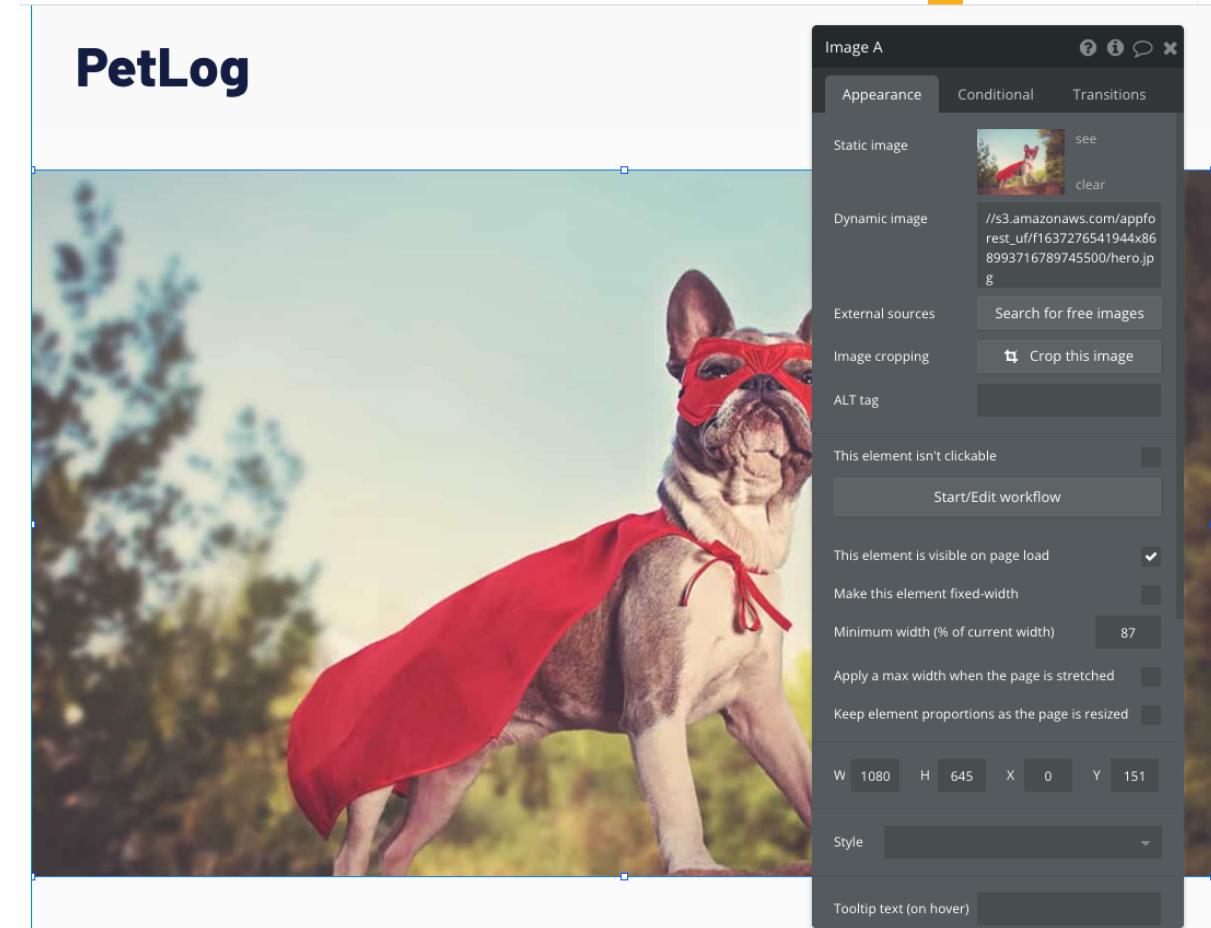
- Click to the right of the b logo at the top left of the screen and select the index page.



- From the left menu, click **Design > Image**.
- Place it in an appropriate size around the center of the screen.
  - Drag to the size you want to place where you want to place it.
- OK when the image Element is placed (the image is still empty).

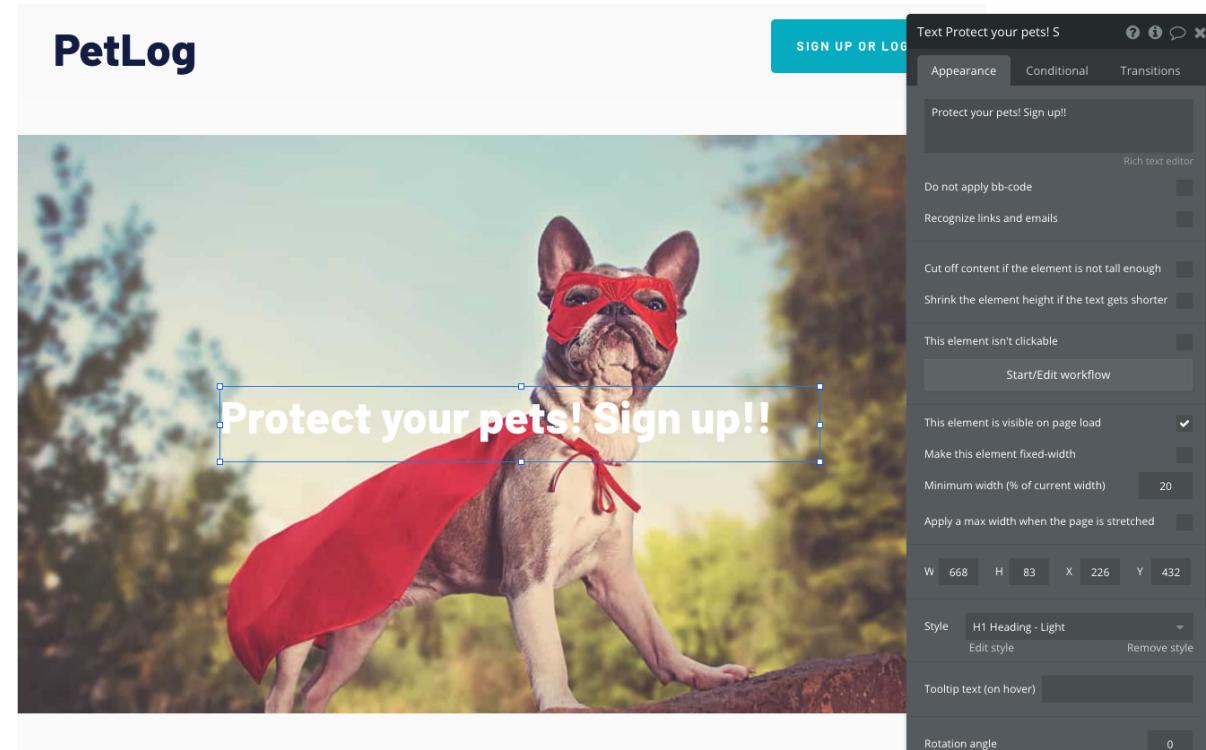


- A pop-up for setting appears on the right side of the image Element, so enter the settings.
- Upload the prepared image to Static Image .
- Stretch the image to the left and right, and arrange the top and bottom as you like.
  - In the case of Inu-chan Man, w:1080 and H: 645 seem to be good.



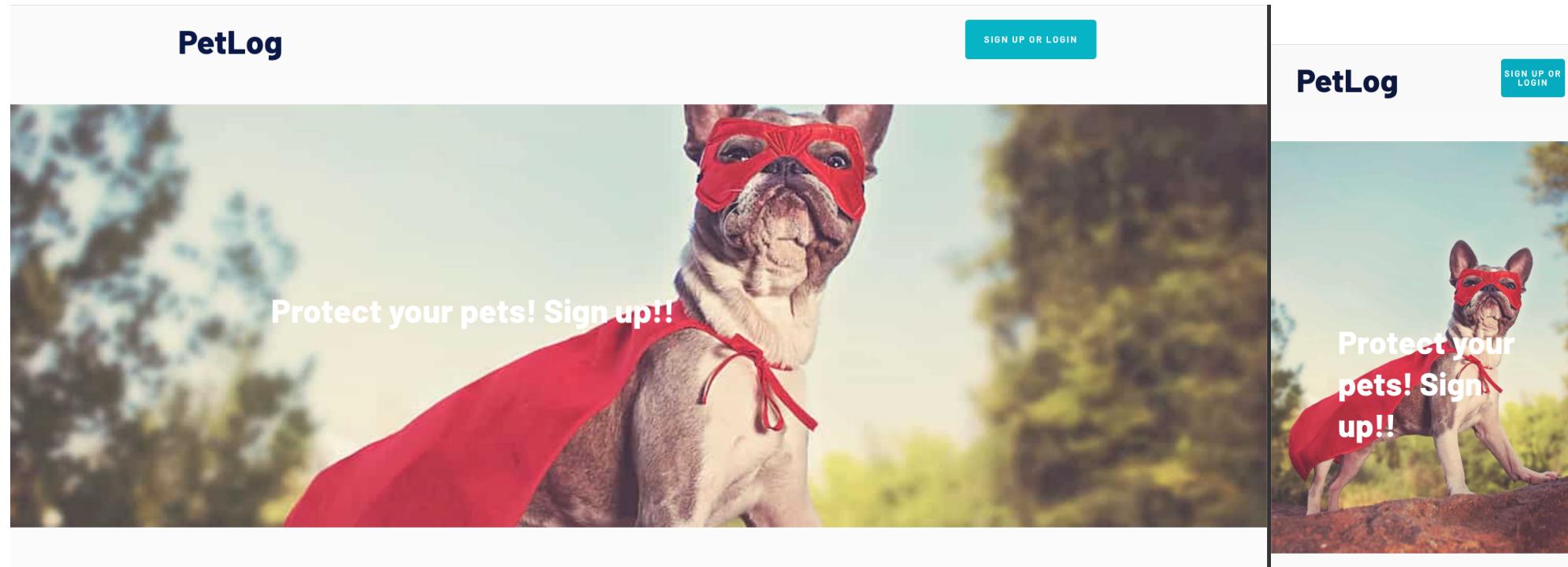
Then place the text.

- Click **Text** from the left menu to center it on the screen.
- A setting pop-up appears on the right side of the text Element, so enter the settings.
  - Put your favorite tagline in the text area at the top.
  - I say **Protect your pets!**  
**Sign up !! .**
  - Specify **H1 Heading – Light** for Style



Let's preview it.

- Preview link at the top right of the screen or shot cut (Windows: Ctrl + p , Mac: Cmd + p )



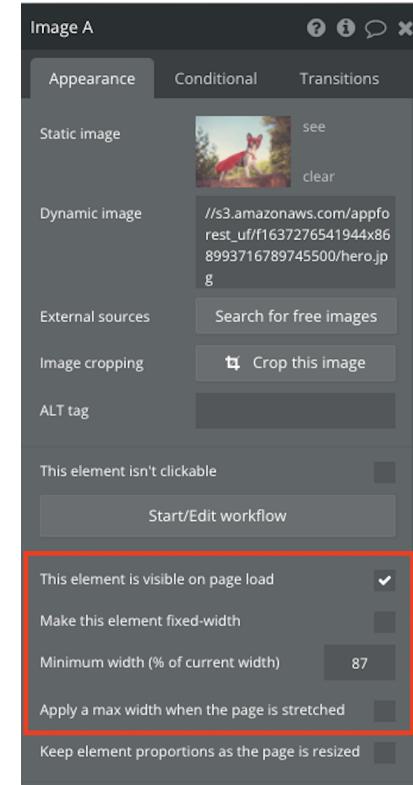
I haven't added responsive support in particular, but it makes me feel good on my own.  
This is because Bubble supports responsiveness as standard.

I will explain a little.

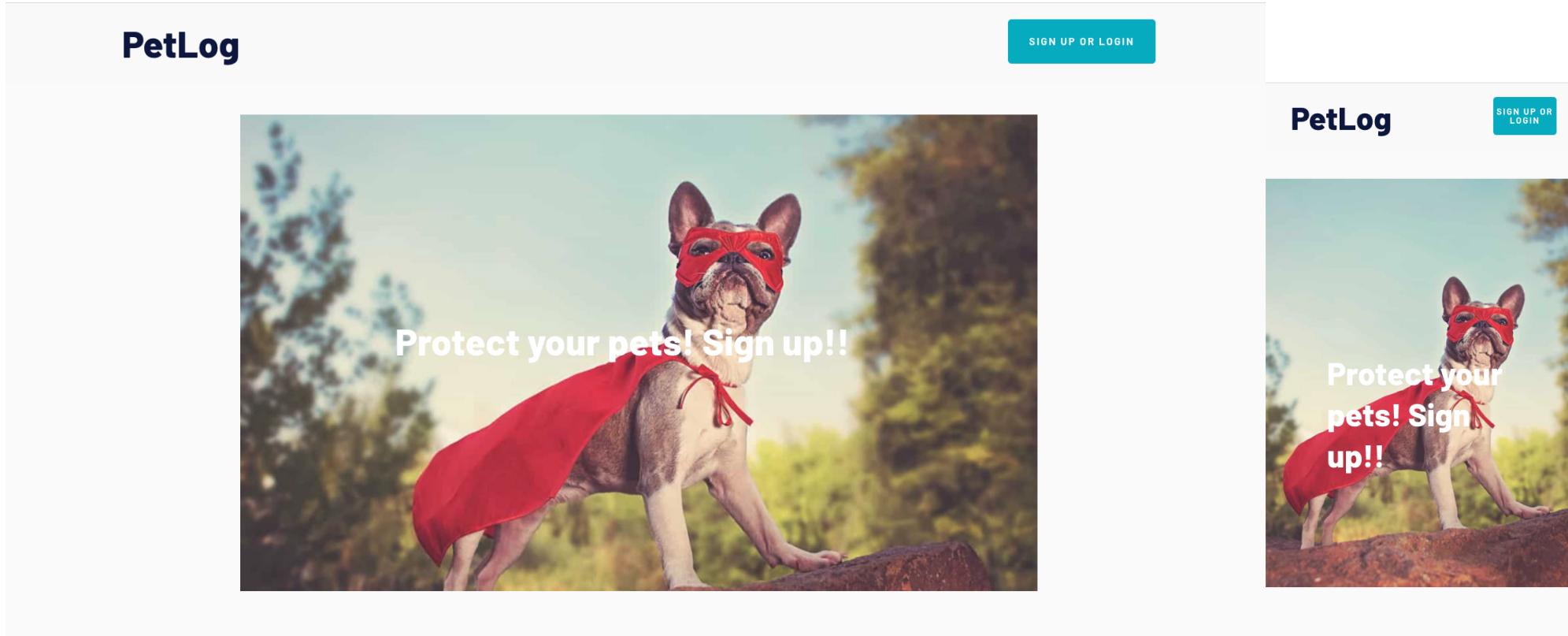
Let's take a look at the image and text settings. There is such a setting around the middle row.

- Make this element fixed width
- Minimum width
- Apply a max width when the page is stretched

Use these settings for each element and make adjustments to achieve the intended appearance. Try changing the settings and displaying.

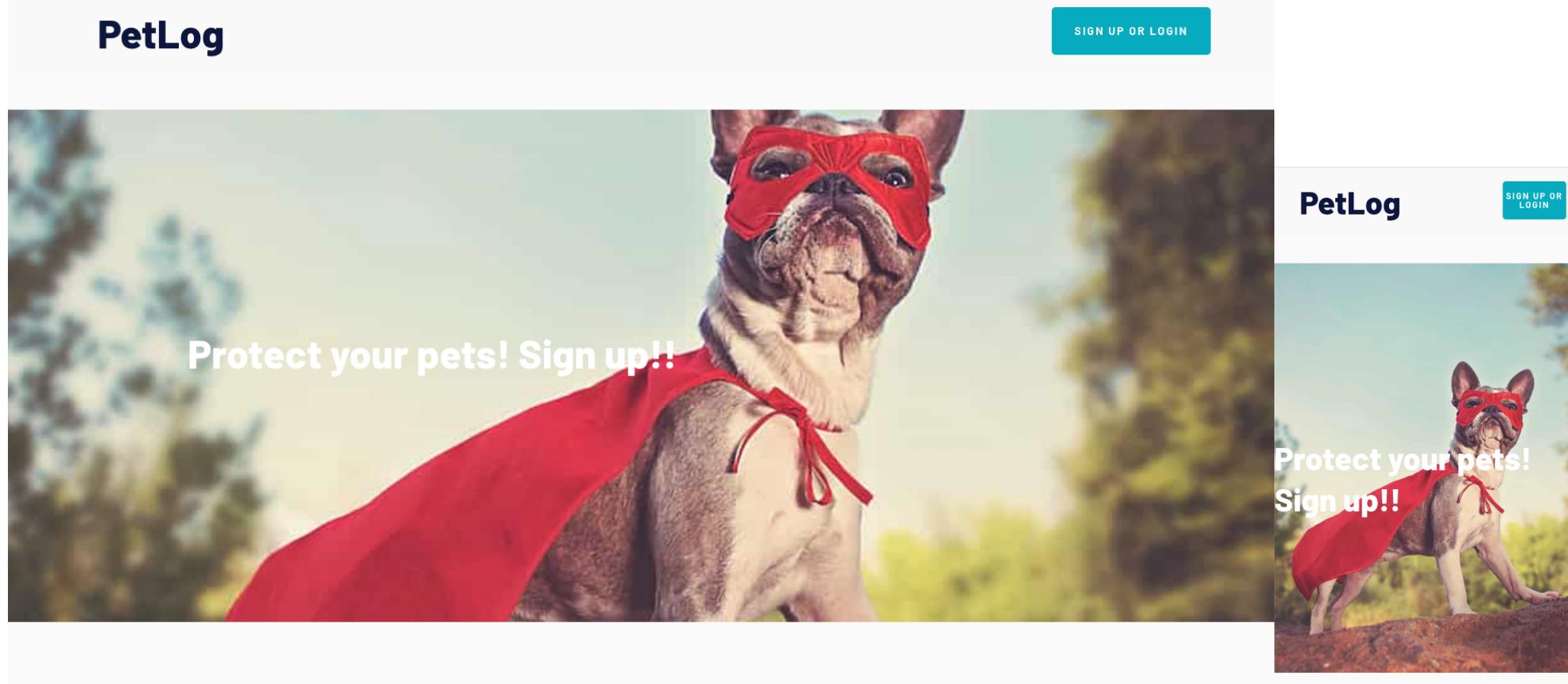


Make this element fixed width : This is the setting whether to fix the width of this element. If it is not checked, it will expand and contract according to the screen width. Let's check the image settings and preview.



The width of the image element does not change even if the screen width is increased.  
(Please uncheck it.)

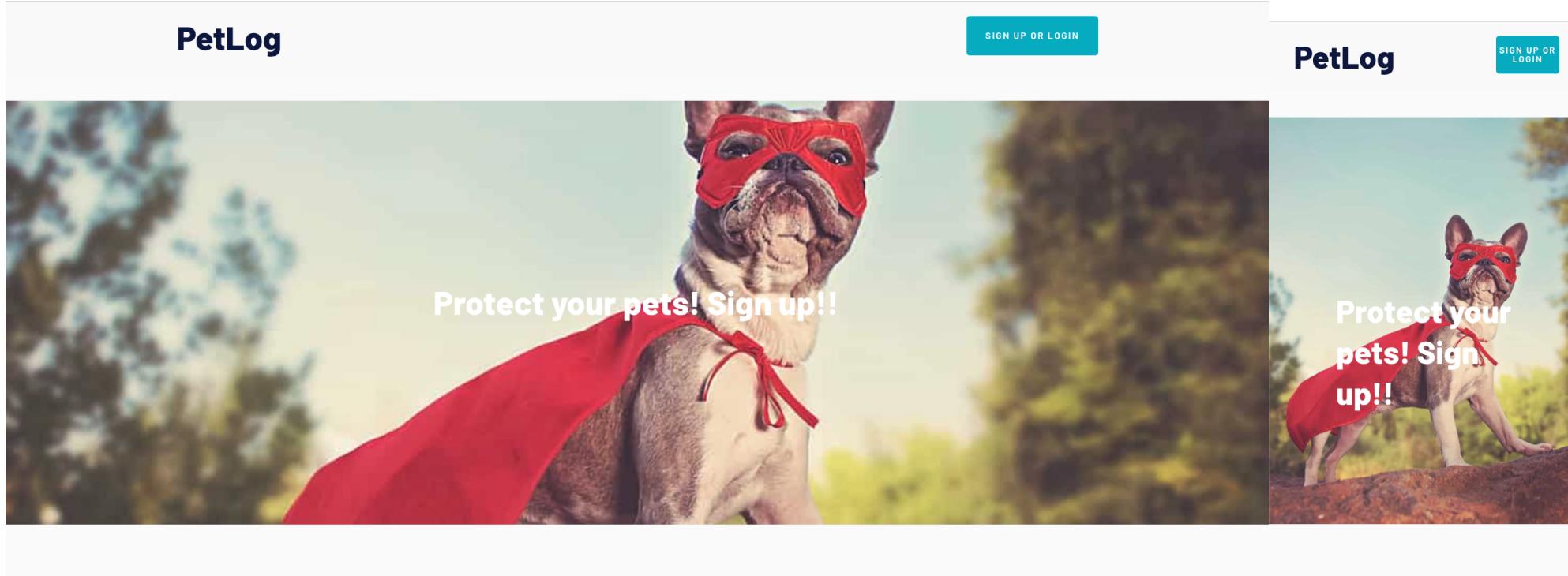
**Minimum width :** This is the minimum width of the element. As the screen width is narrowed, the element also becomes smaller, but it does not become smaller than the size specified here. Try setting it to 80% in the text settings and preview it.



Even if the screen width is reduced, the width used for text display is not as narrow as before the change. (Please return it to 20%).

Apply a max width when the page is stretched : This is the maximum width of the element. As you widen the screen width, the element will also grow, but it will not be larger than the size specified here.

Try setting the text to 100% by checking it.



If you make the screen bigger, the element will not grow.  
So, The letters no longer depend on the left.  
(Leave this setting as it is.)

Next, I will explain the arrangement of elements when the screen width is changed.

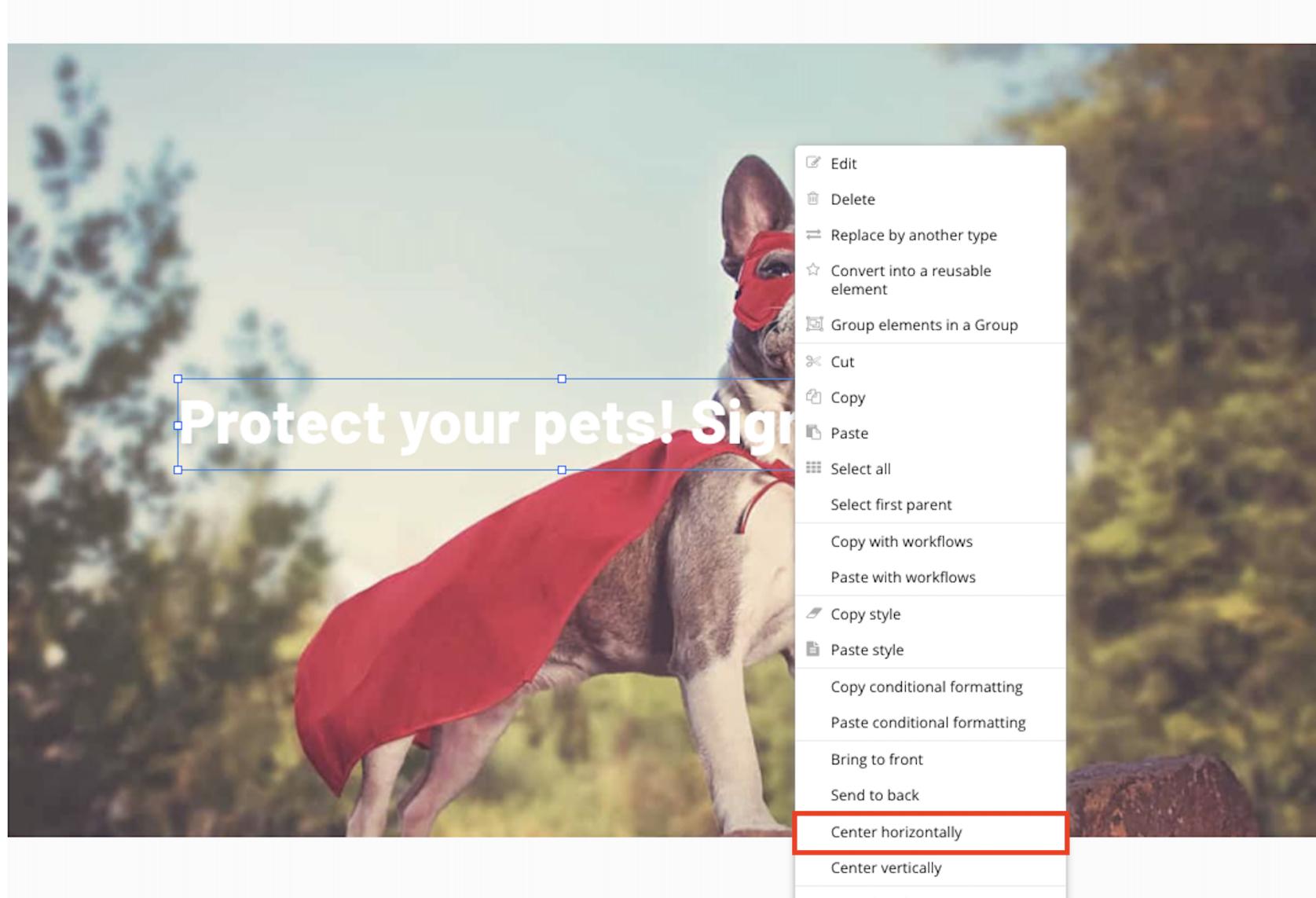
I think that the catch phrase may be shifted to the left or right depending on the person when the screen is enlarged.

The placement of the element when the screen width is extended is determined by the original relative position.

If you originally see it in the middle and shift it to the right or left even if you don't mind it, it will be noticeable when the screen gets bigger.

If you want to make sure it's in the middle, right-click (or tap with two fingers) last week and specify `Center horizontally`.

It's here.

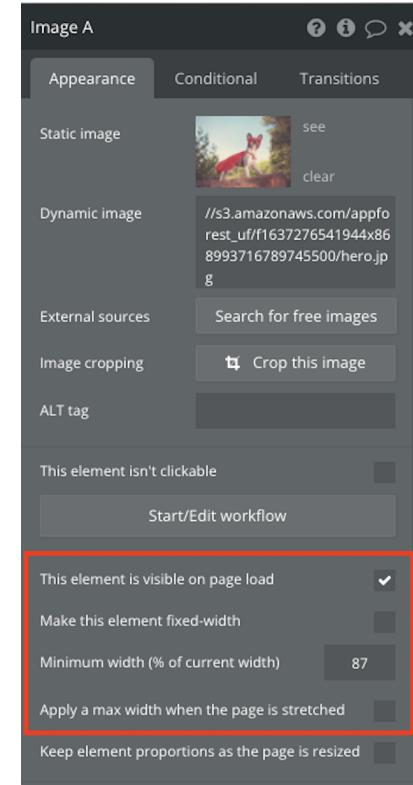


# The above is the basis of control of expansion and contraction.

You used these settings for each element and adjusted them to the intended appearance.

- Make this element fixed width
- Minimum width
- Apply a max width when the page is stretched

Also, don't forget that you need to be careful about the relative position such as centering.



# Wrap / Do not wrap, Show / Do not show

Next, we will add controls such as wrapping / not wrapping and displaying / not displaying on the details screen.

## PetLog

[LOG OUT](#)

[← Back to list](#)

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

Weight Logs

| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.5    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 5.0    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 5.0    |
| 11/19 7時 | 5.0    |

[LOG OUT](#)

[← Back to list](#)

## PetLog

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

Weight Logs

Currently, pet\_detail has elements arranged vertically regardless of the screen width,  
The screen width of the PC is not fully utilized.

**PetLog**

[LOG OUT](#)

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

[Weight Logs](#)

[← Back to list](#)

# Images and other information are displayed in separate columns.

- Select the text and image of **Image** and move it to the left
- Select from the **Name** text to the **UPDATE** button and move it to the upper right
  - Don't forget that there is an empty text box under **Gender**

The screenshot shows a user interface for a 'PetLog' application. At the top right is a teal 'SIGN UP OR LOGIN' button. The main area has a light gray header with the 'PetLog' logo. Below the header is a form with several fields:

- Image:** A placeholder text 'Current Page Pets's Image' with a small image icon.
- Name:** A placeholder text 'Current Page Pets's Name'.
- Birthday:** A placeholder text 'Current Page Pets's Birthday:f...'.
- Gender:** An empty text input field.

A large 'UPDATE' button is positioned to the right of the first three fields. At the bottom of the screen, there are two links: 'Weight Logs' and '← Back to list'. There is also a small blue square icon at the very bottom right.

# Let's preview

I don't think the placement and folding method will work.

This is because each Element determines its relative position and wraps around.

**PetLog**

LOG OUT

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

UPDATE

[Weight Logs](#)

[← Back to list](#)

**PetLog**

LOG OUT

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

UPDATE

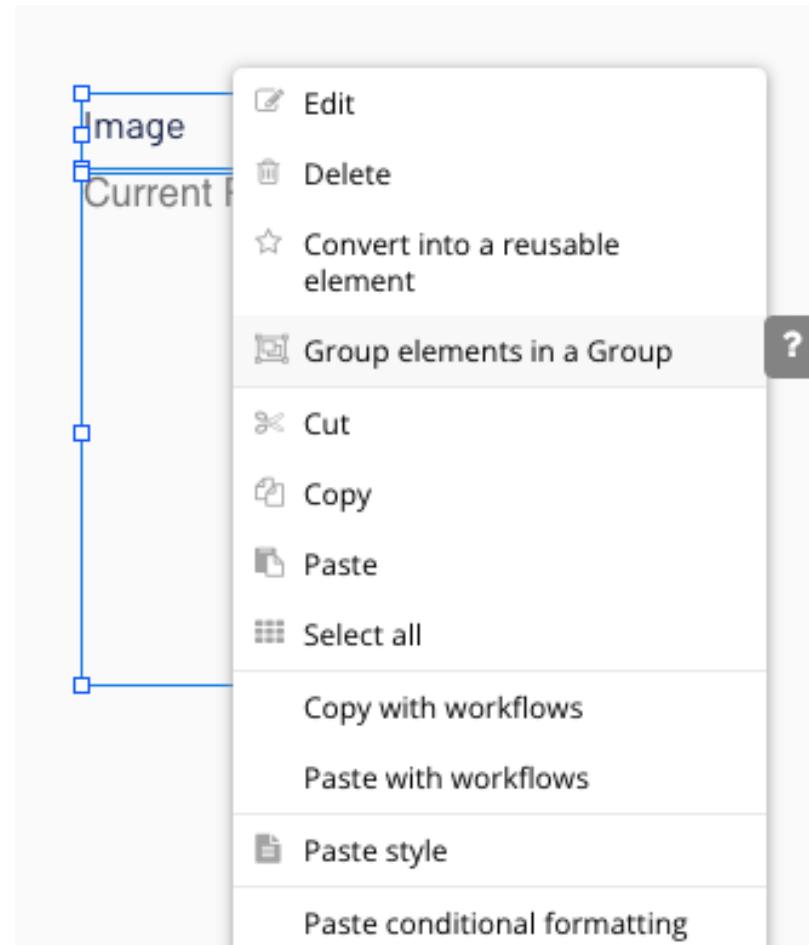
## **TIPS**

When previewing the detail screen many times, it is convenient to display it by reloading the browser without having to reselect it on the list screen.

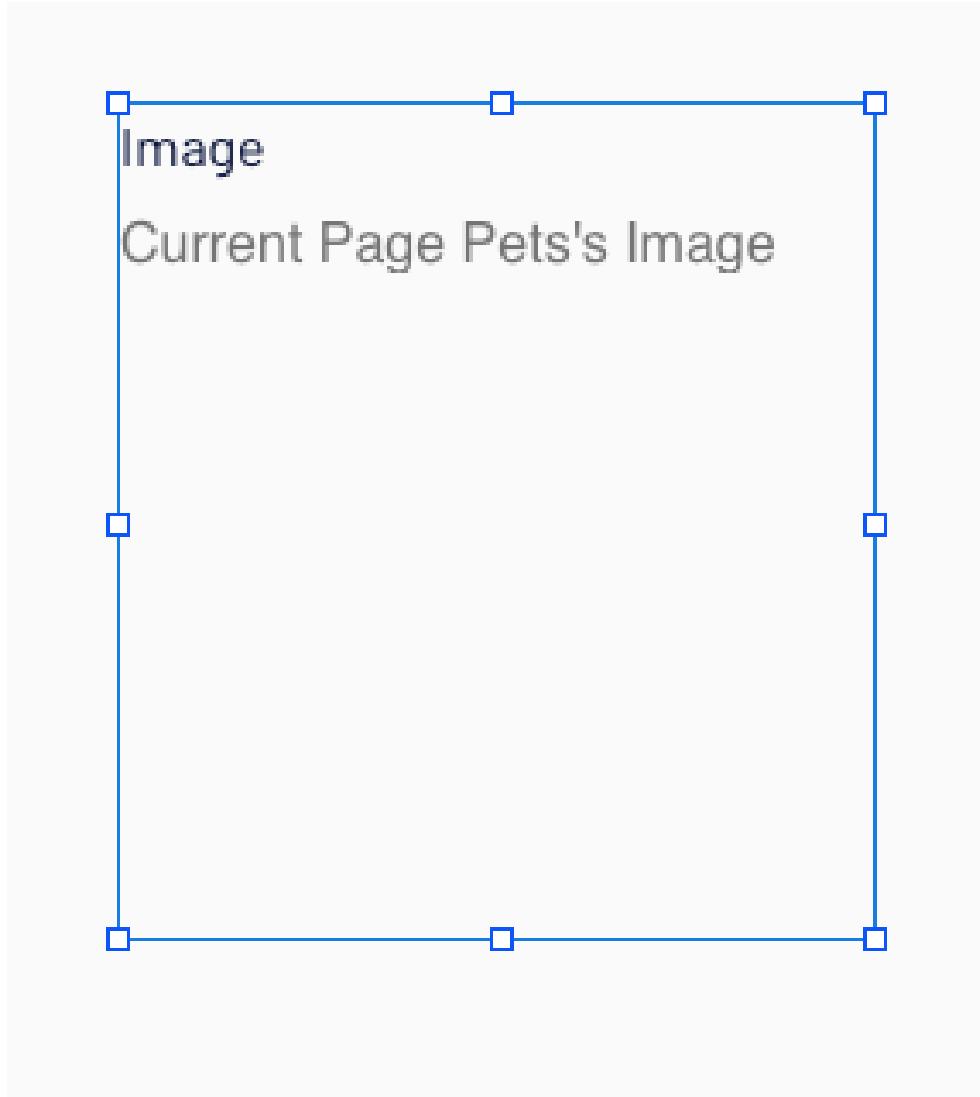
# Create a group

You will be able to control it well by creating a group for each group that has been folded and arranged.

- Select the text and image of **Image**, right-click (two-finger tap) and select **Group elements in a Group**
- The size of the group fits perfectly to the element, but let's expand it a little to make it easier to choose later.
- If you want to select more than one, hold down **Shift** and click.

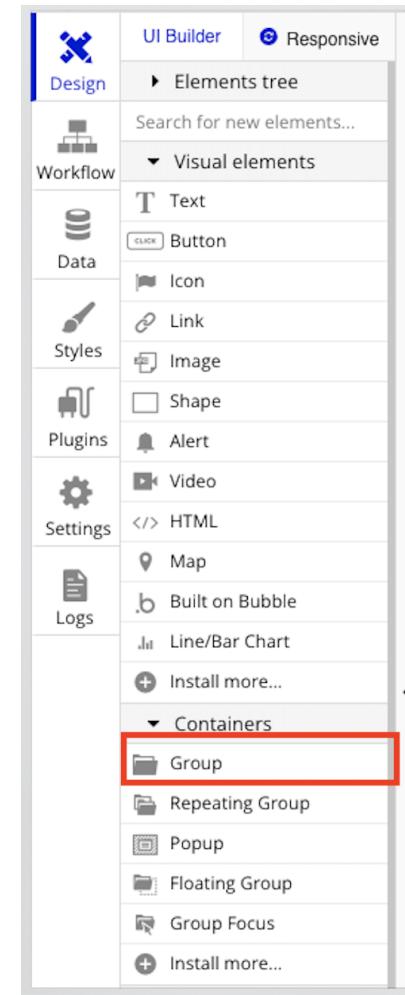


There will be a square that surrounds both the `Image` text and the image.

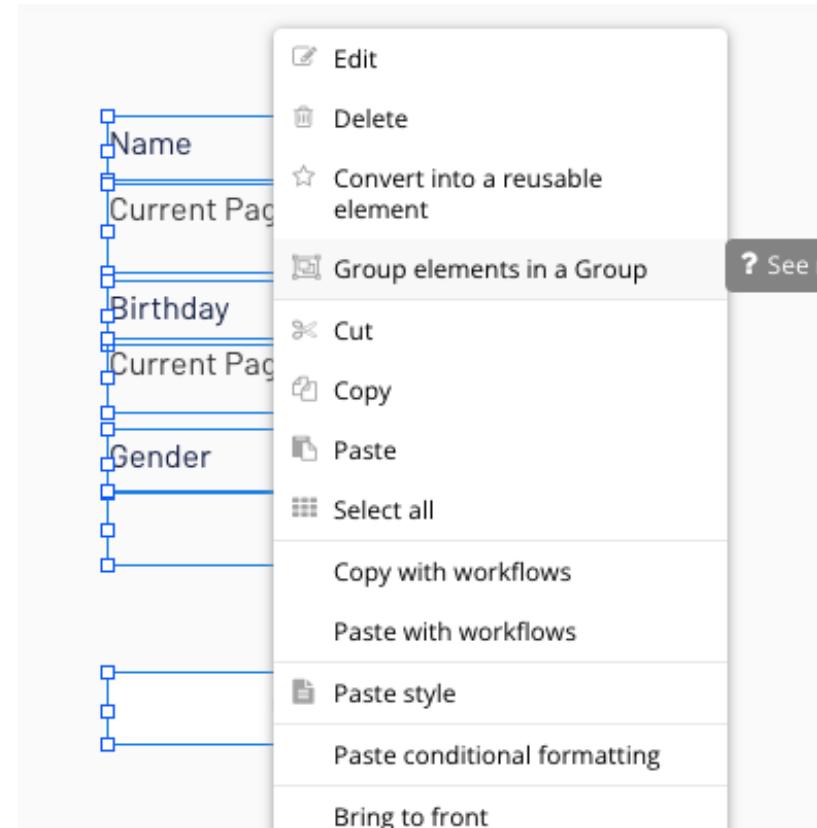


By the way, you can also select Group from the menu on the left and place it. However, after placing the Group, you have to reposition the elements in it.

If you want to put the placed elements in the Group, the above method is easy.



- Select from the `Name` text to the `UPDATE` button, right-click (two-finger tap) and select `Group elements in a Group`
  - Don't forget that there is an empty text box under `Gender`
- The size of the group fits perfectly to the element, but let's expand it a little to make it easier to choose later.
- If you want to select more than one, hold down `Shift` and click.



There will be a square that surrounds the Name text to the UPDATE button.

The image shows a user interface for updating pet information. It consists of several input fields and a central button. The fields are arranged vertically:

- Name**: A text input field containing "Current Page Pet's Name".
- Birthday**: A text input field containing "Current Page Pet's Birthday:f...".
- Gender**: A text input field.

Below these fields is a horizontal button labeled **UPDATE**.

A blue rectangular selection box surrounds the entire row of fields (Name, Birthday, Gender) and extends down to the **UPDATE** button. The corners of this box are rounded, matching the style of the **UPDATE** button's border.

# Let's preview

The arrangement is still subtle, but I think that the wrapping has come to be folded together.

**PetLog**

LOG OUT

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

UPDATE

[Weight Logs](#)

[← Back to list](#)

**PetLog**

LOG OUT

Image



Name  
pochi

Birthday  
2019年11月18日

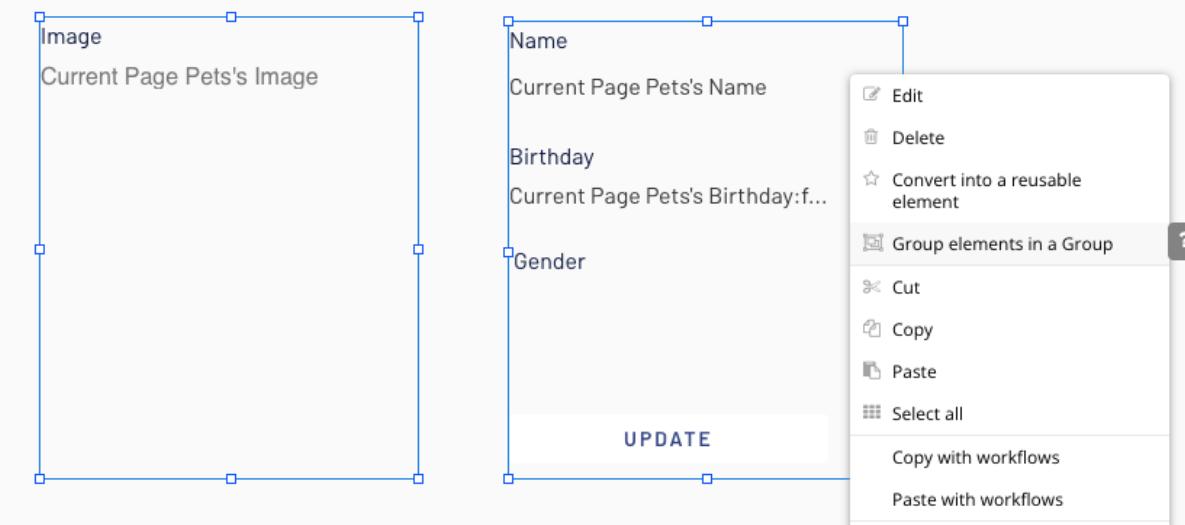
Gender  
女の子

UPDATE

I want to put the images and names together in the center, and I want to keep them from separating even if the screen width expands, so I also want to control these as a group.

Therefore, the group of images and the group such as the name are also surrounded by the group.

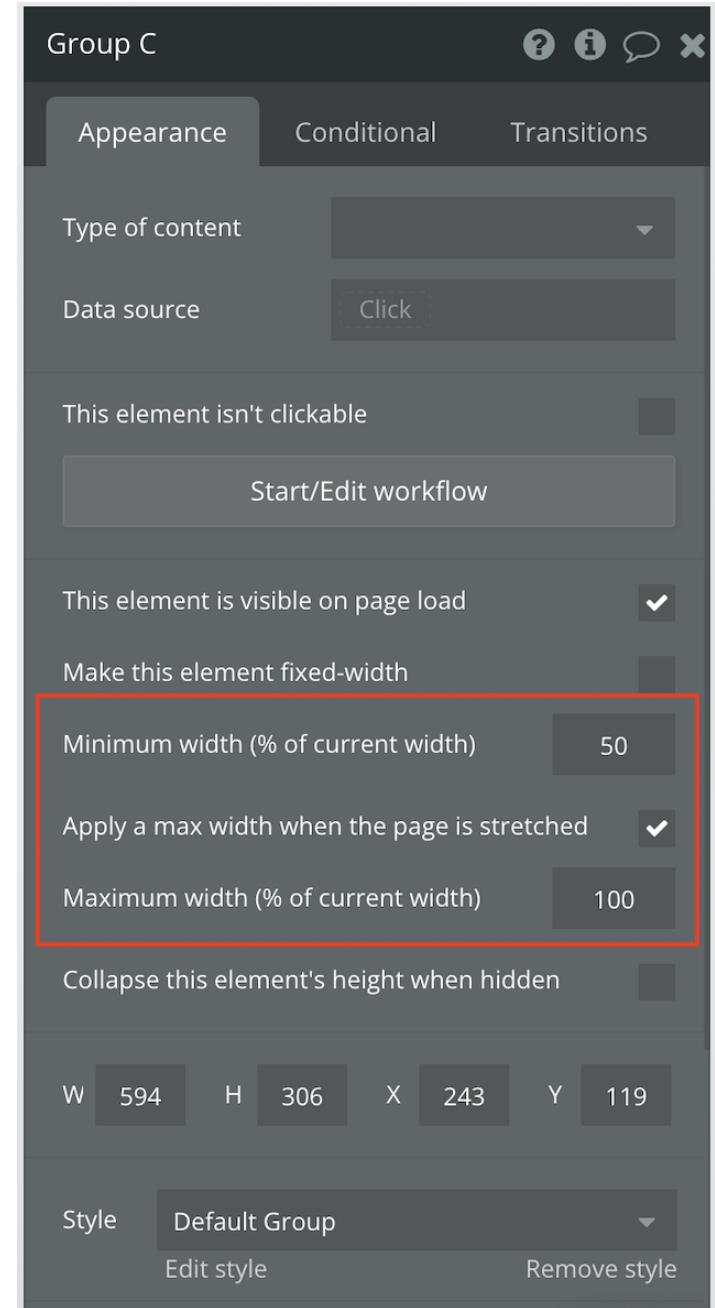
Select group 2 while holding down Shift and right-click (two-finger tap) to specify Group element in a Group .



Using the knowledge I learned when controlling the expansion / contraction here,

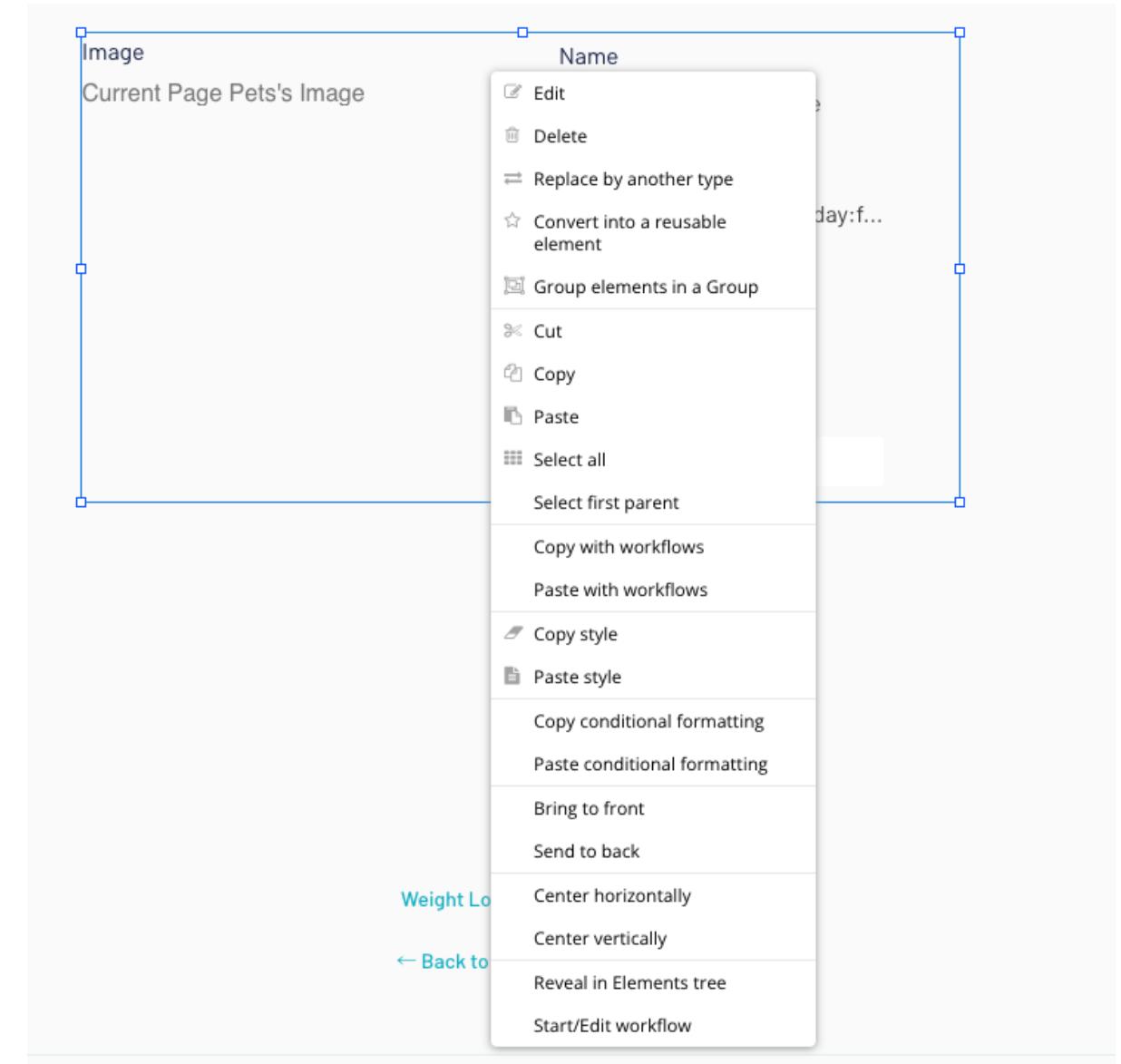
Set it to the intended placement.

- Specify 50 for Minimum width .
- Select the whole group and check Apply a max width when the page is stretched
- Specify 100 for Maximum width .



In addition, select the enclosing group,  
right-click and specify center  
horizontally .

Now, as a group, even if the screen  
width changes, it will be placed in the  
center of the screen.



# Let's preview

it is a good feeling.

**PetLog**

[LOG OUT](#)

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

[Weight Logs](#)

[← Back to list](#)

**PetLog**

[LOG OUT](#)

Image



Name  
pochi

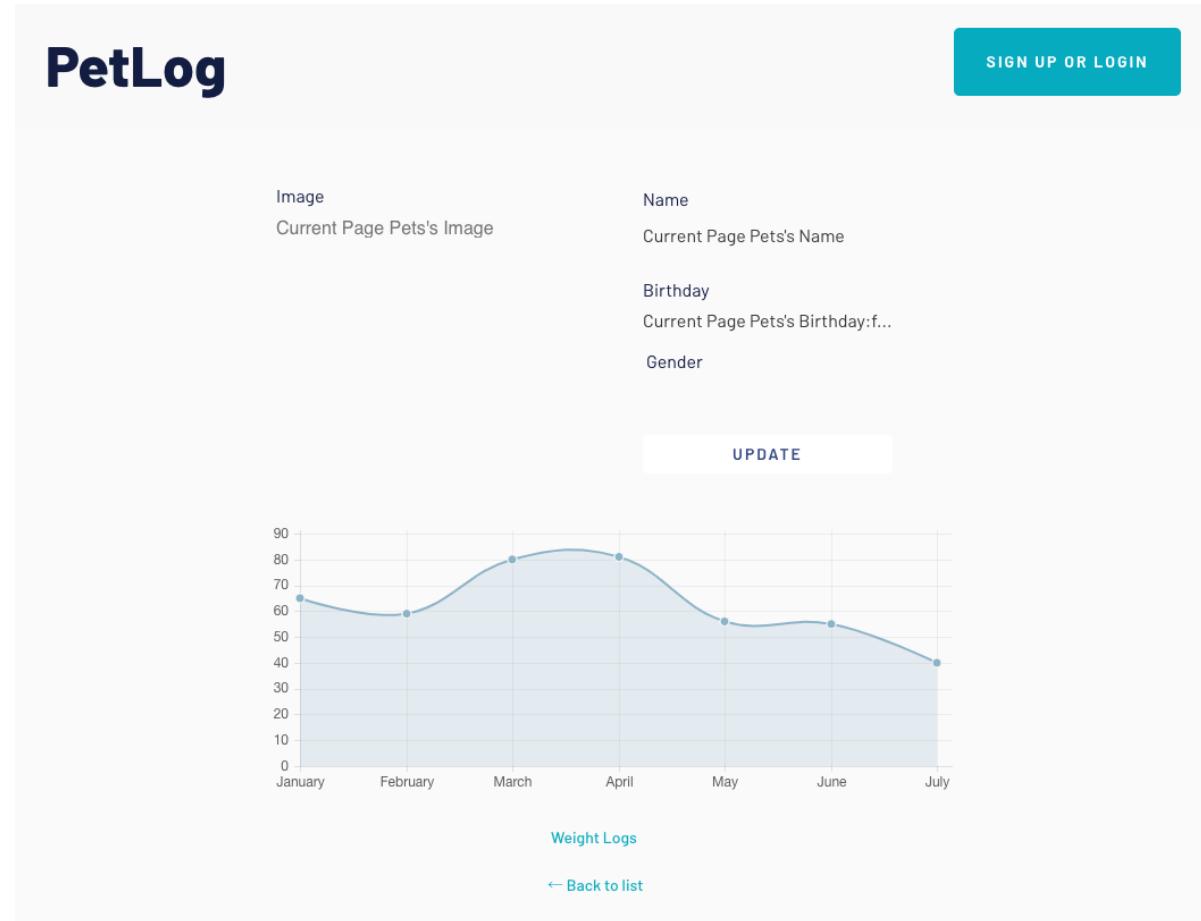
Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

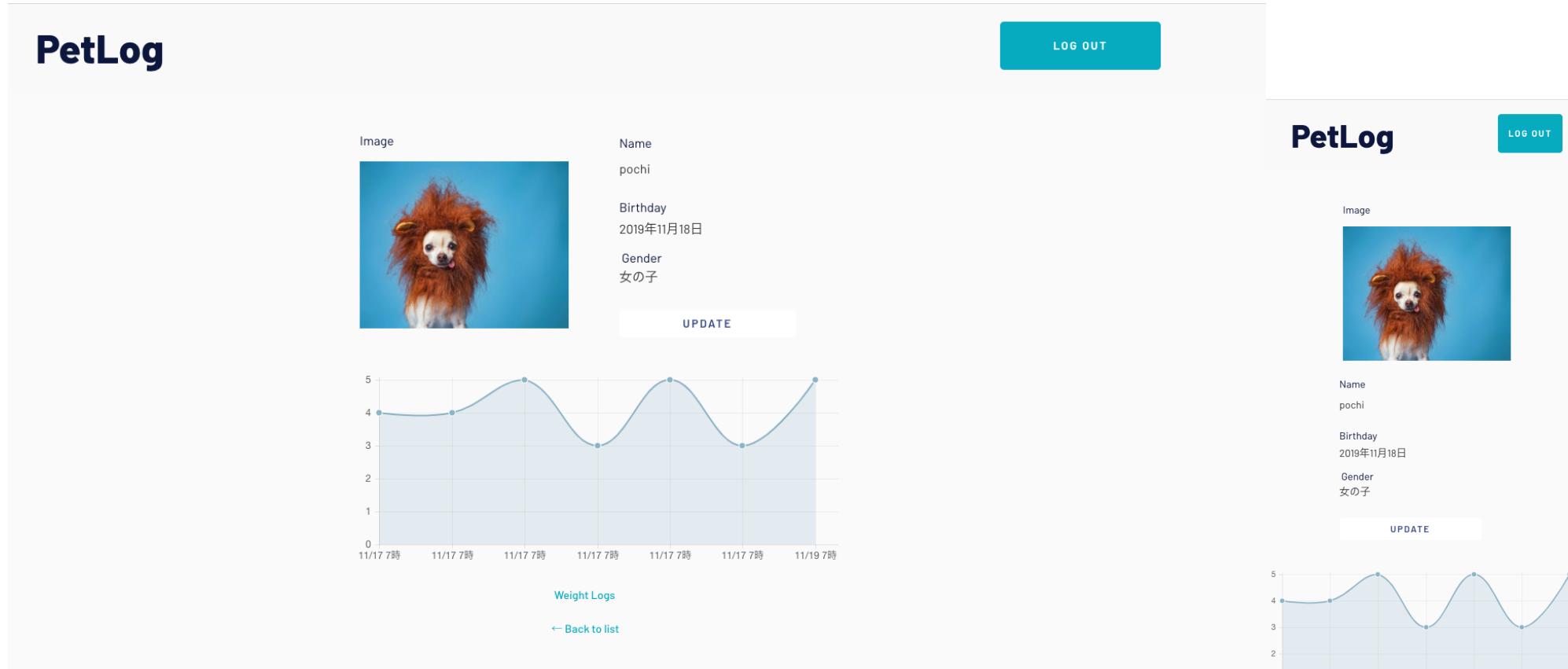
# Next, I'll bring you a weight graph

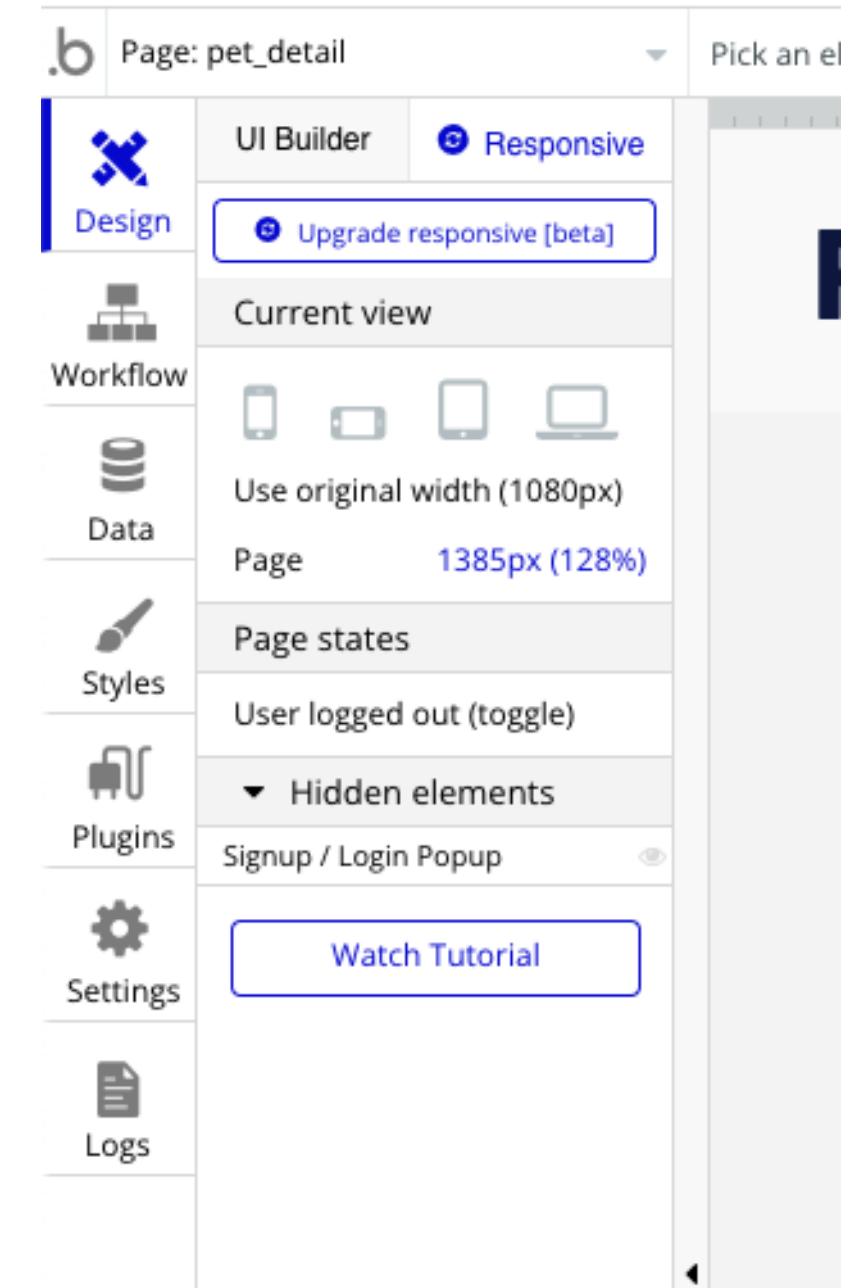
- On the pet\_weight\_register screen, click the graph to copy it.
- Paste on the pet\_detail screen
- Place it under the image or name and spread it sideways
- Right-click and center horizontally



# Let's preview

It's cramped to display graphs on one screen with a smartphone.





## Opens a view for responsive web design

Click on the **Responsive** part of the left menu

A screen with a scale is displayed at the top of the screen

Page: pet\_detail

Pick an element... Edit Help Saved

**Design** UI Builder Responsive Upgrade responsive (beta)

Current view

Workflow

Data

Styles

Plugins

Settings

Logs

SIGN UP OR LOGIN

# PetLog

Image Current Page Pets's Image

Name Current Page Pets's Name

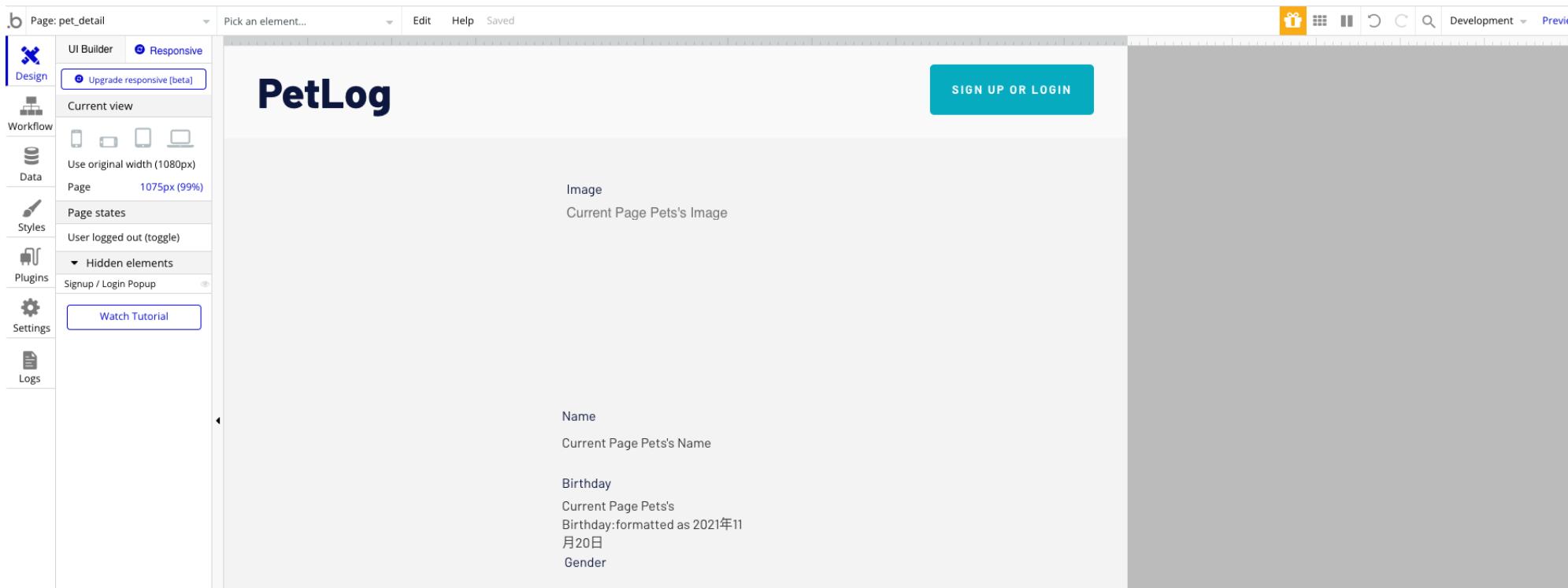
Birthday Current Page Pets's Birthday:formatted as 2021年11月20日

Gender

UPDATE

| Time | Value |
|------|-------|
| 1    | 65    |
| 2    | 60    |
| 3    | 55    |
| 4    | 75    |
| 5    | 80    |
| 6    | 82    |
| 7    | 80    |
| 8    | 55    |
| 9    | 52    |
| 10   | 40    |

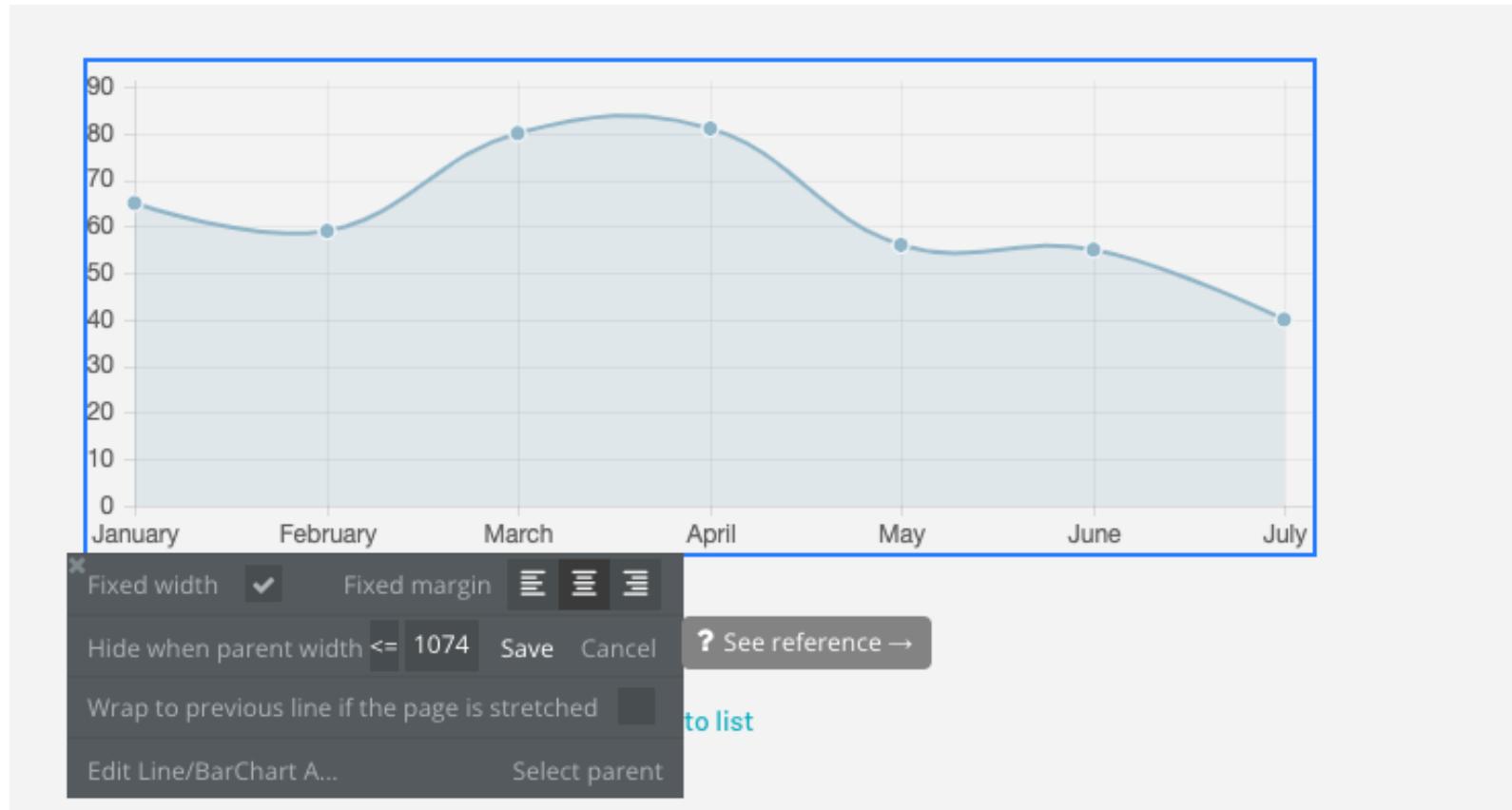
You can pinch the edge of the scale to reduce the screen width in a pseudo manner.



The graph is not displayed at the timing when the name etc. wraps

- Slowly move the width of the screen and stop when the group such as the name wraps
- Click the graph in that state
- Click `Add hiding rule`
- Click `Save`
  - Since the scale is stopped at the timing of turning back, the width is a condition.

Like this



- Check if the scale switches as intended by increasing or decreasing the scale again.
  - If it doesn't work as intended, delete the rule once and try again.

# Let's preview

Hooray

**PetLog**

[LOG OUT](#)

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)



[Weight Logs](#)

[← Back to list](#)

**PetLog**

[LOG OUT](#)



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

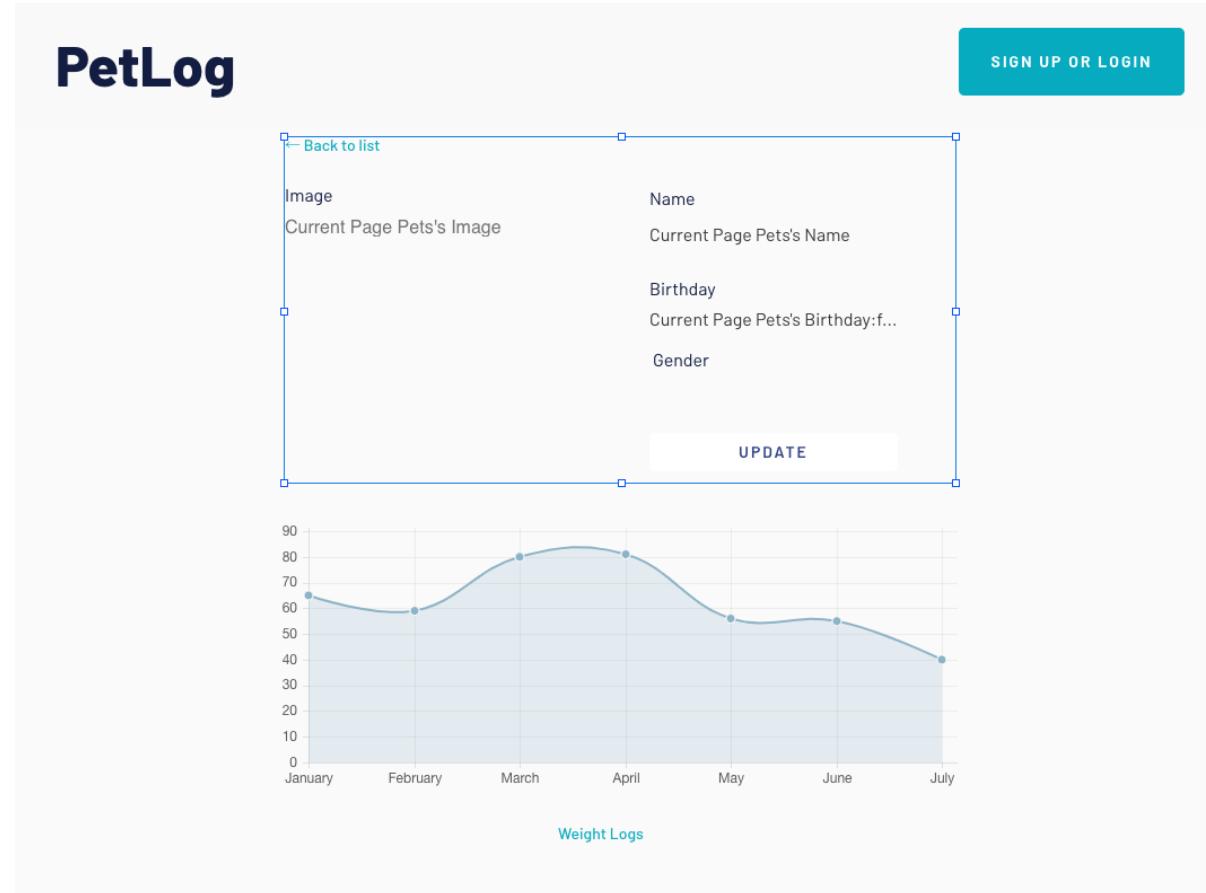
[UPDATE](#)

[Weight Logs](#)

[← Back to list](#)

It's a fine adjustment, but if the back link is at the bottom, it's difficult to use on a smartphone, so I'll bring it up.

- Expand the group that surrounds the whole up a little
- Place the link closer to the top left of the group
- By doing this, even when you expand the screen, the `Max Width` applied to the whole group will work and it will not be too close to the edge.



# Let's preview

## PetLog

[← Back to list](#)

**LOG OUT**

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

**UPDATE**

Weight Logs

| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/19 7時 | 4.8    |

## PetLog

[← Back to list](#)

**LOG OUT**

Image

Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

**UPDATE**

Weight Logs

The above is the control of wrapping / not wrapping and displaying / not displaying.  
It was also a review of extending / shortening.

**Take a break**

Do you have any questions so far?

**Let's use Style**

## Let's use Style

- So far, I have used the style that Bubble has prepared as standard.
- In the actual product, we will draw and apply the design concept that suits the product.
- From here, I will explain how to change the style.

## **There are three main ways to apply Style.**

- Editing an existing style
- Apply styles individually
- Add a new style

Let's do it in order

## #Edit an existing style

I would like to change the existing style to change the color of the buttons and links.

I want to make it red to match the image of Inu-chan Man.

### PetLog

[← Back to list](#)

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

[UPDATE](#)

Weight Logs



| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 3.8    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.5    |
| 11/19 7時 | 4.8    |

# Let's use the color palette

In Bubble, frequently used colors can be set in the palette in the application settings.

- Select **General** in the tab at the top of the screen, **Settings >** on the left menu.
- Move to the lower **Color palette**

The screenshot shows the Bubble application interface. At the top, there is a header with a logo, the page title "Page: pet\_detail", and navigation links "Edit" and "Help". Below the header is a left sidebar with icons for "Design", "Workflow", "Data", "Styles", "Plugins", "Settings" (which is highlighted with a blue border), and "Logs". The main content area has a tab bar with "App plan", "General" (which is selected and highlighted in grey), "Domain / email", "Languages", "SEO / metatags", "API", "Collaboration", "Sub apps", and "Versions". Under the "General" tab, there is a "Custom fonts" section containing a font named "knewave" with an "Add font" button. Below this is a "Color palette" section with a heading "You can pick here 7 colors that are displayed in the color picker for an easier design process." It lists seven color swatches with their hex codes: #03B4C6, #3A4D8F, #324380, #091747, #999999, #D62755, and #FFFFFF. A "Reset palette" link is also present. At the bottom of the page, there is a "Design Import" section with instructions for importing Figma files.

I'm thinking of changing the buttons and links with the red `# D62755` that was originally set.

As I will explain in detail later, I also want a little dark red when I hover the button, so I will set a little dark red here as well. I add the `# B32246` red to the palette.

Everyone, try adding a base color and a slightly darker color.

#### Color palette

You can pick here 7 colors that are displayed in the color picker for an easier design process.



#### Design Import

Now let's set the style. Open **Styles** on the left menu.

Let's take a quick look first. There are some style settings that I have used so far.

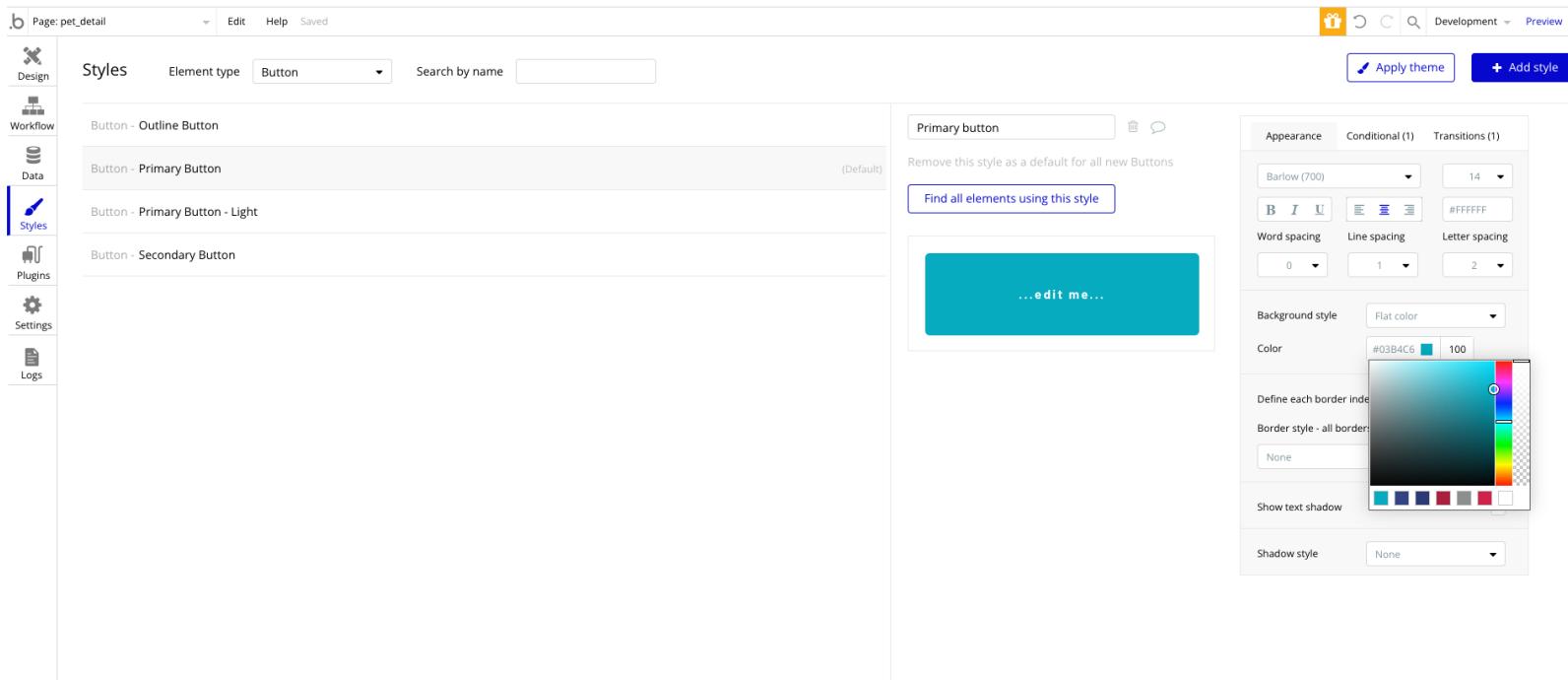
The screenshot shows the Figma interface with the 'Styles' tab selected in the sidebar. The main area displays a list of styles categorized under 'Text'. A specific style, 'H1 Heading - Dark', is selected and shown in a preview box with the text '...edit me...'. The right side of the screen shows the detailed properties for this style, including:

- Appearance:** HTML tag for this element (SEO) is set to 'h1'. Font is 'Barlow (800)' at size 50, with bold (B), italic (I), underline (U), and strikethrough (S) options available.
- Conditional:** No conditions are defined.
- Transitions:** No transitions are defined.
- Text Options:** Word spacing, Line spacing, and Letter spacing are set to 0, 1.3, and 0 respectively.
- Vertical Alignment:** Center the text vertically is checked.
- Background:** Background style is set to 'None'.
- Border:** Define each border independently is checked, with 'Border style - all borders' set to 'None' and 'Roundness' at 0.
- Padding:** Padding is set to 0 for both vertical (V) and horizontal (H).
- Shadow:** Show text shadow is checked, with 'Shadow style' set to 'None'.

The sidebar also includes tabs for 'Design', 'Workflow', 'Data', 'Plugins', 'Settings', and 'Logs'.

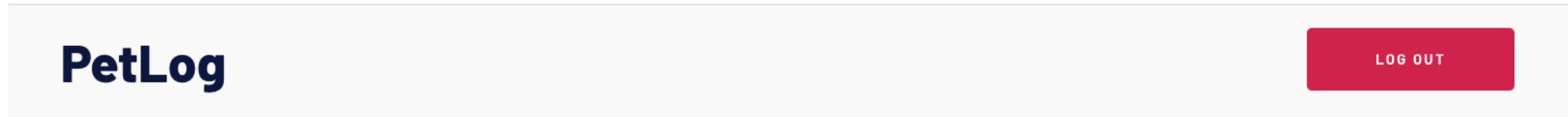
# Change the color of the button.

- Select **Button** from the Element type at the top of the screen
- Select **Primary Button**
- Click Color on the right side of the screen
- Select your own basic color from the color palette

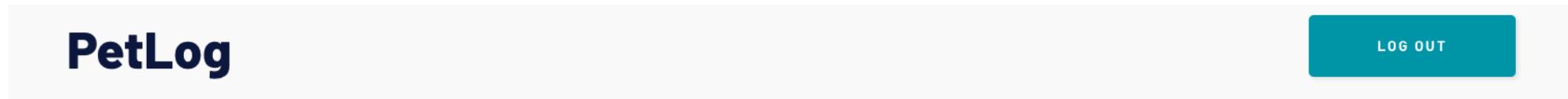


## Let's preview

The button color is now red.

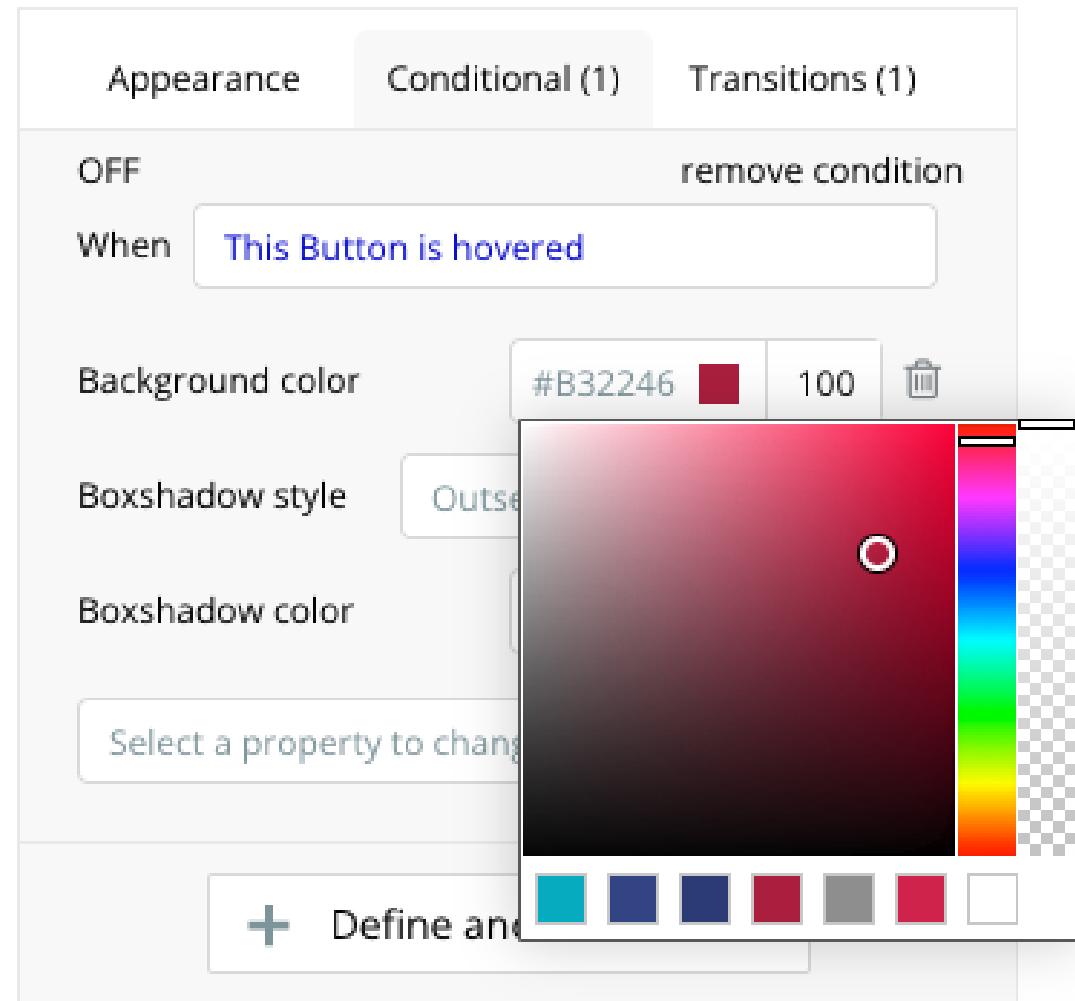


However, when you mouse over it, it turns green (blue?).



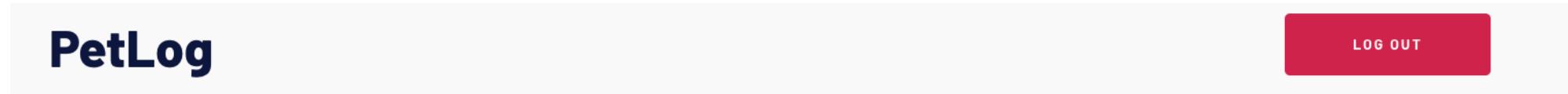
This is because the color when the mouse is over is specified separately.

- Return to Styles Primary button settings
- Select Condition on the right side of the screen
  - The style that will be applied if certain conditions are met is specified here (more on this later).
  - You have specified that the color will change when you hover.
- Specify this color that is a little darker than the base color you decided earlier.

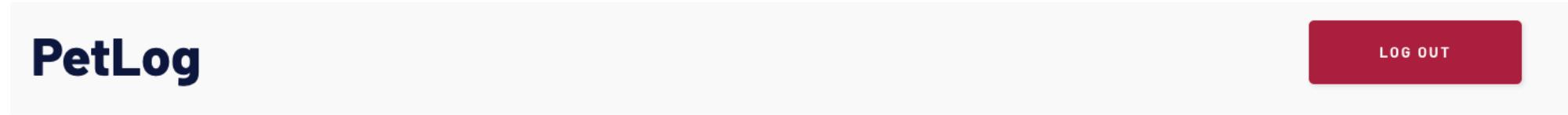


## Let's preview

No hover



Hover



it is a good feeling.

Similarly, change the font color of **Primary Button** to the base color.

Styles    Element type: **Button**    Search by name:

**Primary Button - Light** #D62728 (Default)

Make this style the default for all new Buttons

[Find all elements using this style](#)

...edit me...

Appearance    Conditional (1)    Transitions (1)

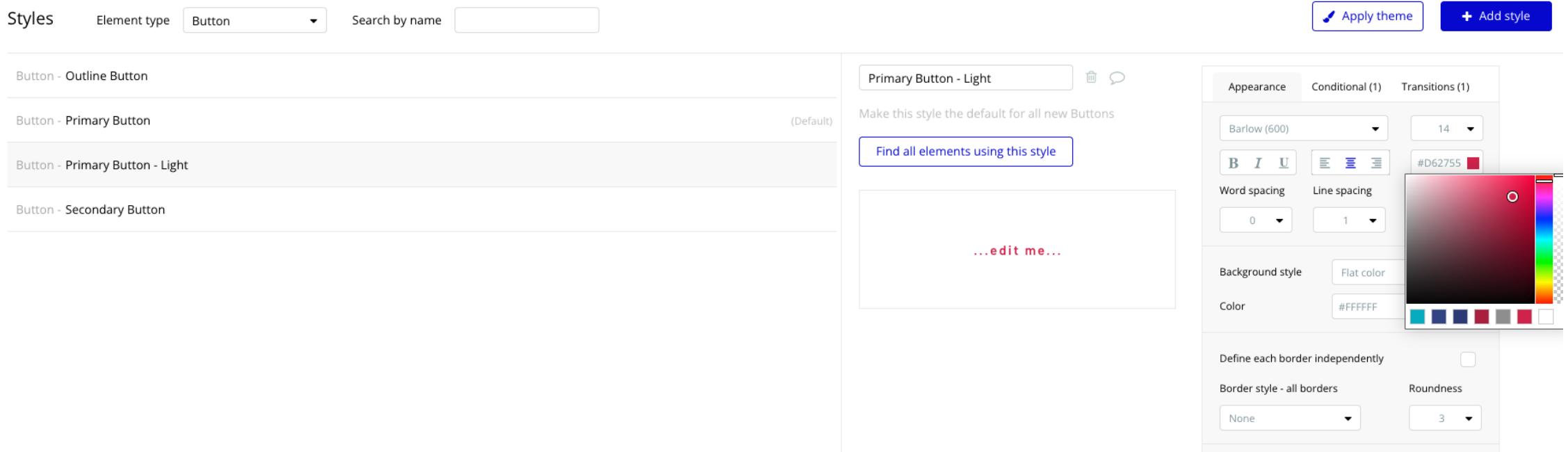
Font: Barlow (600)    Size: 14pt    Weight: **B** *I* U

Word spacing: 0pt    Line spacing: 1pt

Background style: Flat color    Color: #FFFFFF

Color palette: #D62728 #2CA02C #1F77B4 #8C564B #E69138 #A1A1A1 #F7A5C2

Define each border independently  Border style - all borders: None    Roundness: 3px



In addition, the font color of Standard Link will be changed.

The screenshot shows a style editor interface with the following elements:

- Header:** Styles, Element type (Link), Search by name, Apply theme, Add style.
- Left sidebar:** Link - Button Link, Link - Footer Link, Link - Standard Link (Default).
- Center panel:** Standard Link style card with options to Remove, Edit, or Find all elements using this style. A note says "...edit me...".
- Right panel:** Appearance settings including:
  - Show an icon instead of text (unchecked).
  - Type: Barlow (500), Size: 14, Font color: #D62755.
  - Font styles: B, I, U.
  - Text alignment: Word spacing (0), Line spacing (1), Letter spacing (0).
  - Vertical text alignment: Center the text vertically (unchecked).

# Let's preview

**PetLog**

[← Back to list](#)

**Image**



**Name**  
pochi

**Birthday**  
2019年11月18日

**Gender**  
女の子

**UPDATE**

**Weight Logs**



| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.2    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/19 7時 | 4.8    |

There are basic colors in various places.

# Next, let's specify the style individually

I want to match the header logo with the basic color and make the font a little more cute.

## PetLog

[← Back to list](#)

Image



Name  
pochi

Birthday  
2019年11月18日

Gender  
女の子

**UPDATE**

Weight Logs



| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.5    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.5    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.5    |
| 11/19 7時 | 4.8    |

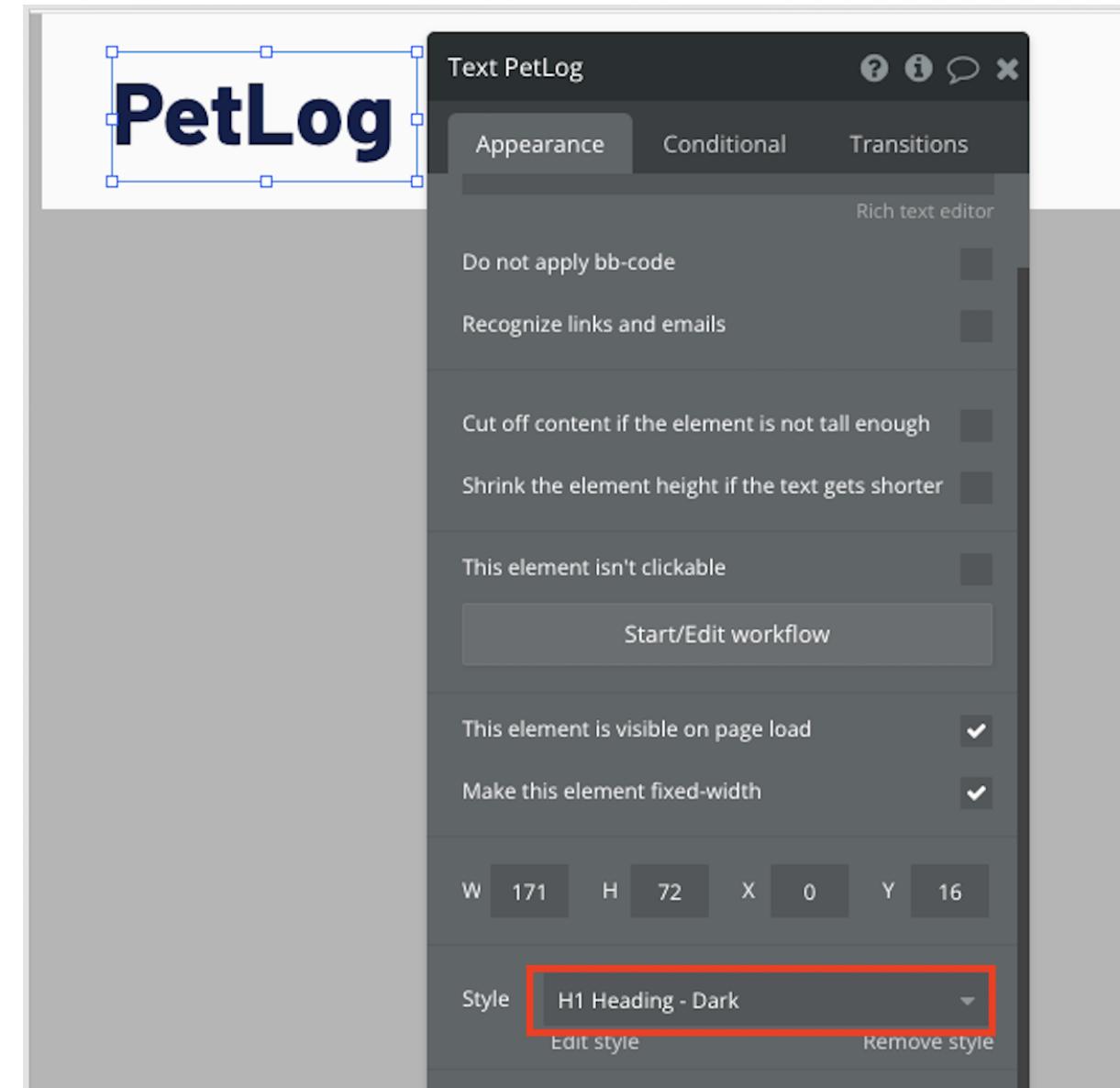
**LOG OUT**

b Open the menu to the right of the logo and select Header

The screenshot shows the Bluebeam interface with the following elements:

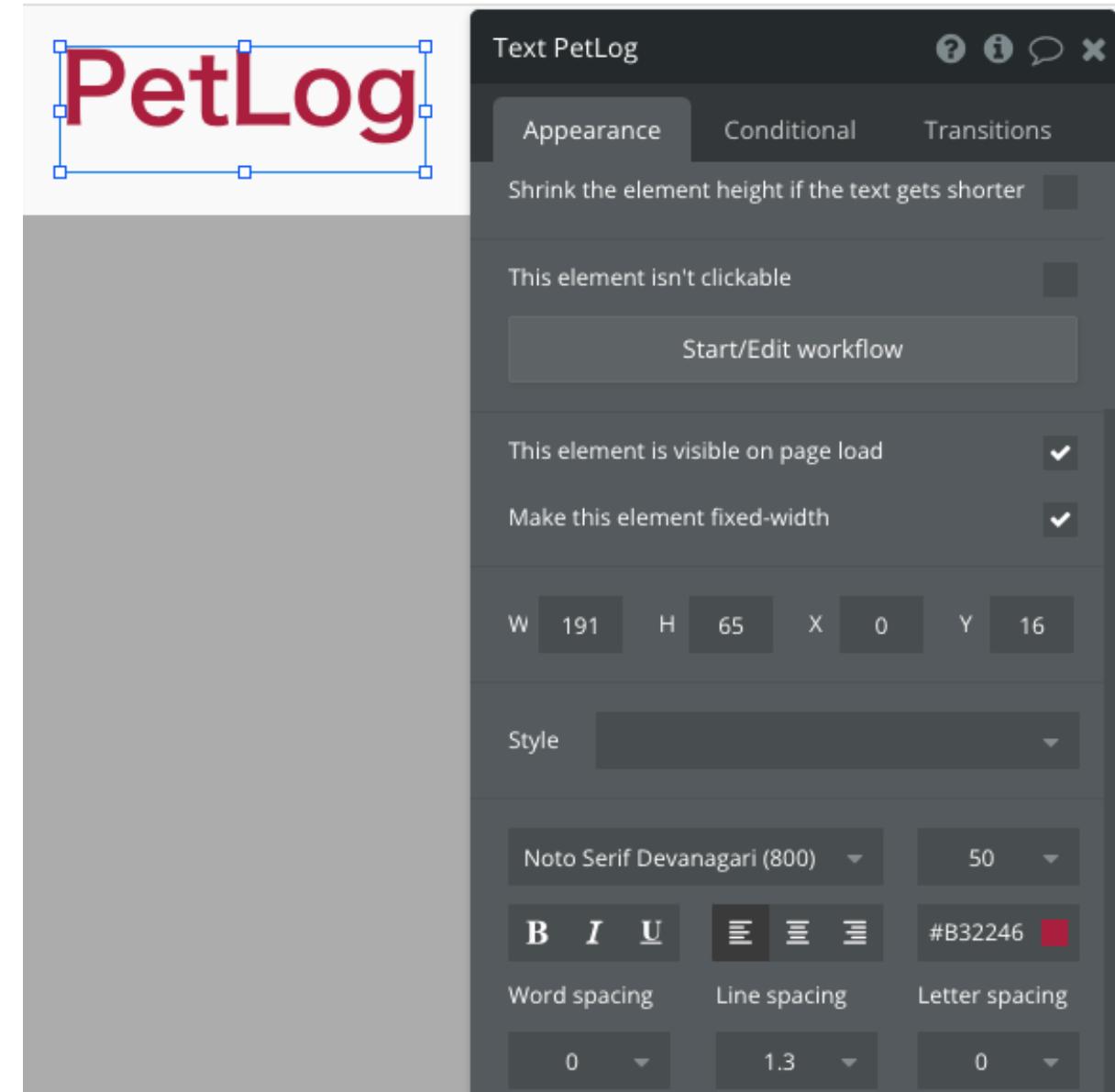
- Top Bar:** Search bar (Search a page or a reusable...), Pick an element..., Edit, Help, Saved.
- Left Sidebar:** Shows sections like 'Design', 'Work', and 'Data'. Under 'Work', there are items: index, pet\_list, pet\_update, reset\_pw, and Add a new page... . Under 'Data', there are Footer and Signup / Login Popup.
- Main Content Area:**
  - Pages Section:** A grid of pages with icons for edit, preview, and delete. The pages listed are: index, pet\_detail, pet\_register, pet\_weight\_register, 404.
  - Reusable elements Section:** A grid of reusable elements with icons for edit, preview, and delete. The elements listed are: Header, Footer, Signup / Login Popup.

- Double-click on the logo to open the settings
- Move to the **Style** part of the setting interruption
- Click **Remove style** near the bottom right of the pull-down  
-It will be possible to specify individually instead of applying the defined Style.



## Specify your favorite style

- I used the font color red, which is a slightly darker base color that I put in the palette.
- I like the font Noto Serif Devanagari (800), so specify it.
- If you change the font, the logo may be cut off, so please adjust the width appropriately.



# Let's preview

It has changed.

## PetLog

[← Back to list](#)

**Image**



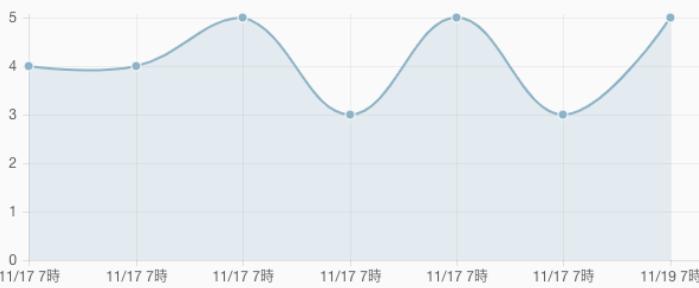
**Name**  
pochi

**Birthday**  
2019年11月18日

**Gender**  
女の子

**UPDATE**

**Weight Logs**



# Next, let's add a new style

I'm worried that the label and the content are the same style and difficult to distinguish, so I'm going to make a style for the label.

## PetLog

[← Back to list](#)

**Image**



**Name**  
pochi

**Birthday**  
2019年11月18日

**Gender**  
女の子

**UPDATE**

Weight Logs

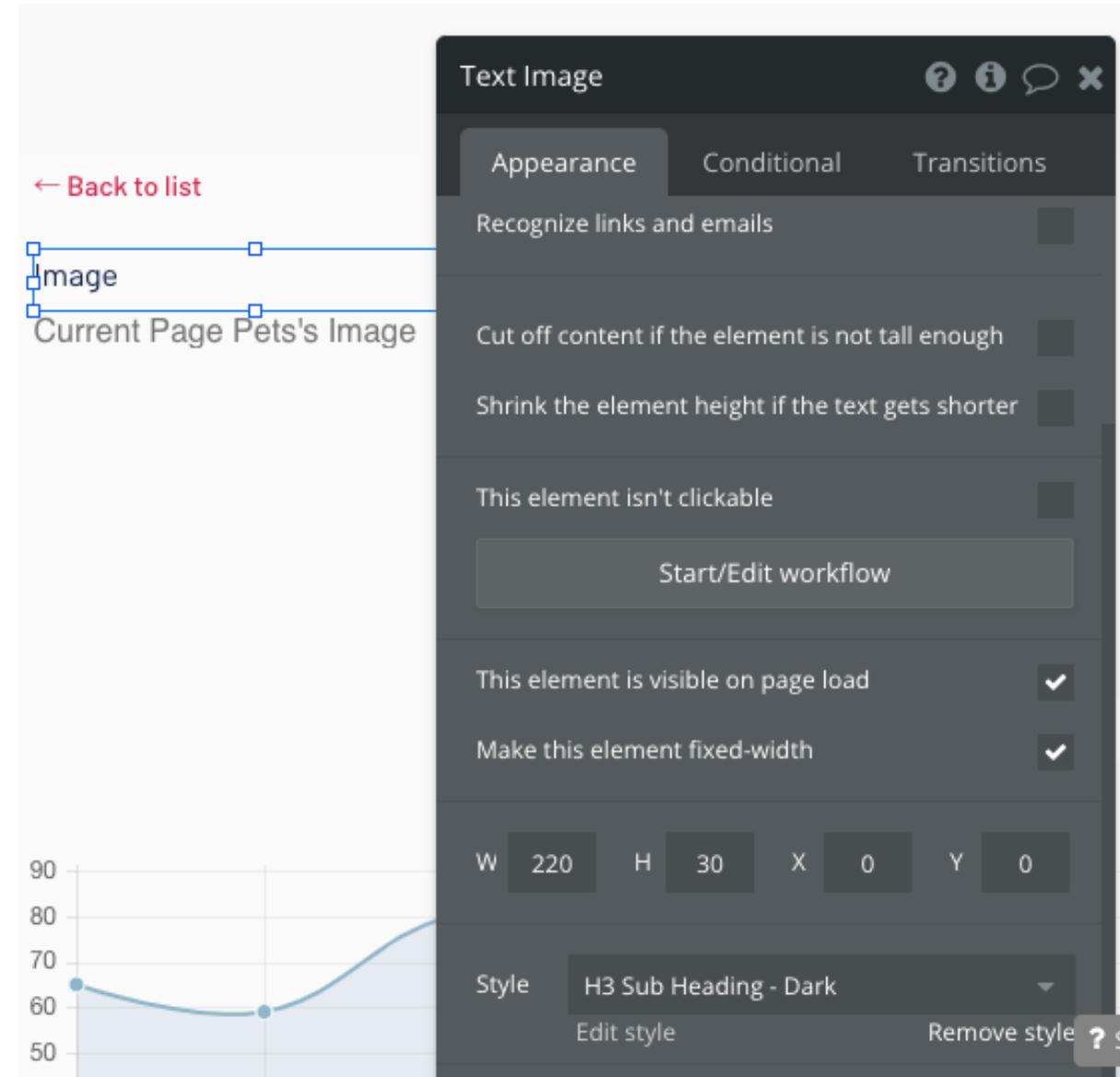


| Date     | Weight |
|----------|--------|
| 11/17 7時 | 4.0    |
| 11/17 7時 | 3.8    |
| 11/17 7時 | 4.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.8    |
| 11/17 7時 | 3.0    |
| 11/17 7時 | 4.9    |

**LOG OUT**

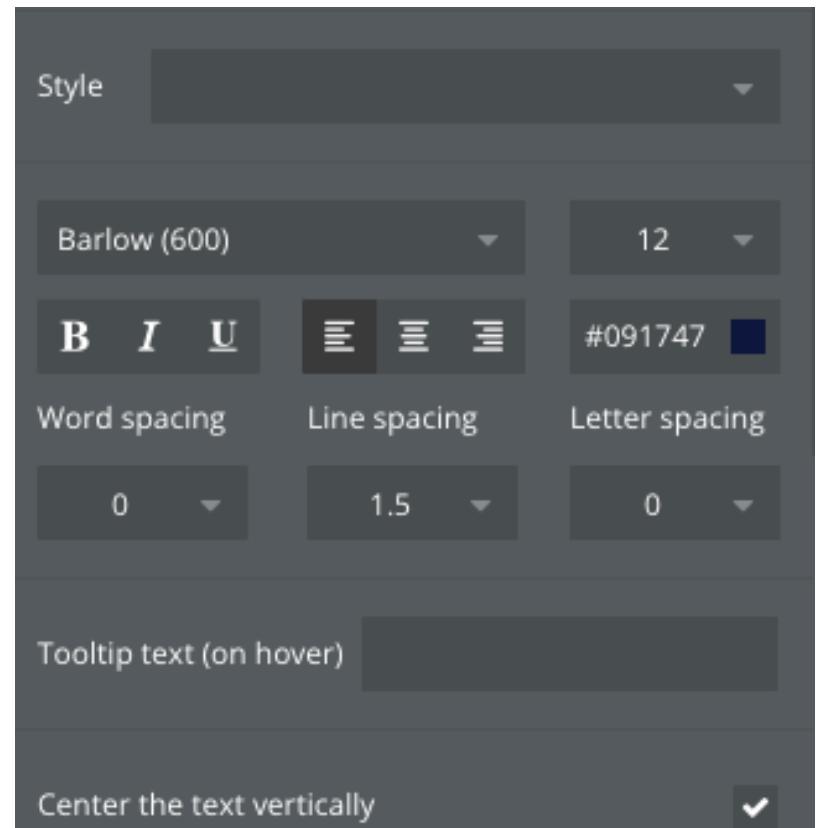
First, specify the style individually.

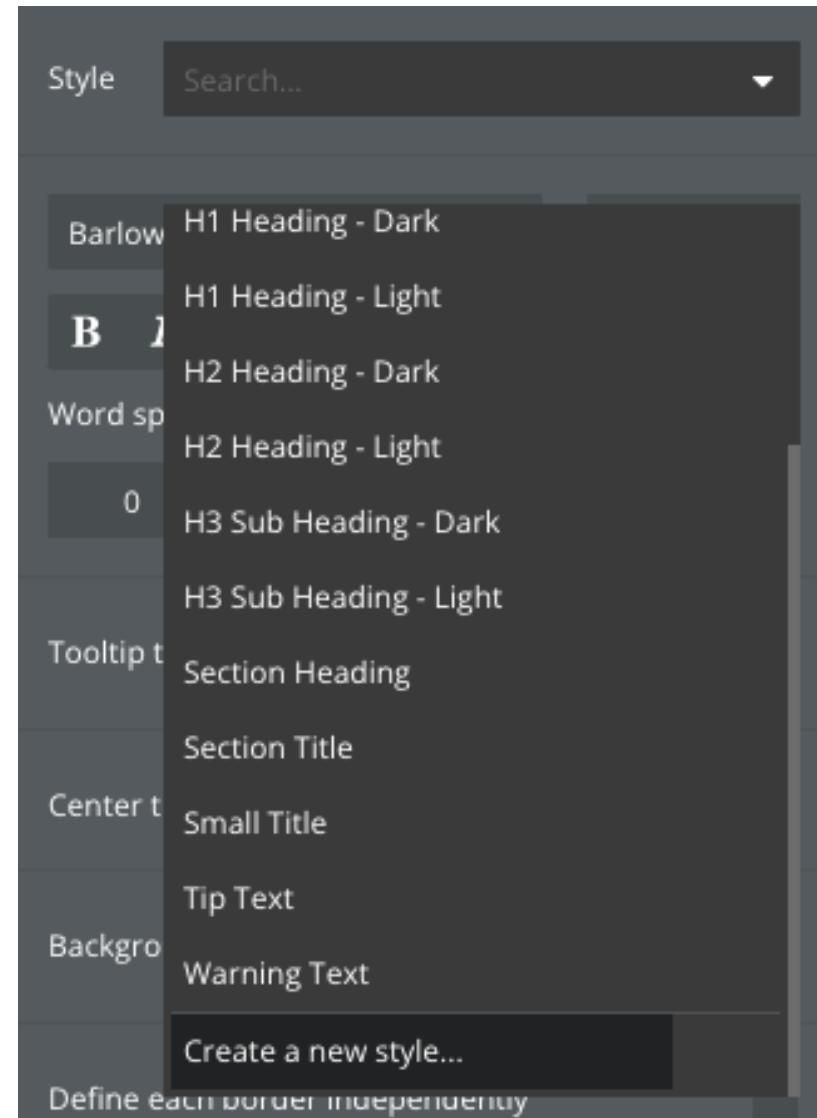
- Open pet\_detail and double-click on the **Image** text to open the settings
- Click **Remove style** at the bottom right of the pull-down of **Style**



Make the following settings

- Font is Barlow (600)
- Font size is 12
- Check Center the text vertically

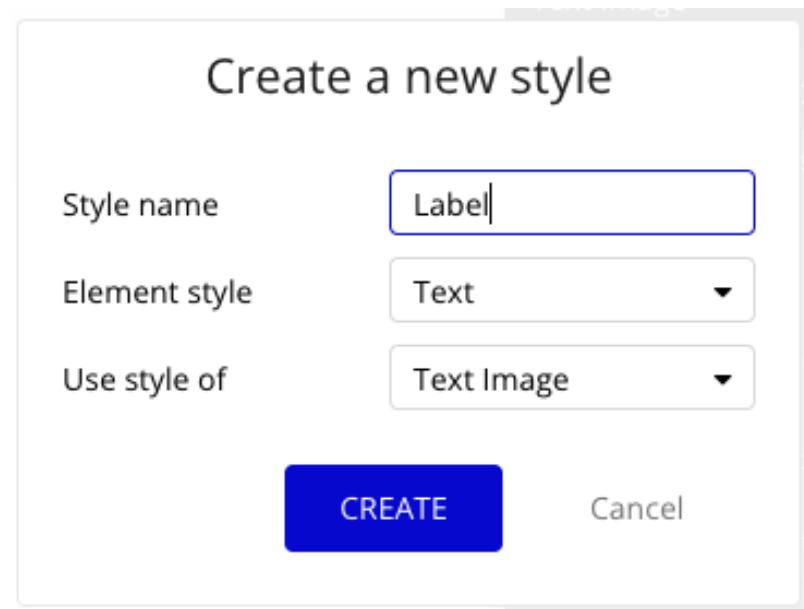




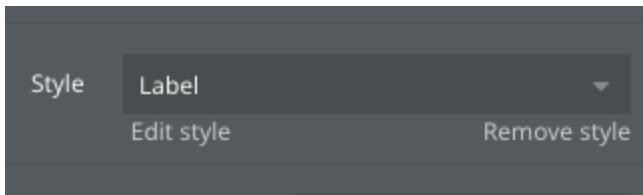
Then define the specified individual styles as a common style.

- Open the **Style** pull-down in the **Image** settings.
- Click **Create a new style ..** at the bottom

- Enter **Label** in the Style name
- The Element style remains **Text** to indicate that it is the style of the text Element.
- Use style of remains **Text Image** and creates a style as the source of **Text Image**



Label should be specified for the style.



Instead of defining individually specified styles as a common style  
You can define the style first, but you can define the style individually.  
It is better to set the specified one as a common style  
It is easy to do because you can make it while checking the image in the design view.

Now let's apply the defined style to other labels.

- pet\_detail: Name, Birthday, Gender
- pet\_register: Image, Name, Birthday, Gender
- pet\_update: Image, Name, Birthday, Gender
- pet\_update: Image, Name, Birthday, Gender
- pet\_weight\_register: Weight

It's a little too much work.

If you had separated the styles from the beginning, you only had to change the style in one place, so it's a good idea to keep in mind that if you see screen elements that have different meanings, you should define the styles.

# Let's preview

## PetLog

[← Back to list](#)

**Image**  


**Name**  
pochi

**Birthday**  
2019年11月18日

**Gender**  
女の子

**UPDATE**

**Weight Logs**



| Date     | Weight (kg) |
|----------|-------------|
| 11/17 7時 | 4.0         |
| 11/17 7時 | 3.9         |
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.8         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 4.8         |
| 11/17 7時 | 3.0         |
| 11/19 7時 | 4.8         |

That's it for Style.

# **Build logic**

## Build logic

Logic is embedded in various places in the application.

- Return feedback on screen operations
- Extract and process data
- Various things such as switching screens depending on the authority

Even with Bubble, you can embed logic in various places, so let's do it together.

**Give feedback on screen operations**

# Give feedback on screen operations

Bubble allows you to embed logic in screen elements.

It can be used to create and crowd feedback on screen operations.

If you hover over your pet list, try moving it so that it has a red frame.

PetLog

LOG OUT

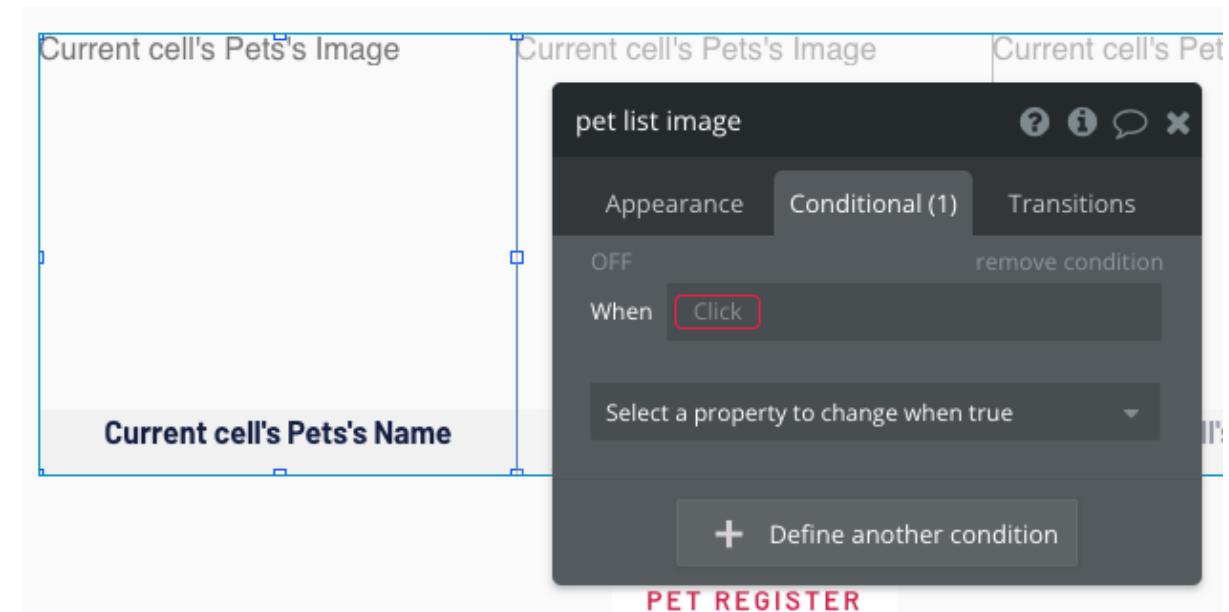
The dashboard displays three cards representing pets:

- pochi**: A small dog wearing a lion mane costume.
- tama**: A small dog wearing a green frog costume.
- kuro**: A yellow Labrador Retriever wearing a brown baseball cap.

**PET REGISTER**

I will embed the logic in the image  
Element

- Open pet\_list
- Double-click the image Element of the pet image to open the settings
- Specify Conditional from the tab
- Click the Define another condition button

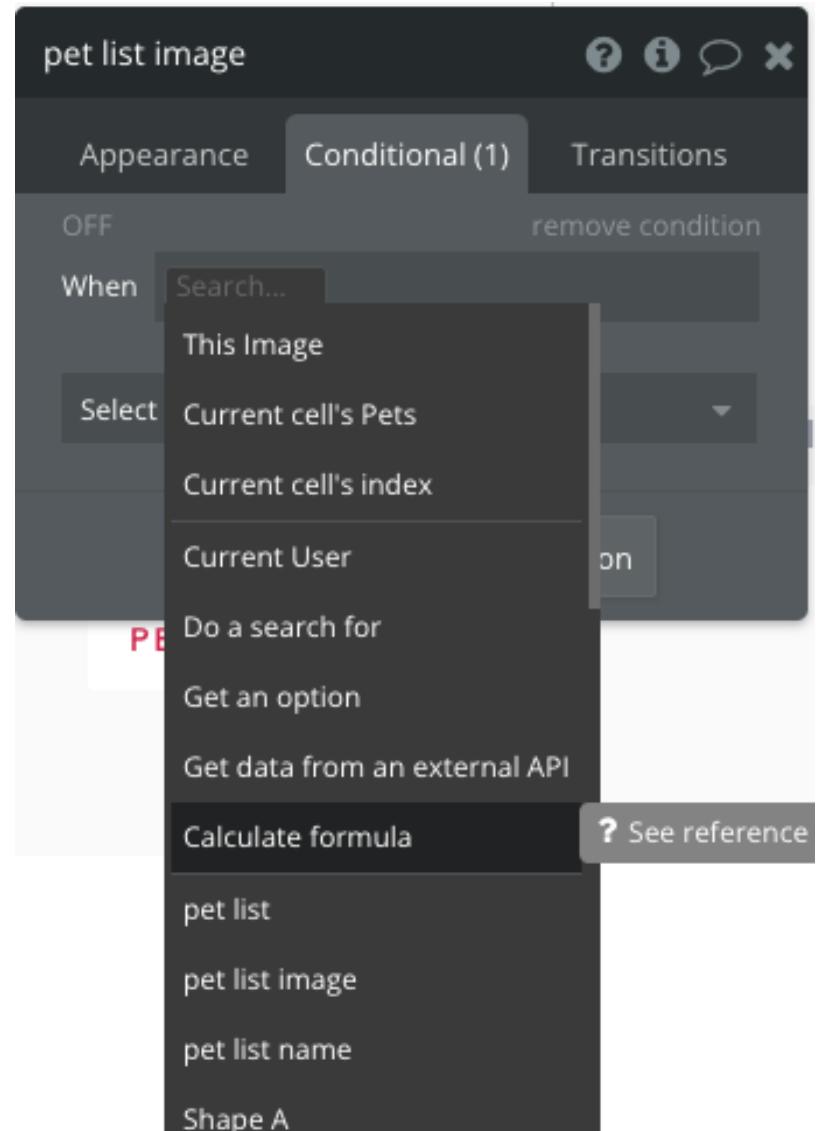


As I mentioned a bit last week, here you can define the conditions and whether to change the properties as well if the conditions are met.

First, let's see what conditions can be specified.

- The image element, its parent element, and other elements on the screen
- Login user
- New data search
- Current status such as date, current position, page width, scroll position, etc.

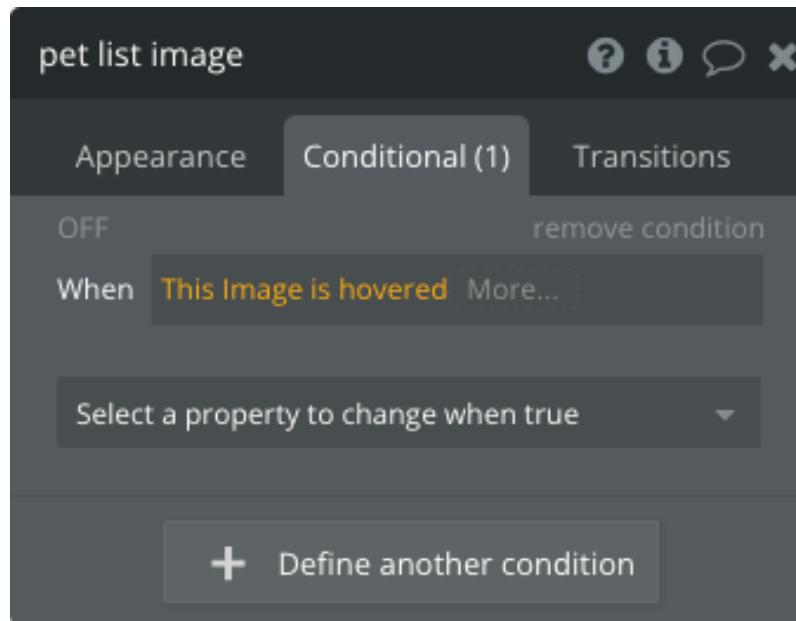
You can see that various conditions can be specified.



This time, simply select the corresponding image `This Image`.

Then, the state of the image will be lined up next. There are many things here as well, but this time select `is hovered`.

Now, the condition is that the image is hovered.



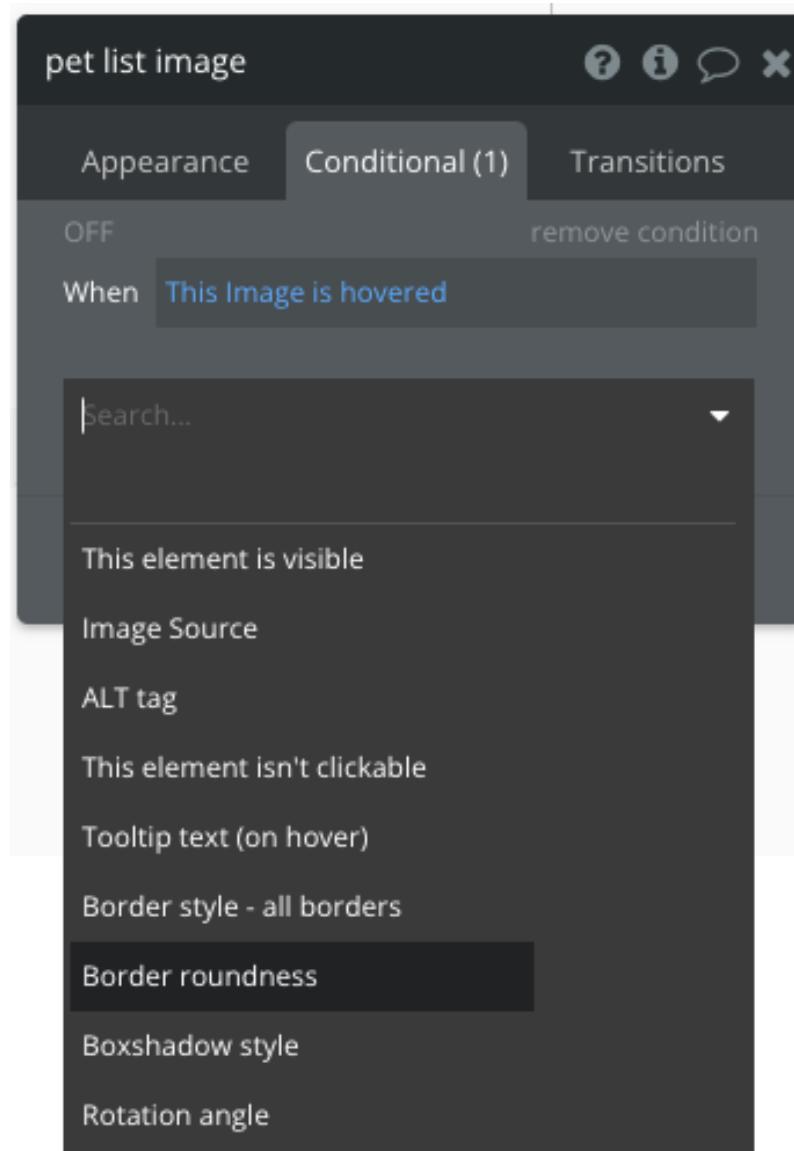
Next, specify which property to change and how to change it when the conditions are met.

Click **Select a property to change when true** and take a look inside.

- Image source, alt attribute
- Can you click, border, etc.

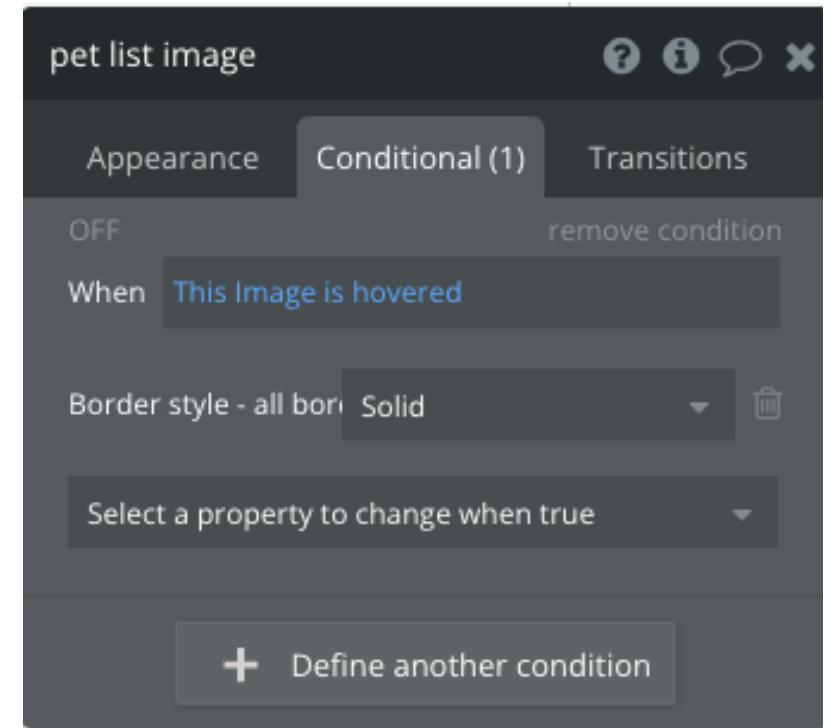
You can see that it seems that various changes can be made.

What is lined up here depends on the type of Element.

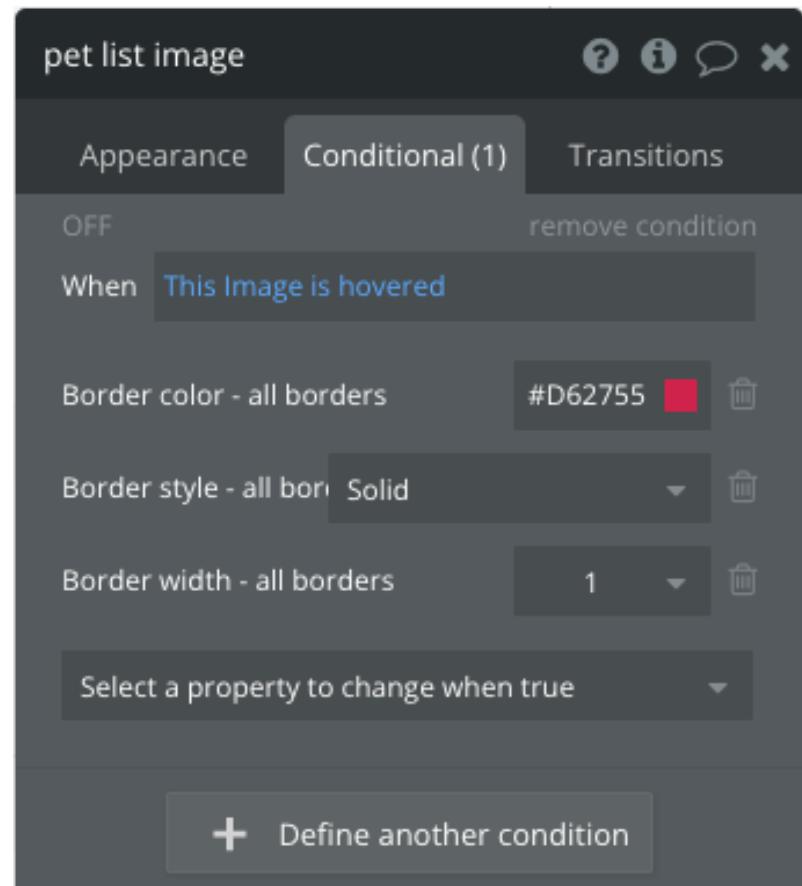


This time, if it is hovered, it will have a red border.

- Click Border style – all borders
- Change the part that is None to Solid
- It means that the frame line specified as None is changed to Show solid line .



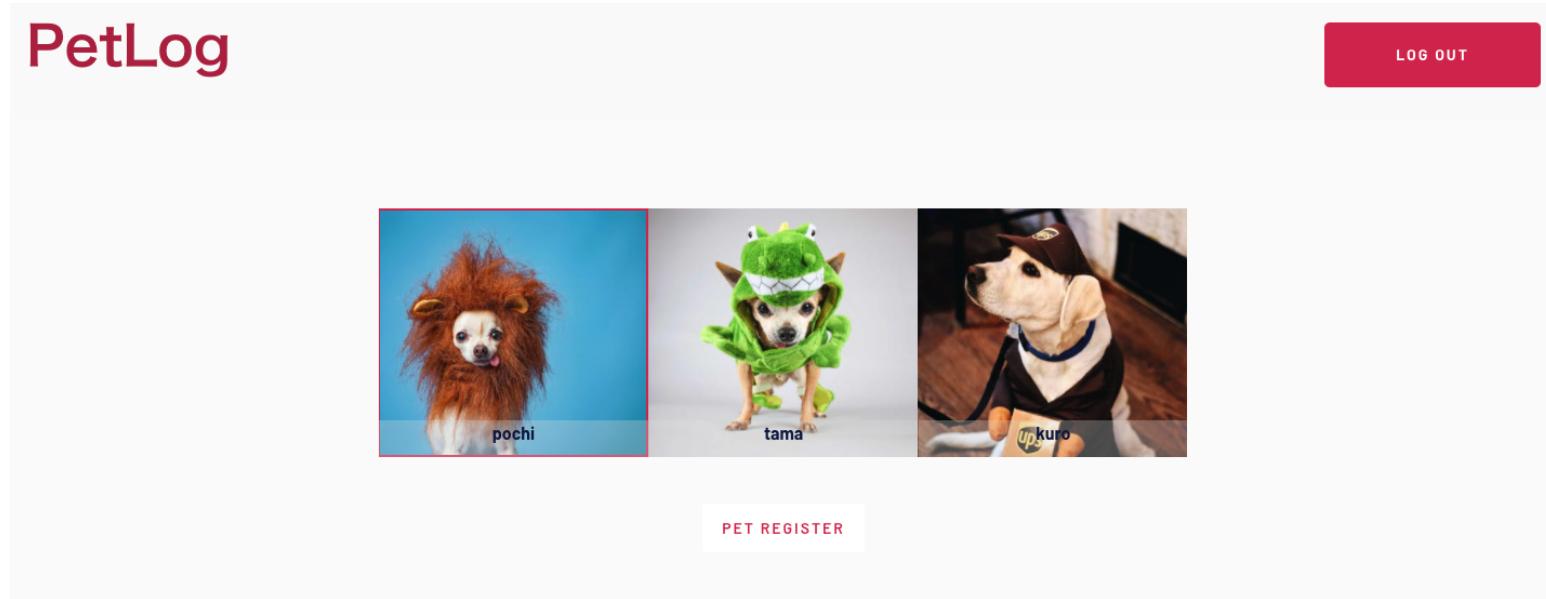
- Select **Select a property to change when true**
- Click **Border color - all borders**
- You will be able to specify the color, so select the basic color.
- Similarly, next, specify **Border width - all borders** and set **2**.



This completes the settings.

# Let's preview

After hovering, a red frame will appear.

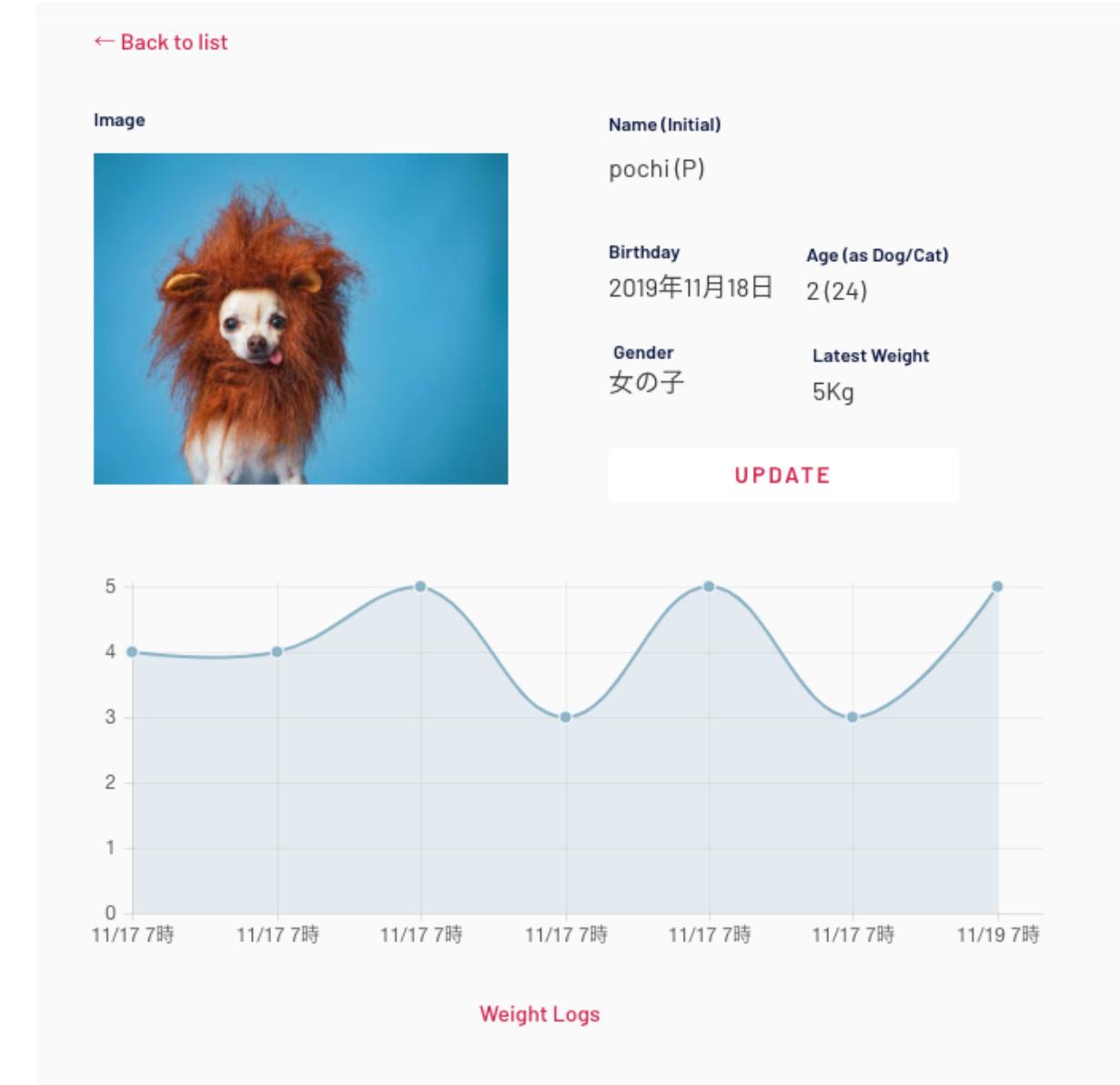


In this way, you can create a product by embedding logic such as giving easy-to-understand feedback to user operations and switching screen decoration depending on the state.

**Extract and process data**

## Extract and process data

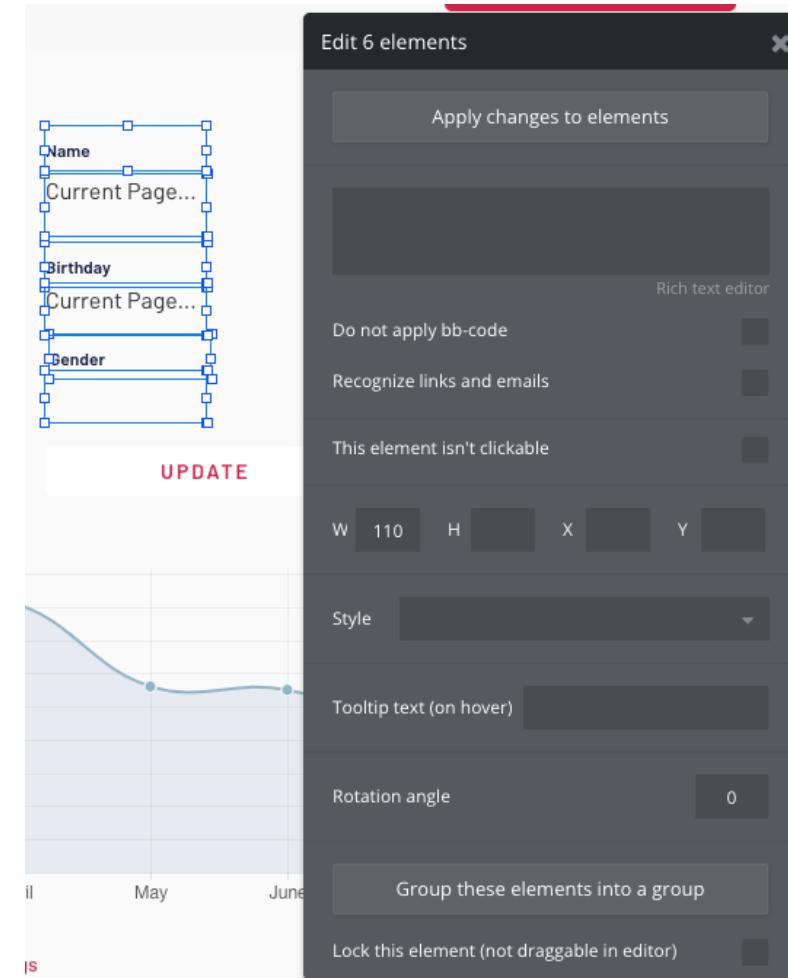
You can extract only specific data, or process or calculate the acquired data. Display your pet's initials, age, and latest weight.



# Advance preparation

We'll be adding more elements, so let's reduce the width of Name, Birthday, and Gender.

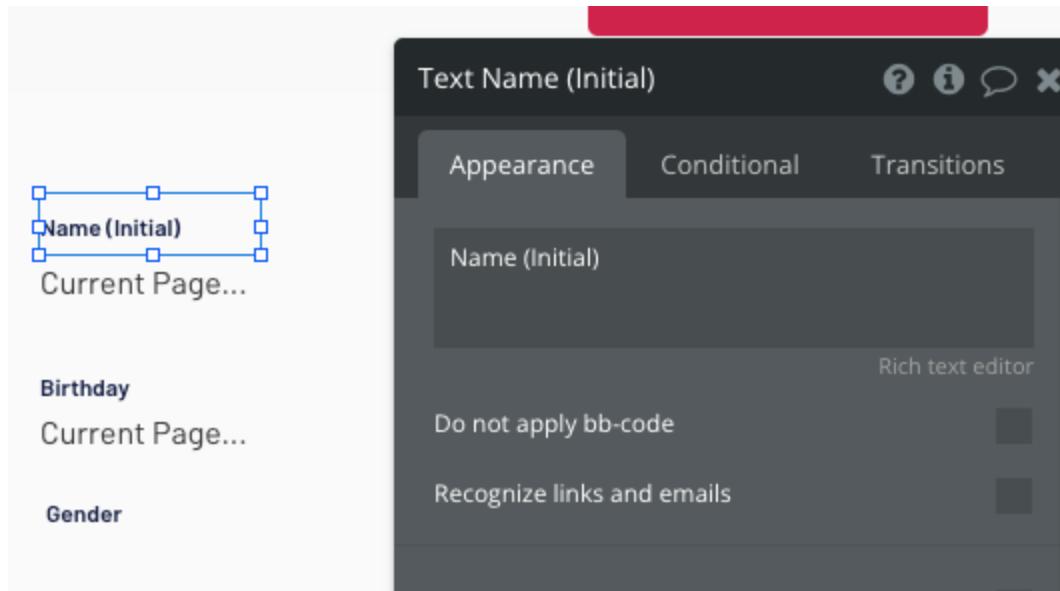
- In pet\_detail, double-click Name to open the settings
- Hold down Shift and select from the Name label to the Gender text element
- Specify 110 for W (width)
- Press the Apply changes to elements button



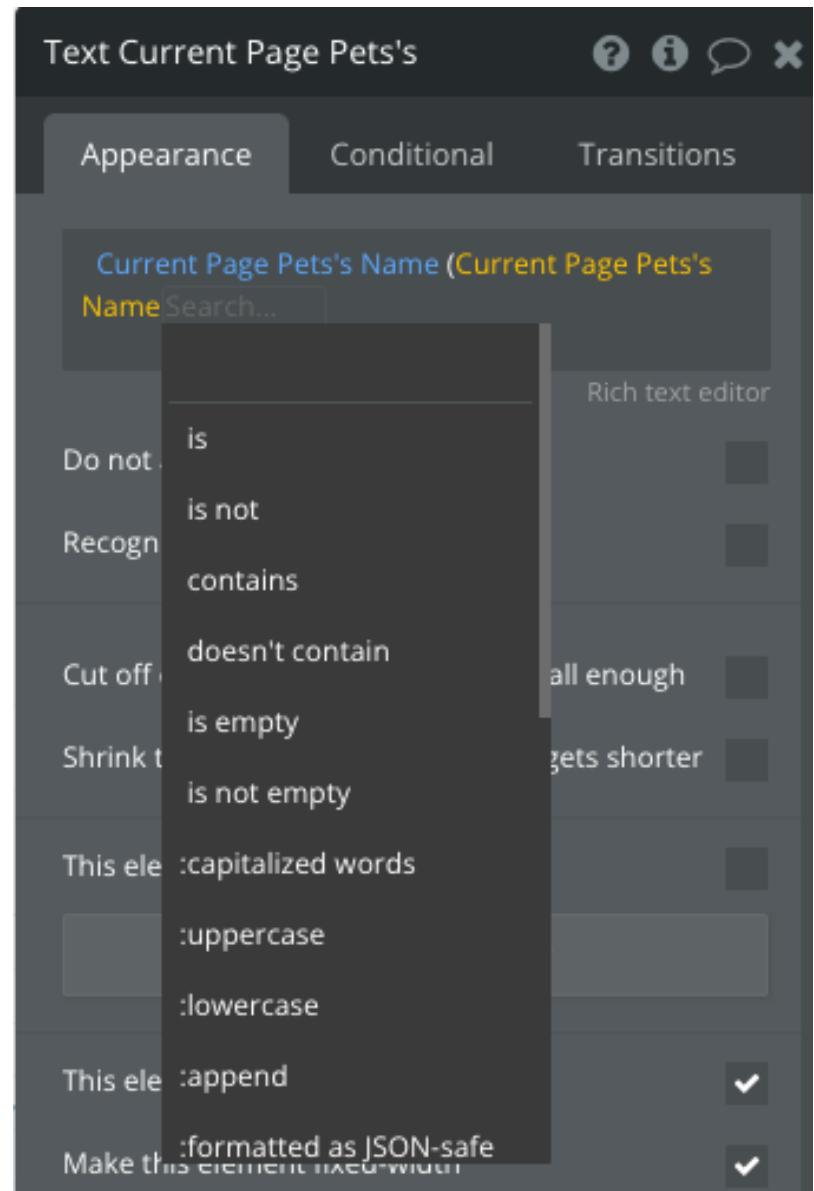
Please check the preview to see if the screen has collapsed.

# First, display the initials

- Change the contents of the Name label to **Name (Initial)** so that you can see that it contains initials.

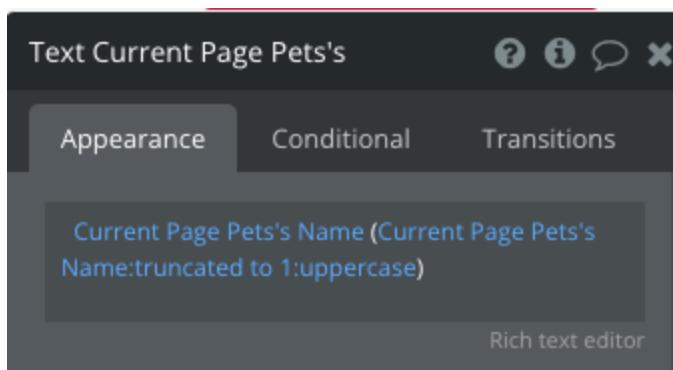


- Select the text that contains the contents of Name
- Click the part of the text input field where there is no character to focus
- Enter (
- Select Insert dynamic data
- Select Current Page Pets > 's Name
- It should be faint as More ..., so click it.



Various processing methods can be selected here. Let's take a look.

- Select truncated to
  - This means to cut up to the specified number of characters.
- Type 1 and press Enter to confirm
- Click because it says More again
- Select : uppercase
  - This means to convert to uppercase
    - (It doesn't make sense for those who have Japanese names)
- Click the part of the text input field that does not have characters and enter )



# Let's preview

[← Back to list](#)

**Image**



**Name (Initial)**  
pochi(P)

**Birthday**  
2019年11月18日

**Gender**  
女の子

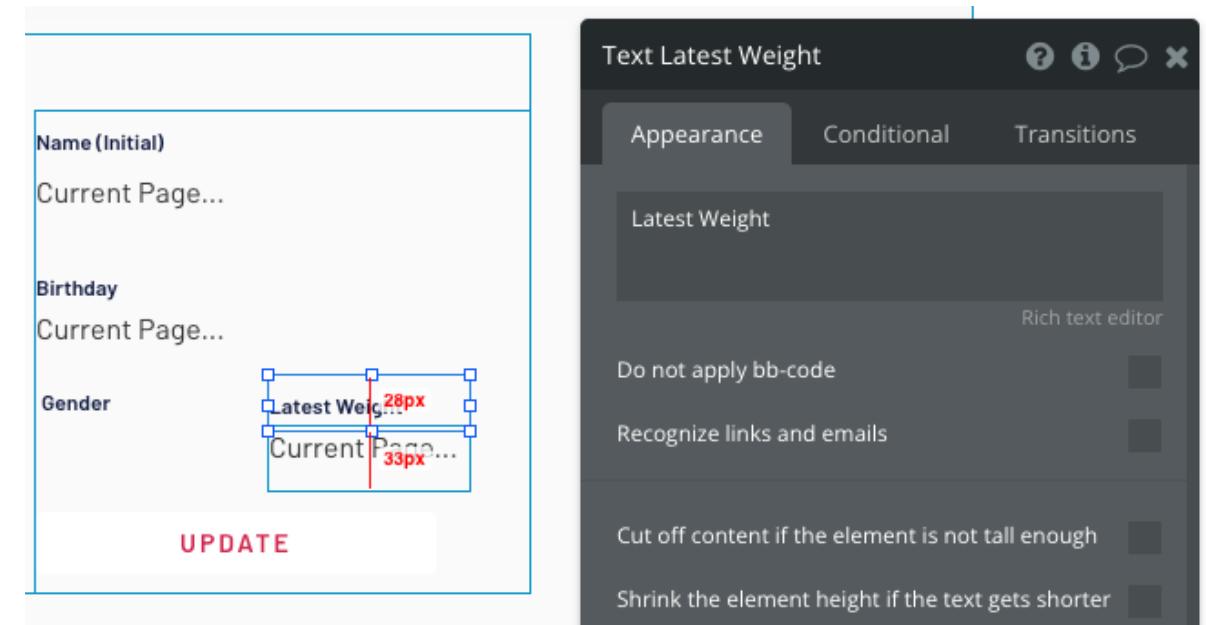
**UPDATE**

**Weight Logs**

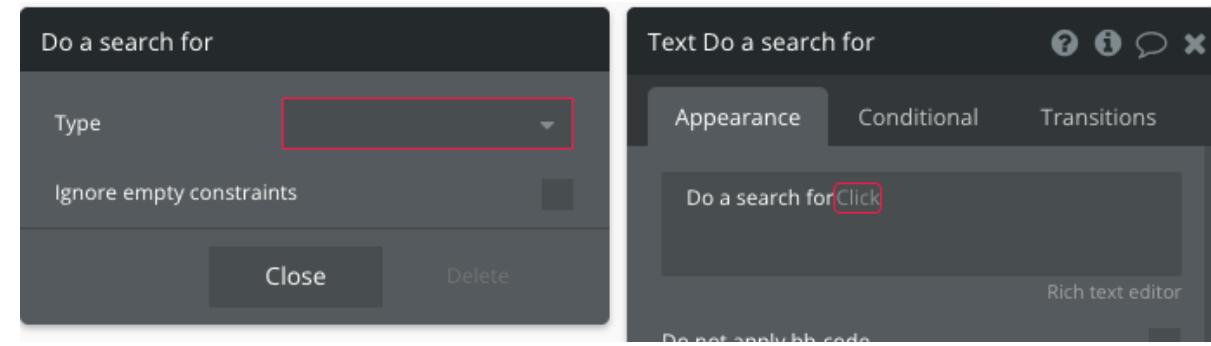


# Show the latest weight

- Copy and paste the birthday label and text and place it
- Change the label to Latest Weight



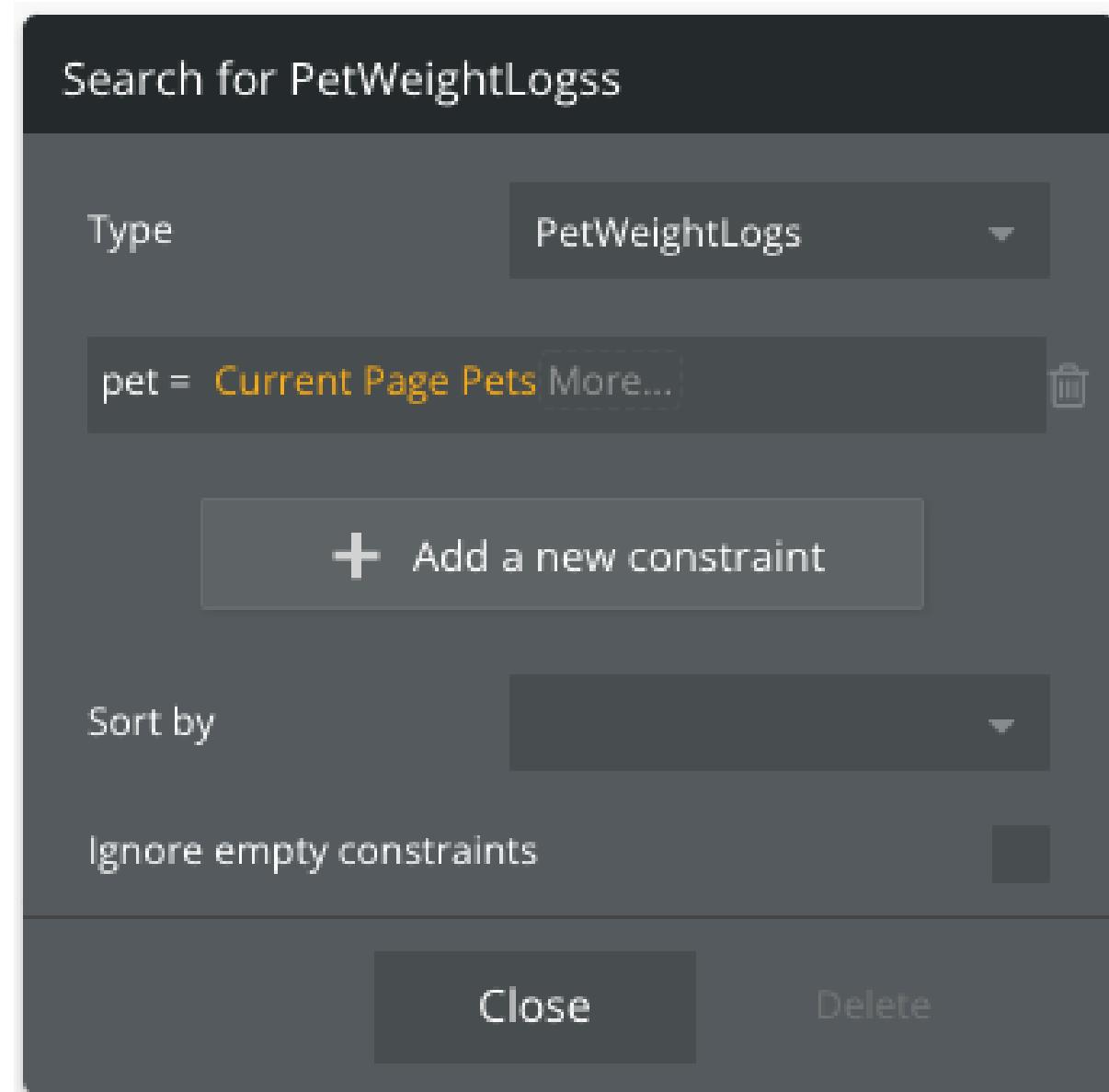
- Open the text settings that bring out the contents of Latest Wight and empty the text entry area.
- Focus and click **insert dynamic data**
- Click **Do a search for**
  - It means to search the data.



Specify to get the weight of the pet currently displayed on the page

- Specify `PetWeightLogs` for Type
- Click the Add a new constraint button
- The condition input field will appear. Click it and specify `pet , = , Current Page Pets` in that order.

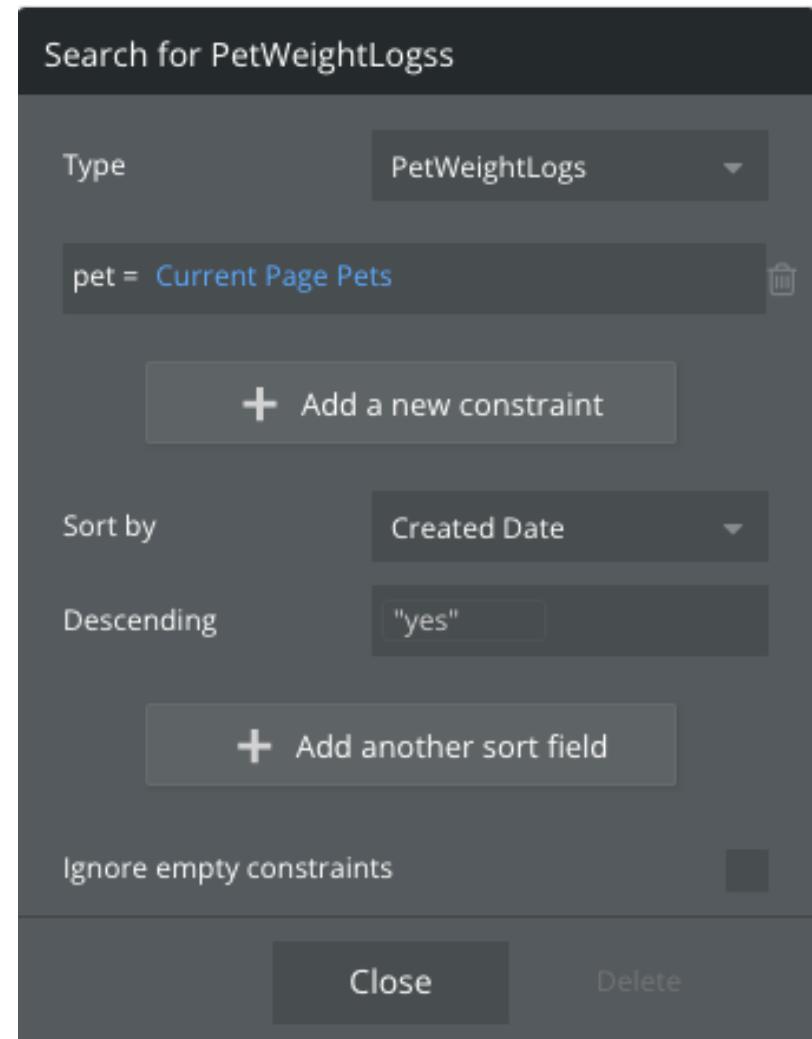
You can get it under various conditions, so let's see what kind of conditions there are.



Specify the order of creation date, that is, the order of newly created ones.

- Specify **Created Date** for Sort by
- Specify **yes** for Descending
- Close

It's easy to forget to specify the order, but it's often important.

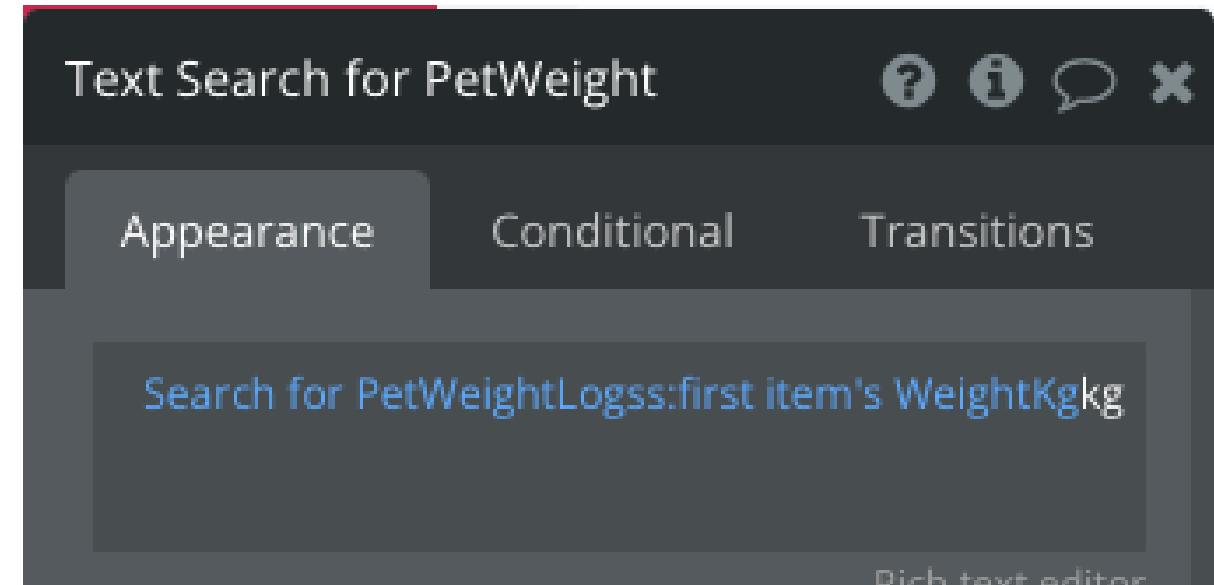


Shows the latest 1 weight

- Click More in the text entry field to see what's inside
- Specify : first item because you want to get the first item.
- Next, specify 's Weight Kg
- Click on the blank area and enter kg

This completes the latest weight setting.

Let's remember and wake up as a method of data extraction and list processing.



# Let's preview.

[← Back to list](#)

Image



Name (Initial)

pochi(P)

Birthday

2019年11月18日

Gender

女の子

Latest Weight

5kg

UPDATE



Weight Logs

**<Advanced>**

**A little off the side street,**

**Let's look at the number More and the date More.**

Bubble offers various processing and calculation methods for numerical values and dates.

**<Advanced>**

## Calculate age

Next is the age. As you saw earlier, it is possible to process and calculate numerical values and dates, but age calculation seems to be a little difficult, so I will try to embed the code directly.

By introducing a plugin in Bubble, you can operate simple processing using a programming language called javascript.

## <Advanced>

To embed javascript code, use a plugin called **Toolbox**.

Let's install it.

- Specify **Plugins** in the left menu
- Enter **tool** in the search text box  
(search will take some time)
- Press the **Install** button on the **Toolbox** that appears at the top of the search results

The screenshot shows a search interface for finding new plugins. The search term 'tool' has been entered into the search bar. On the left, there are filters for 'Types' (Action, API, Background Services, Element, Event, Login Service, Storage) and 'Categories' (Analytics, Blog, Compliance, Containers, Customer Support, Data (things), Ecommerce, Email, Energy, Health & Fitness, Input Forms, Internationalization, Location, Media, Mobile). The search results list four items:

- Toolbox**: Javascript and utility elements: List of Numbers. Expression. Javascript to Bubble. List Item Expression. Run javascript (workflow action). Server script (server workflow action). By Misha V. Free. This item has a red box drawn around its 'Install' button.
- CSS Tools**: CSS Toolkit for playing with elements and page styles. Place the CSS Tools element on your page to use its actions. - Fire actions to adjust element height and width over time. - Add custom styles to... By Zeroqode. Free. This item also has an 'Install' button.
- Air Tooltip**: A feature-rich tooltip. DEMO & DOCUMENTATION https://zeroqode.com/plugin/air-tooltip-1617981518362x877549542582502700 SUPERCHARGE YOUR APP WITH ZEROQODE PLUGINS https://zeroqode.com/plugins NO-CODE... By Zeroqode. Free. This item has an 'Install' button.
- Algorithmia Color Tool**: Uses the Algorithmia Colors from Image API to build a color palette from a photo. This plugin also comes with a tool to convert RGB colors into Hex Colors so the response can be used in bubbles dynamic colors. By Brown Fox. Free. This item has an 'Install' button.

At the bottom right of the search results area, there is a large blue 'DONE' button.

## <Advanced>

There are two main ways to embed code in Toolbox, this time I will introduce the following two ways

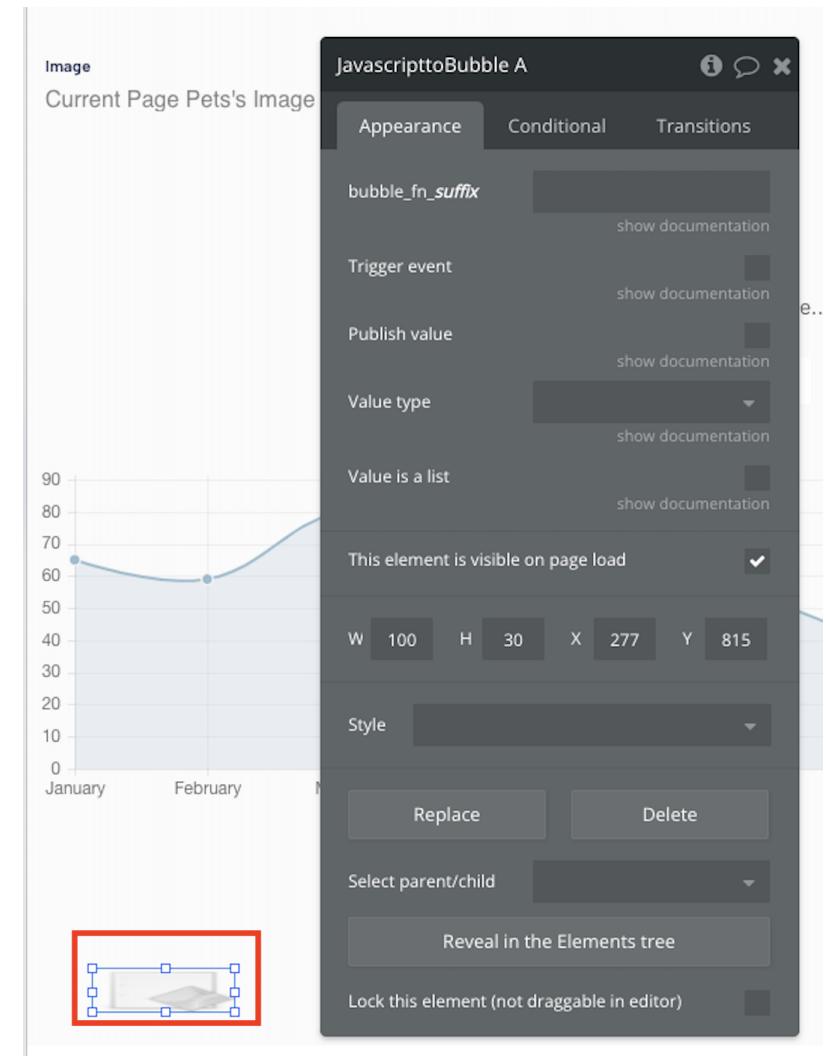
- Execute with `Run javascript` on Workflow / Receive with `Javascript to Bubble` on Design
  - Used for complicated processing that spans multiple lines
- Execute and receive with `Expression` on Design
  - Used for processing that ends in a single shot

## <Advanced>

Now let's calculate the age.

Use Run javascript / Javascript to Bubble . First, put Javascript to Bubble in the pet\_detail screen.

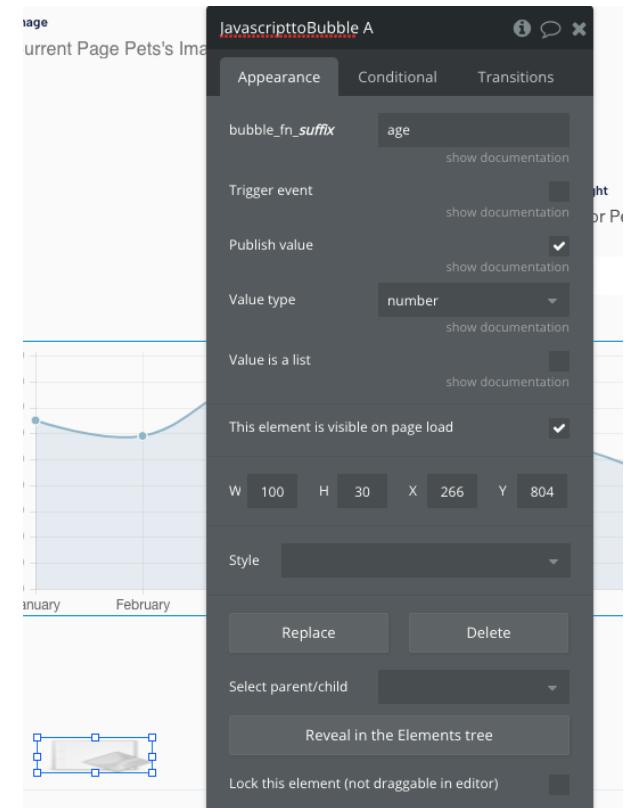
- Select javascript to Bubble from Visual elements in the left menu
- Place it in a place that does not get in the way, such as at the bottom of the screen
- Since it is for receiving the result of javascript, it is not displayed at the time of execution such as preview



## <Advanced>

- Specify age in bubble\_fn\_suffix
- Check Publish value
- Specify number for Value type

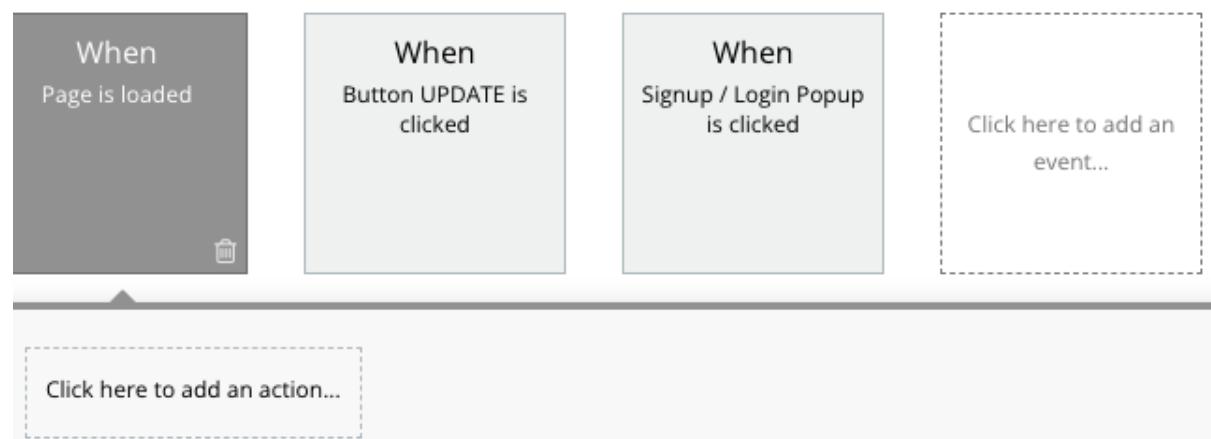
Now, if you pass a value from javascript to a function (a block of processing) called bubble\_fn\_age , you will be able to receive it on this screen element.



## <Advanced>

Next, define where to execute javascript.

- Select Workflow from the left menu
- There are squares lined up, but select the rightmost **Click here to an event ...**
- Select **General > Page is loaded**



## <Advanced>

- Click here to add an action ... ^
- Click Plugins > Run javascript
- The settings will open, so paste the code on the next page into the Script field.



The screenshot shows a 'Run javascript' dialog box. The title bar says 'Run javascript' with close and minimize buttons. The main area contains the following JavaScript code:

```
Script. To use a return value, use in conjunction with
//生年月日
const birthday = {
  year: ,
  month: ,
  date: 
};

function getAge(birthday){

  //今日
  let today = new Date();

  //今年の誕生日
  let thisYearsBirthday = new
Date(today.getFullYear(), birthday.month-1,
birthday.date);

  //年齢
  let age = today.getFullYear() - birthday.year;

  if(today < thisYearsBirthday){
    //今年まだ誕生日が来ていない
    age--;
  }

  return age;
}

bubble_fn_age(getAge(birthday));
```

At the bottom of the dialog, there are buttons for 'Rich text editor', 'show documentation', 'Asynchronous' (with a checked checkbox), and another 'show documentation' button.

```
//  
const birthday = {  
  year :,  
  month :,,  
  date: date:  
};;
```

```
function getAge (birthday) {
```

```
//today  
let today = new Date ();  
  
// This year's birthday  
let thisYearsBirthday = new Date (today.getFullYear (), birthday.month-1, birthday.date);  
  
//age  
let age = today.getFullYear () - birthday.year;  
  
if (today <thisYearsBirthday) {  
  // Birthday hasn't come yet this year  
  age-;  
}  
  
return age;
```

## <Advanced>

Insert the date with `insert dynamic data` after `year:`, `month:`, `date:` in the 3rd to 5th lines.

- `year:` Place the cursor after `(before , )`
  - `insert dynamic data` > `Current Page Pets` > `'s Birthday`
  - `More` > `formatted as 11/20/21`
  - Specify `Custom` for `Format type`
  - Specify `yyyy` in `Custom format`
- Similarly, after `month:`, set `Custom format` to `m` and insert it.
- Similarly, after `date:`, set `Custom format` to `d` and insert it.
- The image after input is on the next page

## <Advanced>

Image after input

![w:800](Images / 2021-11-20-05-20-55.png)

## <Advanced>

Let's arrange the screen elements to display

- Copy and paste birthday labels and text
- Changed the label to Age
- Specify the content of the text as `Javascript to Bubble A > 's value`

<Advanced>

# Let's preview

[← Back to list](#)

|   |                       |
|---|-----------------------|
| <b>Image</b>  | <b>Name (Initial)</b> |
|  | pochi (P)             |
| <b>Birthday</b>   | <b>Age</b>            |
| 2019年11月18日   | 2                     |
| <b>Gender</b>   | <b>Latest Weight</b>  |
| 女の子   | 5Kg                   |

**UPDATE**



| Date     | Weight (kg) |
|----------|-------------|
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.0         |
| 11/17 7時 | 5.0         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 5.0         |
| 11/19 7時 | 5.0         |

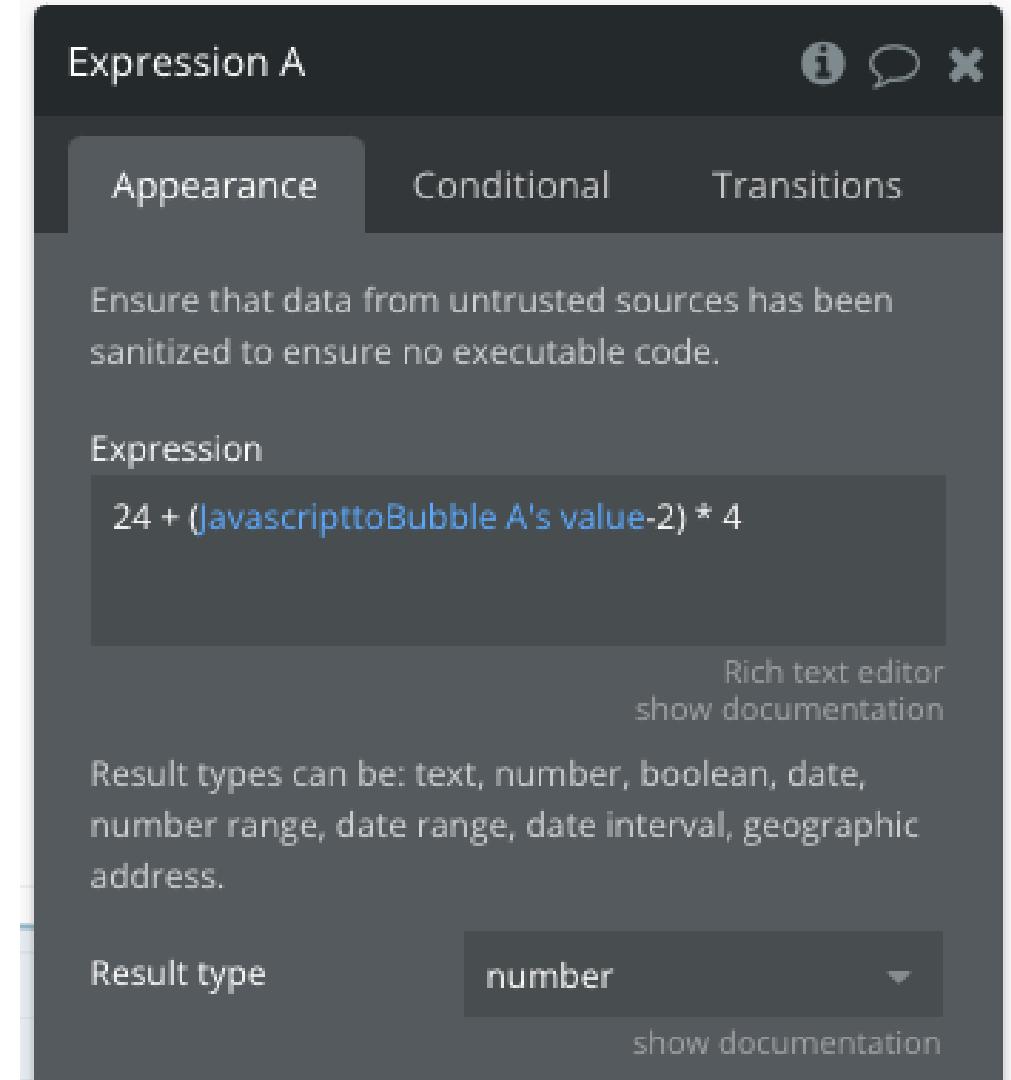
**Weight Logs**

## <Advanced>

Next, when converted to dog and cat age, I will also display how old it is.

Use **Expression**.

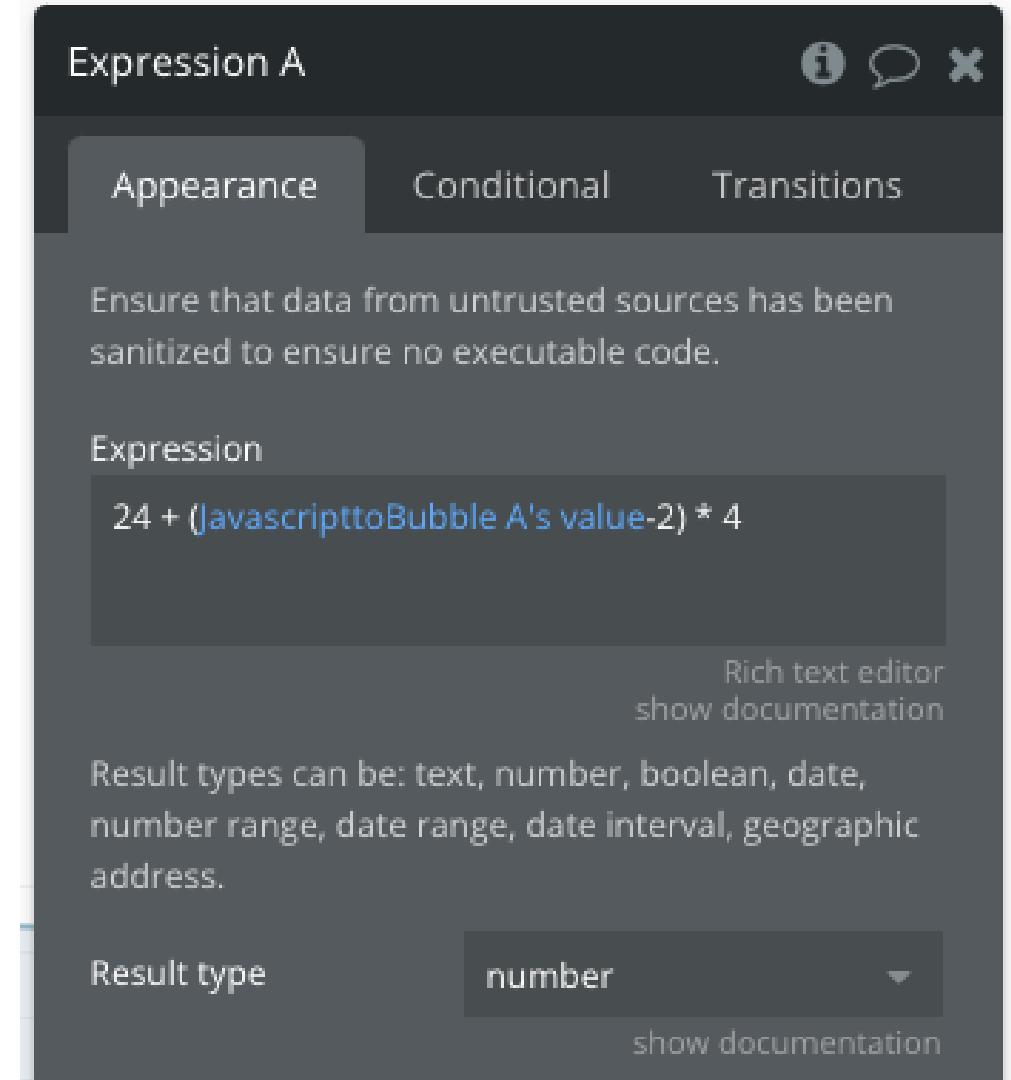
- Select **Expression** from Visual elements and place it next to **Javascript to Bubble**.
- Enter **24 + (** in Expression
- Insert **Javascript to Bubble A > 's value** with **insert dynamic data**
- Continue, enter **-2) \* 4**
- Specify **number** for Result type



## <Advanced>

Set the display.

- Changed the Age label to Age (as Dog / Cat) to make it easier to understand that it also includes the age of dogs and cats.
- Enter ( after what was originally entered in the Age text
- Insert Expression A > 's value with insert dynamic data
- Enter )



<Advanced>

# Let's preview

[← Back to list](#)

**Image**



**Name (Initial)**  
pochi (P)

**Birthday** 2019年11月18日    **Age (as Dog/Cat)** 2 (24)

**Gender** 女の子    **Latest Weight** 5Kg

**UPDATE**

**Weight Logs**



| Date     | Weight (kg) |
|----------|-------------|
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.0         |
| 11/17 7時 | 4.9         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 4.9         |
| 11/17 7時 | 3.0         |
| 11/17 7時 | 4.9         |
| 11/19 7時 | 5.0         |

**Switch screens by authority**

## Switch screens by authority

So far, we have explained the incorporation of logic in parts such as feedback to screen operations and data extraction / processing.

Next, I would like to add logic that spans multiple functions.

Do the following:

— Divide users into pet owners and pet advisors

- Owners can use the screens and functions they have created so far.
- Advisors can use screens and functions dedicated to advisors

# Screen image for advisors

## PetLog

LOG OUT

|   | Name  | Gender | Birthday   | Owner                             |
|---|-------|--------|------------|-----------------------------------|
|    | boo   | Female | 2021/9/14  | kim+2@guildworks.jp               |
|    | kuro  | Female | 2021/11/4  | kim@guildworks.jp                 |
|    | tama  | Male   | 2021/11/2  | kim@guildworks.jp                 |
|   | pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  | コロネ   | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  | ロボ    | Male   | 2021/7/1   | kyogoku+bubble_test@guildworks.jp |

# PetLog

LOG OUT

← Back to list

Image



Name (Initial)

pochi(P)

Birthday

2019年11月18日

Age (as Dog/Cat)

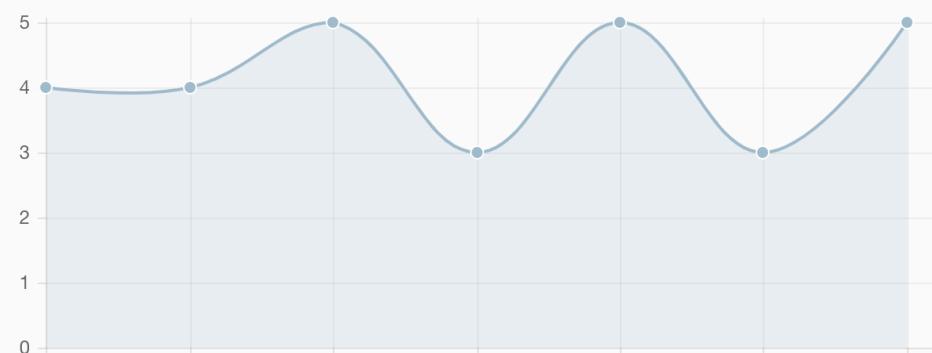
2(24)

Gender

女の子

Latest Weight

5Kg



As a development flow, we will make it in the following order.

- Add a field to the user information to determine whether it is an owner or an advisor
- When registering as a user, you can select whether you are an owner or an advisor to register.
- Create an advisor list screen and details screen
- Switch screen transition destination after login / sign-up depending on whether you are the owner or an advisor

It takes a lot of steps, but there are many products that handle multiple user types, so be sure to learn them.

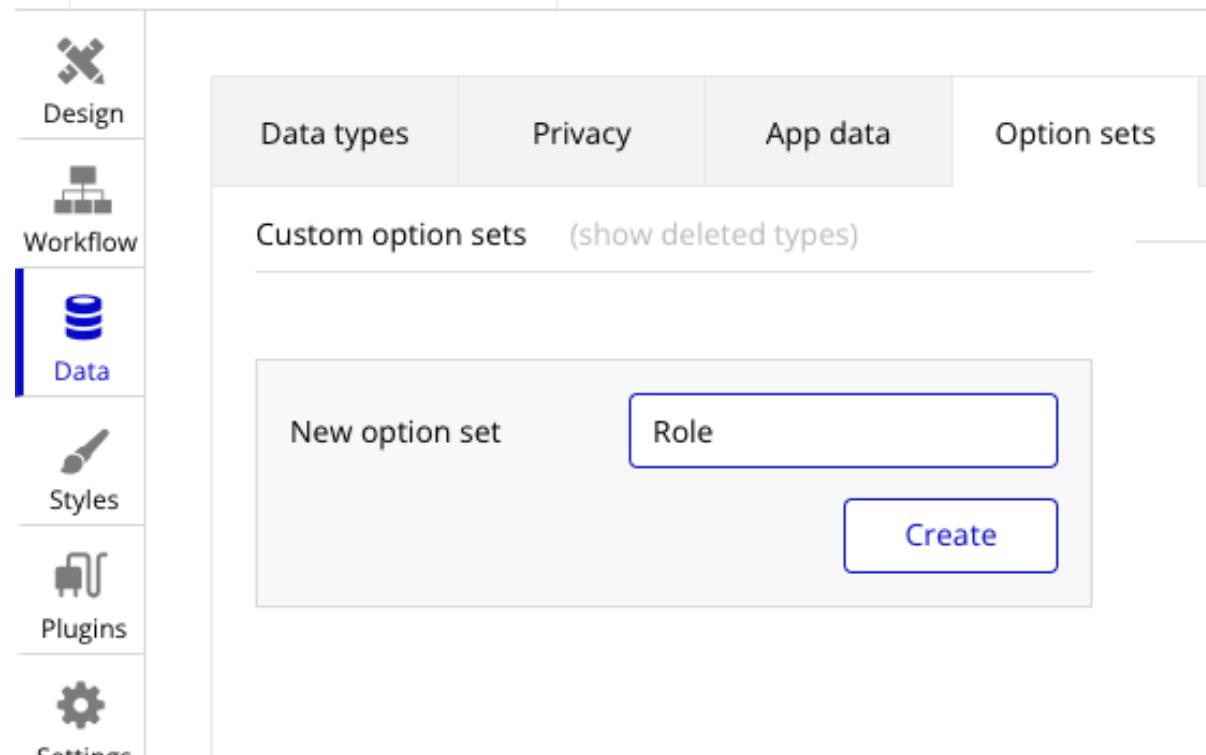
## Add a field that can identify the user

First of all, it will be possible to retain the difference in the role of owner or advisor on the data.

You can keep it as a text like when you are a pet male or female, but it will be easier to handle the value specified from the fixed choices by defining the choices in advance and using them. Bubble provides a mechanism called Option set, so let's use it.

## Let's set Options

- Go to **Data** > tab **Option sets** on the left menu
- Enter **Role** in **New Option set** and press the **Create** button
- Role is created as a new Option set



We will add specific options to the Option set called Role. This time, create a Pet Owner and a Pet Advisor.

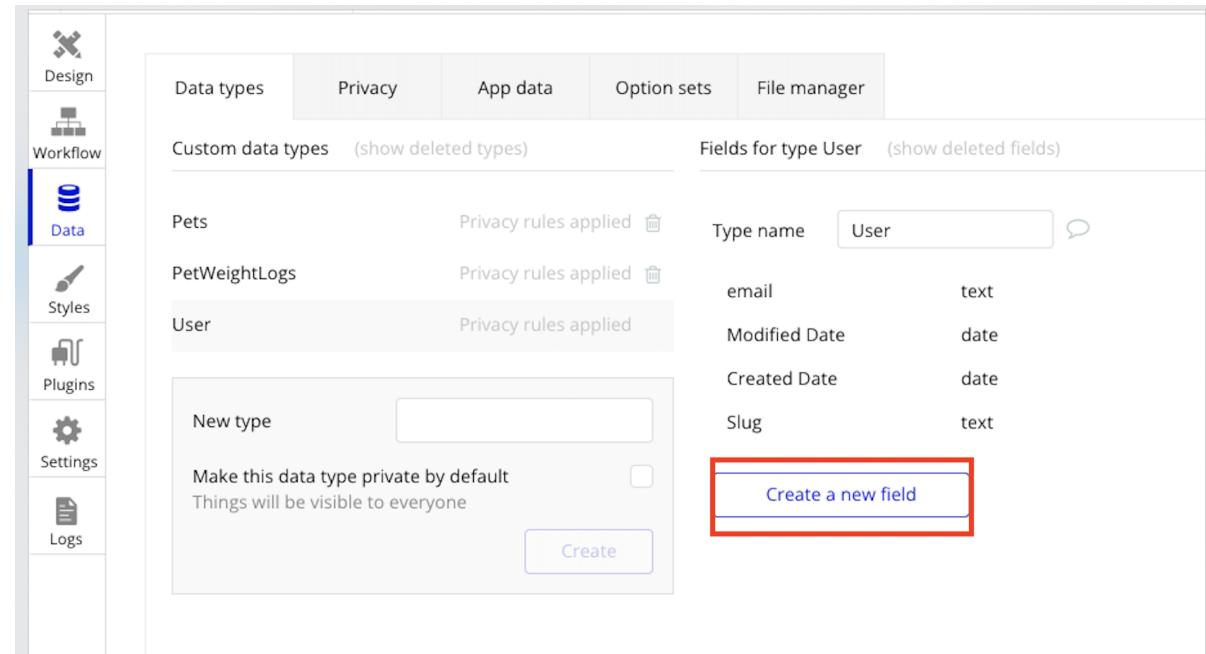
- Enter Pet Owner in New Option at the bottom right of the screen and press the Create button.
- Similarly, enter Pet Advisor in New Option and press the Create button.

This completes the settings.

The screenshot shows the 'Custom option sets' section of the Salesforce setup. At the top, there are tabs for Data types, Privacy, App data, Option sets (which is selected), and File manager. Below the tabs, it says 'Custom option sets (show deleted types)' and 'Attributes and options for set Role'. A 'Role' section contains a 'New option set' input field and a 'Create' button. To the right, under 'Attributes and options for set Role', there is an 'Option set name' field with 'Role' and a help icon. Below it, 'Attributes (fields that describe each option)' are listed as 'text' with a 'Display' field. A 'Create a new attribute' button is available. Under 'Options', two items are listed: 'Pet Owner' and 'Pet Advisor', each with a 'Modify attributes' link and a 'move down' or 'move up' link. At the bottom, there is a 'New option' input field and a 'Create' button.

Next, let's add a role as a user attribute

- Go to **Data > tab Data types** on the left menu
- Select **User**
- Click the **Create a new field** button at the bottom right of the screen



- Enter **Role** in **Field name**
  - This can be any name as long as it is easy to understand.
- Select **Role** for **Field type**
  - The one specified here is the **Role** as the **Option set** created earlier.
- Press the Create button

### Create a new field

Field name

Field type  ▼

This field is a list (multiple entries)

**CREATE** **Cancel**

Now that we've added a new field, the Role will be empty for users who have already created it. It will cause inconsistency later, so apply a patch (data correction) to the existing data.

- Go to the App Data tab and select All Users
- The table will be displayed. Click the pen icon at the left end of the table to edit it one by one.
  - All the users created now should be owners, so specify Pet Owner for Role .

Modify an existing database entry

|               |           |                     |                                  |                      |
|---------------|-----------|---------------------|----------------------------------|----------------------|
| Type of thing | User      | Email               | Created Date                     | Modified Date        |
| Role          | Pet Owner | kim+2@guildworks.jp | Nov 19, 2021 7:25 am             | Nov 19, 2021 7:25 am |
| Slug          |           | Unique id           | 1637274311987x540151212983663400 |                      |

**SAVE** Cancel

All PetWeightLogs Run as → kim@guildworks.jp Nov 16, 2021 7:19 pm Nov 19, 2021 6:25 am

# All lines in Users are OK if Role is Pet Owner

The screenshot shows a user interface for managing application data. On the left, there's a vertical sidebar with icons for Design, Workflow, Data (which is selected), Styles, Plugins, Settings, and Logs. The main area has tabs for Data types, Privacy, App data (selected), Option sets, and File manager. Below these are sections for Database views and Application data - All Users - Development version. The application data table has columns for Email, Role, Created Date, and Modified Date. The Role column is highlighted with a red box. All entries in this column show 'Pet Owner'.

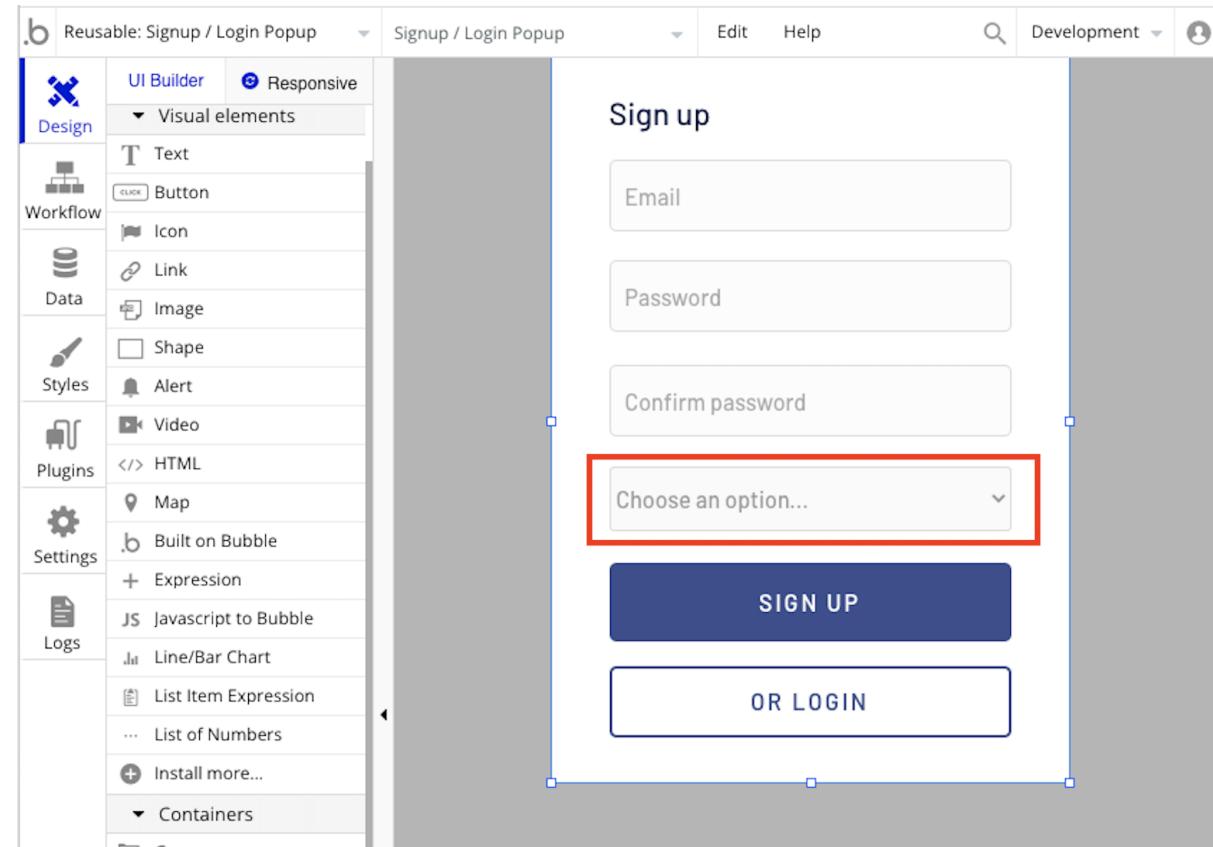
|                          |          | Email                       | Role      | Created Date          | Modified Date        |
|--------------------------|----------|-----------------------------|-----------|-----------------------|----------------------|
| <input type="checkbox"/> | Run as → | kim+2@guildworks.jp         | Pet Owner | Nov 19, 2021 7:25 am  | Nov 20, 2021 6:28 am |
| <input type="checkbox"/> | Run as → | kim+advisor2@guildworks.jp  | Pet Owner | Nov 19, 2021 6:32 am  | Nov 20, 2021 6:28 am |
| <input type="checkbox"/> | Run as → | kim+advisor@guildworks.jp   | Pet Owner | Nov 19, 2021 5:35 am  | Nov 20, 2021 6:28 am |
| <input type="checkbox"/> | Run as → | kim@guildworks.jp           | Pet Owner | Nov 16, 2021 7:19 pm  | Nov 20, 2021 6:28 am |
| <input type="checkbox"/> | Run as → | kyogoku+bubble_test2@guildw | Pet Owner | Nov 12, 2021 10:10 am | Nov 20, 2021 6:28 am |
| <input type="checkbox"/> | Run as → | kyogoku+bubble_test@guildw  | Pet Owner | Oct 31, 2021 8:51 pm  | Nov 20, 2021 6:28 am |

## **Allows roles to be specified during user registration**

Next, when registering as a user, specify whether you are the owner or an advisor so that you can register.

I have reused the registration screen prepared by Bubble, but I will change it.

- b Go to **Signup / Login Popup** from the menu next to the logo
- Select **Dropdown** from **Input forms** in the **Design** menu and place it below the password entry field.



- The width of Dropdown is aligned with others to make it look good.
- Dropdown settings are as follows
  - Element name: Dropdown Role
  - Placeholder: Choose a role ...
  - Choice style : Dynamic choices
  - Type of choices : Role
  - Choices source : All Role
  - Option caption : Current option > 's Display
  - Default value : Pet Owner
  - This input should not be empty : Check
- The screen image is on the next page

# Image after input

Dropdown Role

Appearance Conditional Transitions

Placeholder Choose a role...

Choices style Dynamic choices ▾

Type of choices Role ▾

Choices source All Role

Option caption Current option's Display

Enable auto-binding on parent element's thing

Default value Pet Owner

This input should not be empty

This input is disabled

This element is visible on page load

Make this element fixed-width

Sign up

Choose a role...

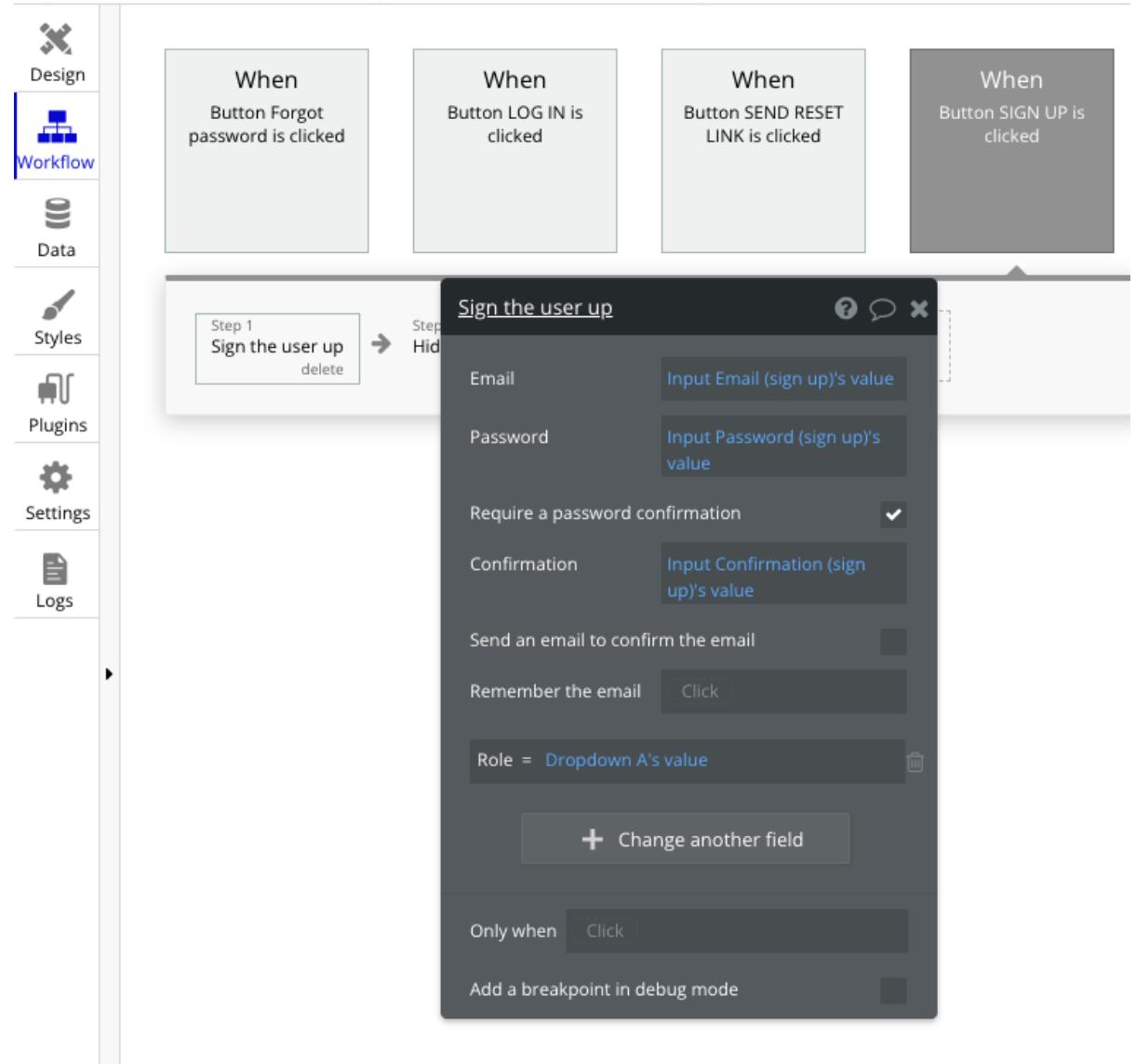
SIGN UP

OR LOGIN

? See reference →

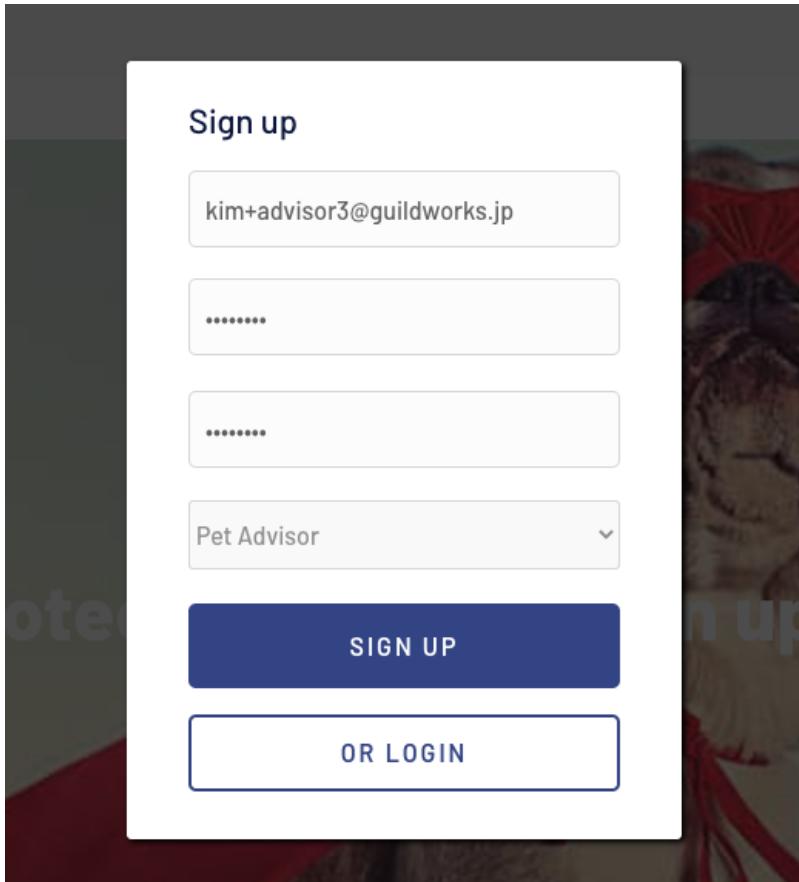
Next, make sure that the entered Role is set at the time of user registration.

- From the left menu, **Workflow** > From the squares in a row, move to **Button SIGN UP is clicked** > From the Actions in a row, in the order of **Sign the user up**.
- Click the **Change another field** button in the Action settings screen
- A input field will appear, so select **Role = Dropdown Role 's value**.



# Let's preview and check the operation

As an advisor, I was able to register for an account! (No dedicated screen yet)

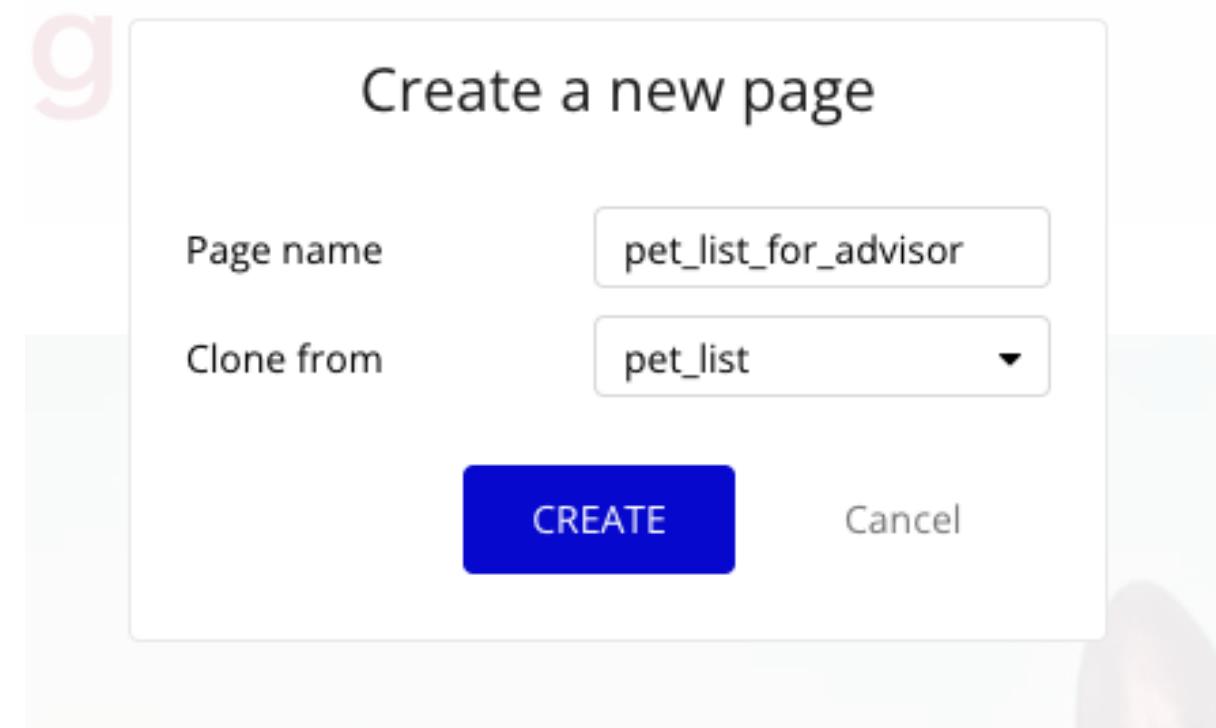


|                          |          |                            |             |
|--------------------------|----------|----------------------------|-------------|
| <input type="checkbox"/> |          | Email                      |             |
| <input type="checkbox"/> | Run as → | kim+advisor3@guildworks.jp | Pet Advisor |

# Create an advisor list screen and detail screen

Let's make a list screen and detail screen of advisors

- b Open the menu next to the logo and Add a new page ...
- Enter pet\_list\_for\_advisor in Page name
- Select pet\_list in Clone from
- A new screen is created



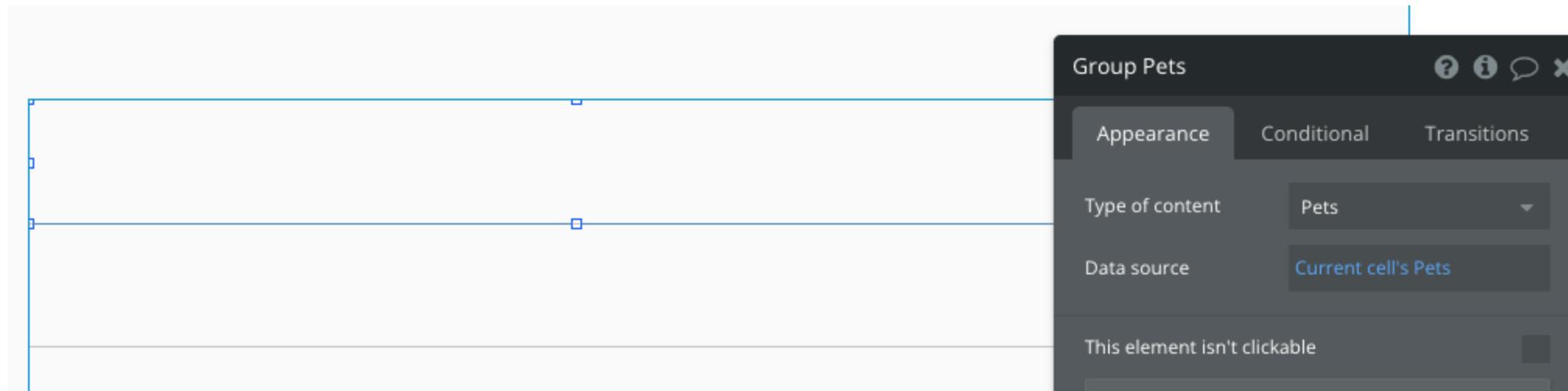
The advisor will make all registered pets visible.

- Delete the original list and button
- Place a Repeating Group
  - Type of content: Pets
  - Data source: Do search for
    - Type: Pet
    - Sort by: Created Date
    - Descending: yes
  - Layout style: Full list
  - This repeating group has fixed width: Check



For convenience, enclose the Repeating Group cell in Group .

- Since there is Group in the line on the left, place it on the screen.
- Make it large enough to fit in one cell of the Rpeating Group and put it in the Repeating Group.
- After putting it in, stretch it to the top, bottom, left, and right of the cell.
- Specify Pets for Type of content and Current cell's Pets for Data source.



Place the elements in the list.

- Image
  - Dynamic image: Parent group's Pets``'s Image
  - Run-mode rendering: Zoom
- Name
  - Text input field: Parent group's Pets``'s Name
- Birthday
  - Text input field: Parent group's Pets``'s Birthday : formatted ad  
2021/11/20
- Owner
  - Text input field: Parent group's Pets``'s Creator 's email
- The screen image is on the next page

# PetLog

[SIGN UP OR LOGIN](#)

|                             | Name             | Gender  | Birthday    | Owner                              |
|-----------------------------|------------------|---------|-------------|------------------------------------|
| 'aren.<br>group's<br>'ets's | Parent group'... | Pare... | Parent g... | Parent group's Pets's Creator's... |
| 'aren.<br>group's<br>'ets's | Parent group'... | Pare... | Parent g... | Parent group's Pets's Creator's... |
| 'aren.<br>group's<br>'ets's | Parent group'... | Pare... | Parent g... | Parent group's Pets's Creator's... |
| 'aren.<br>group's<br>'ets's | Parent group'... | Pare... | Parent g... | Parent group's Pets's Creator's... |

# Let's preview

Nothing comes out! ?? why? ??

The screenshot shows a user interface for a pet management system. At the top left is the logo 'PetLog' in a large, bold, red font. To the right of the logo is a red button with the white text 'LOG OUT'. Below the header is a table with four columns: 'Name', 'Gender', 'Birthday', and 'Owner'. There are no rows of data in the table.

| Name | Gender | Birthday | Owner |
|------|--------|----------|-------|
|      |        |          |       |

Because you don't have the authority.

## Privilege control with Bubble

I didn't have to be aware of it until now, but Bubble has severely restricted access to Data.

Go to **Data > tab Privacy** on the left menu.

Initially, the data is only accessible to the creator.

Naturally, it's natural.

The screenshot shows the Bubble Privacy settings interface. At the top, there are three items listed: 'Pets' (Privacy rules applied), 'PetWeightLogs' (Privacy rules applied), and 'User' (Privacy rules applied). Below this, a specific rule is defined:

|                                  |   |   |
|----------------------------------|---|---|
| Name                             | Visible to creator  |   |
| When                             | This Pet's Creator is Current User                        |   |
| Users who match this rule can... |   |   |
| View all fields                  | <input checked="" type="checkbox"/> Find this in searches | <input checked="" type="checkbox"/> View attached files |

Below this, there is a section for 'Everyone else (default permissions)' with checkboxes for various fields like Birthday, Gender, etc., and options for 'Find this in searches', 'View attached files', and 'Allow auto-binding'. A blue button at the bottom right says 'Define a new rule'.

Now, if you are an advisor, we will add the authority to see all the data.

- Select `Pets` in the `Privacy` tab
- Click the `Define a new rule` button
- Enter `Visible to advisor` in the Rule name
- Select `Current User``'s Role` `is`` Pet Advisor` for When
  - The condition is that the user is an advisor.

If you are an advisor, you can see the data of all pets.

You can limit the fields that can be referenced for each rule, but this time we will not use it.

- The screen image is on the next page

Data types Privacy App data Option sets File manager

Custom data types Data rules for type Pets

|               |                       |   |
|---------------|-----------------------|---|
| Pets          | Privacy rules applied | Name: Visible to advisor<br>When: Current User's Role is Pet Advisor<br>Users who match this rule can...<br>View all fields <input checked="" type="checkbox"/> Find this in searches <input checked="" type="checkbox"/> View attached files <input checked="" type="checkbox"/> Allow auto-binding <input type="checkbox"/>   |
| PetWeightLogs | Privacy rules applied | Name: Visible to creator<br>When: This Pet's Creator is Current User<br>Users who match this rule can...<br>View all fields <input checked="" type="checkbox"/> Find this in searches <input checked="" type="checkbox"/> View attached files <input checked="" type="checkbox"/> Allow auto-binding <input type="checkbox"/>   |
| User          | Privacy rules applied | Everyone else (default permissions)<br>View all fields<br>Birthday <input type="checkbox"/> Gender <input type="checkbox"/> Image <input type="checkbox"/> Name <input type="checkbox"/> Created Date <input type="checkbox"/><br>Modified Date <input type="checkbox"/> Slug <input type="checkbox"/> Created By <input type="checkbox"/><br>Find this in searches <input type="checkbox"/> View attached files <input type="checkbox"/> Allow auto-binding <input type="checkbox"/> |

[Define a new rule](#)

Now, add rules to PetWeightLogs and Users in the same way.  
The advisor should now be able to see all the data.

# Let's preview

Hooray

## PetLog

[LOG OUT](#)

|   | Name  | Gender | Birthday   | Owner                             |
|---|-------|--------|------------|-----------------------------------|
|    | boo   | Female | 2021/9/14  | kim+2@guildworks.jp               |
|    | kuro  | Female | 2021/11/4  | kim@guildworks.jp                 |
|    | tama  | Male   | 2021/11/2  | kim@guildworks.jp                 |
|    | pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  | コロネ   | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  | マロン   | Male   | 2021/7/4   | kyogoku+bubble_test@guildworks.jp |
|  | ポチ    | Female | 2021/11/1  | kyogoku+bubble_test@guildworks.jp |

I will also make details for the advisor.

This can be made almost by duplication.

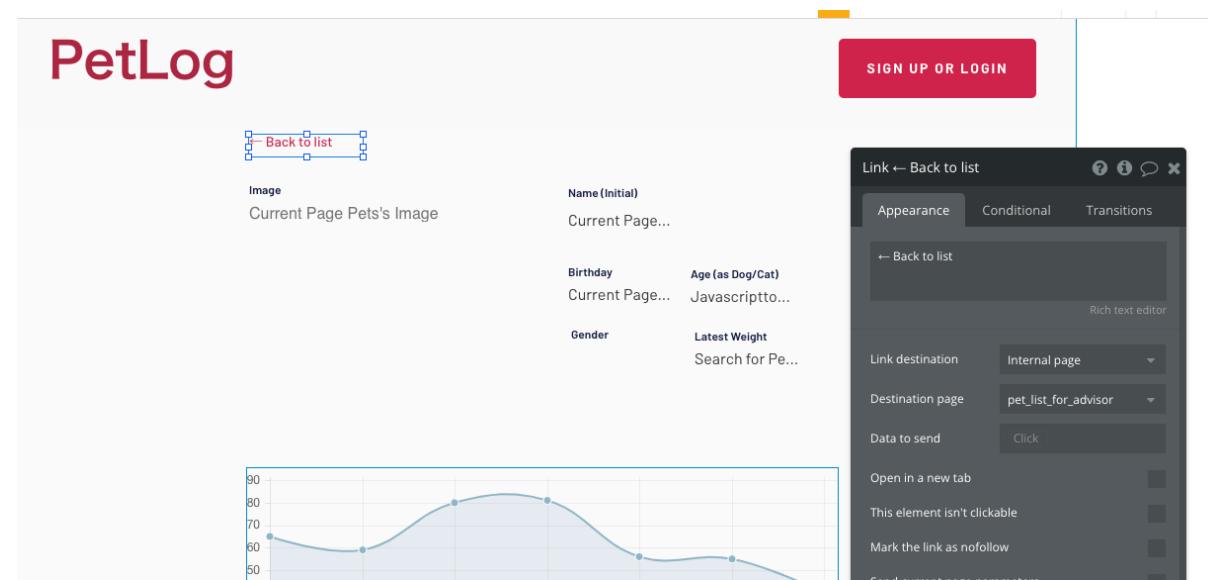
- From the b logo on the upper left, Add a new page ...
- Enter pet\_detail\_for\_advisor for Page name
- Enter pet\_detail in Clone from
- Press the Create button

Create a new page

|   |   |
|---|---|
| Page name   | <input type="text" value="pet_detail_for_advisor"/>             |
| Clone from  | <input style="width: 150px;" type="text" value="pet_detail"/> ▾ |
| <input type="button" value="CREATE"/> <input type="button" value="Cancel"/> |   |

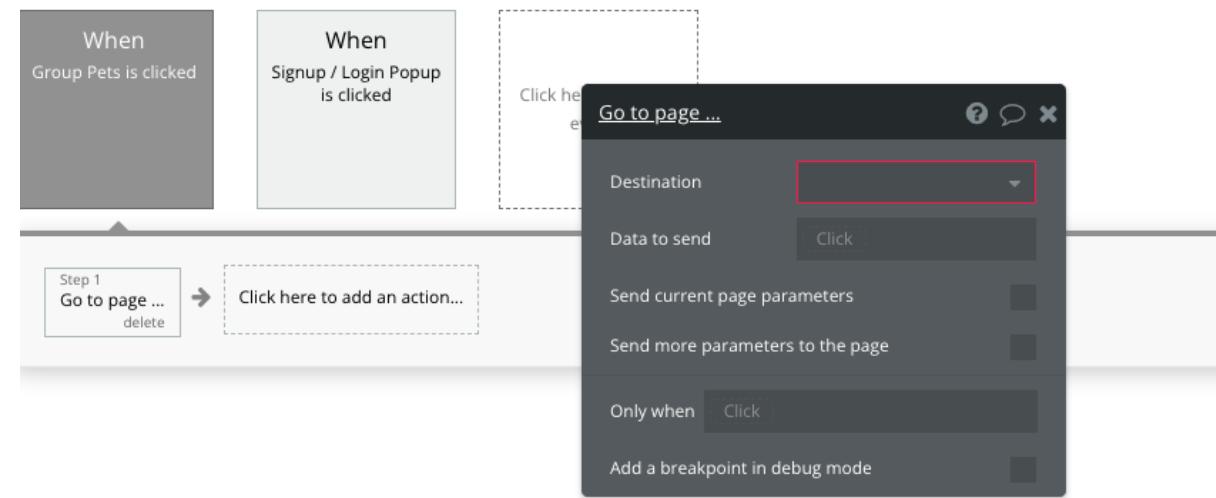
You can leave it as it is, but since you don't need a lead to the update, remove the link between the `UPDATE` button and the `Weight Logs`.

Also, the return destination of the `Back to list` link should be `pet_list_for_advisor`.

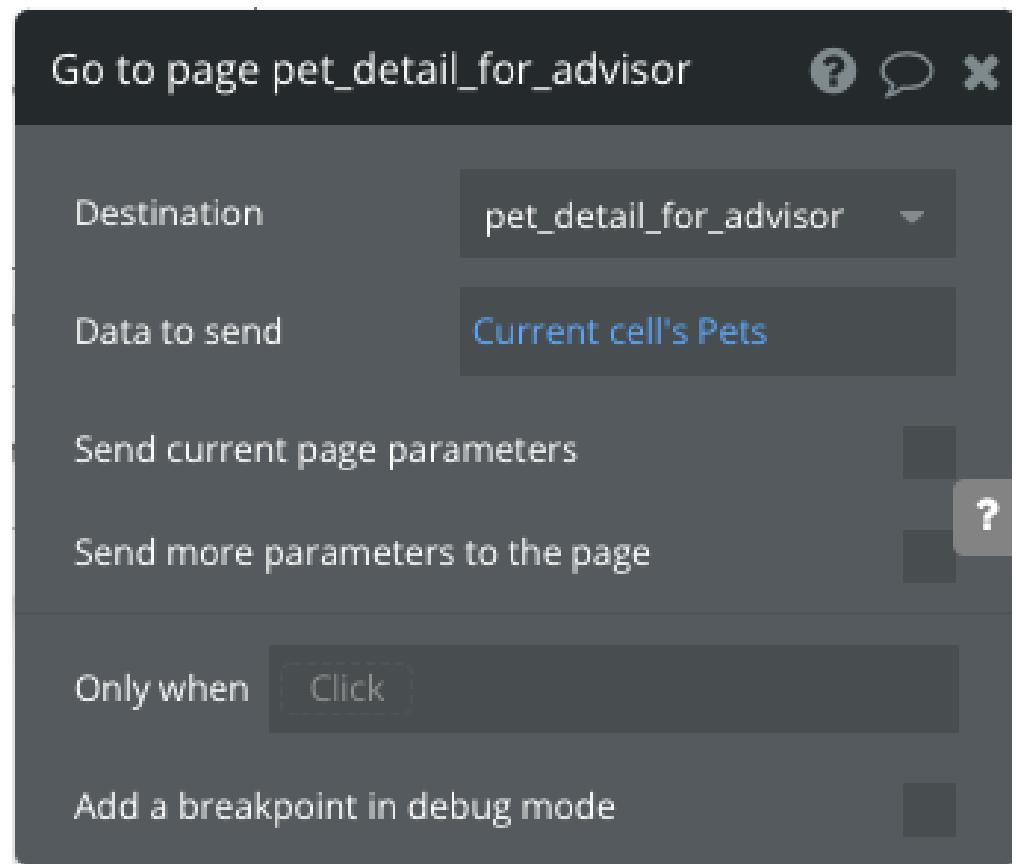


Next, since there is no lead wire from pet\_list\_for\_advisor, we will create it.

- Open the pet\_list\_for\_advisor screen
- Select the Group created in the Repeating Group cell
- Click the Start / Edit workflow button
- Select Click here to add an action > Navigation > Go to page



- Enter `pet_detail_for_advisor` for Destination
- Select `Current cell's Pets` for Data to send



# Let's preview & check the operation

If you click on the line

## PetLog

[LOG OUT](#)

|   | Name  | Gender | Birthday   | Owner                             |
|---|-------|--------|------------|-----------------------------------|
|    | boo   | Female | 2021/9/14  | kim+2@guildworks.jp               |
|    | kuro  | Female | 2021/11/4  | kim@guildworks.jp                 |
|    | tama  | Male   | 2021/11/2  | kim@guildworks.jp                 |
|    | pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  | コロネ   | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  | マロン   | Male   | 2021/7/4   | kyogoku+bubble_test@guildworks.jp |
|  | ポチ    | Female | 2021/11/1  | kyogoku+bubble_test@guildworks.jp |

It was out

# PetLog

LOG OUT

← Back to list

Image



Name (Initial)

pochi (P)

Birthday

2019年11月18日

Age (as Dog/Cat)

2 (24)

Gender

女の子

Latest Weight

5Kg

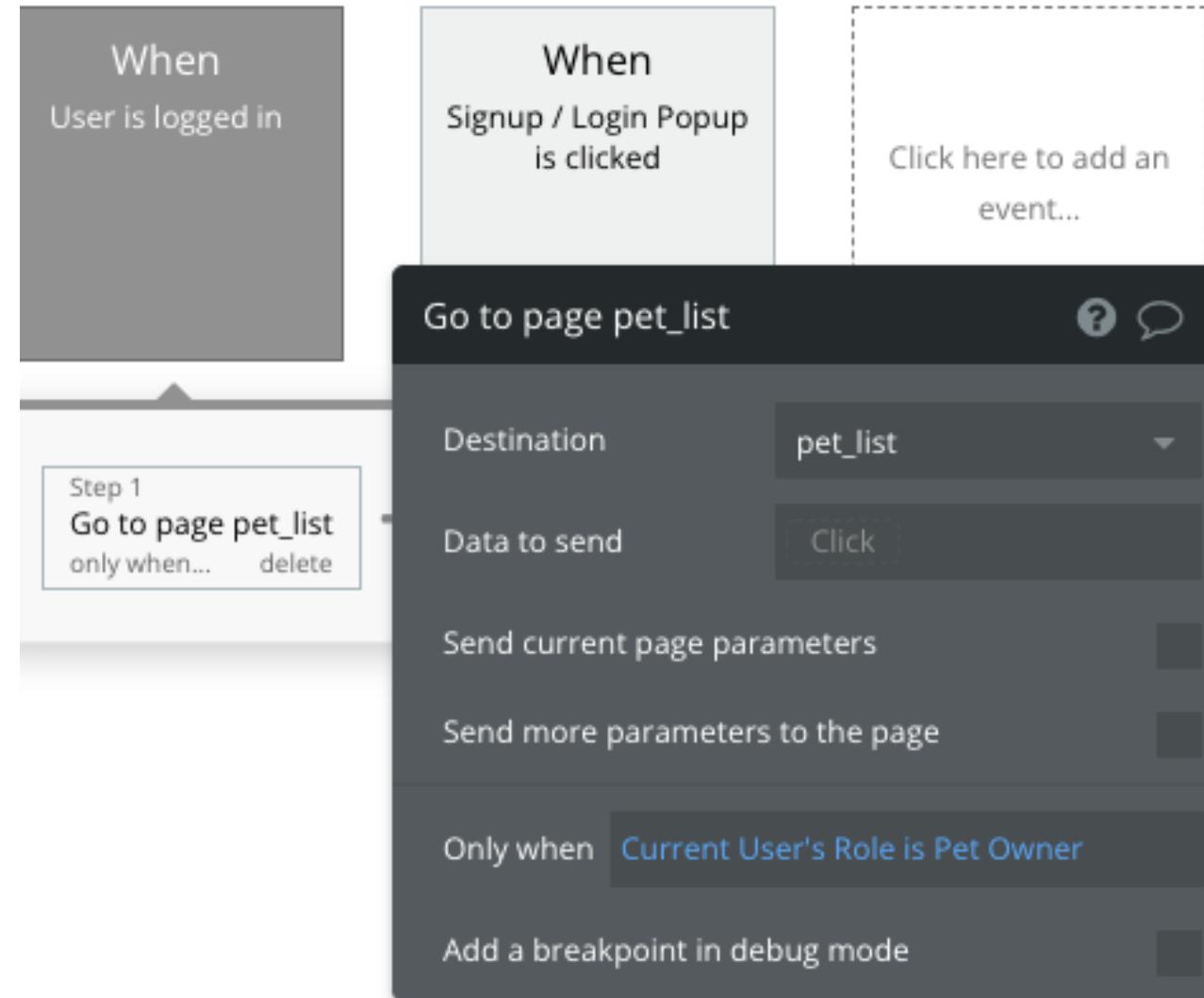


Next, control the transition destination at login.

Actually, if you are already logged in on the top page, you have already set the transition to the pet list. I will edit it.

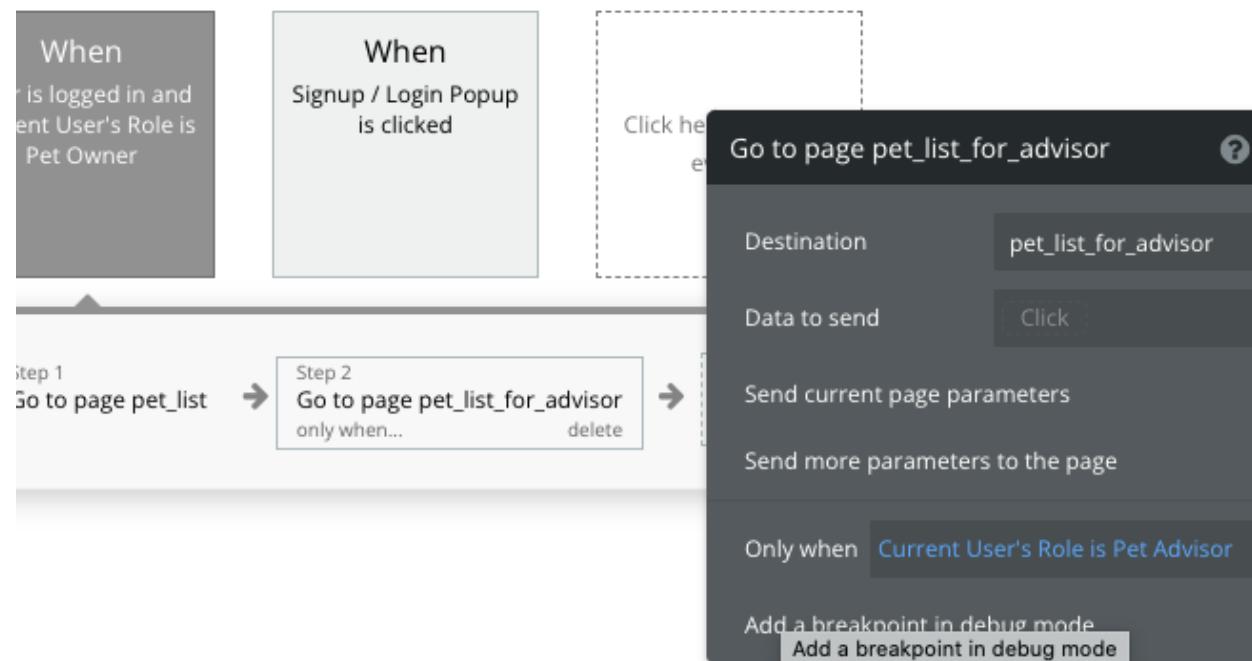
- Open Workflow on index page
- Select User is logged in
- Open the Action settings for Go topage pet\_list
- Select Current User``'s Role is`` Pet Owner for Only when

Only the owner transitions to pet\_list



Next, in the case of an advisor, add an Action that transitions to pet\_list\_for\_advisor.

- Click here to add an action ..
- Click Navigation > Go to page  
...
- The settings will open, so select pet\_list\_for\_advisor as the Destination.
- Select Current User's Role is Pet Advisor for Only when



# Preview & check the operation

After logging in as an advisor

## PetLog

[LOG OUT](#)

|   | Name  | Gender | Birthday   | Owner                             |
|---|-------|--------|------------|-----------------------------------|
|    | boo   | Female | 2021/9/14  | kim+2@guildworks.jp               |
|    | kuro  | Female | 2021/11/4  | kim@guildworks.jp                 |
|    | tama  | Male   | 2021/11/2  | kim@guildworks.jp                 |
|    | pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  | コロネ   | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  | マロン   | Male   | 2021/7/4   | kyogoku+bubble_test@guildworks.jp |
|  | ポチ    | Female | 2021/11/1  | kyogoku+bubble_test@guildworks.jp |

After logging in as the owner

# PetLog

[LOG OUT](#)



pochi



tama



ups kuro

[PET REGISTER](#)

Good

**<Advanced>**

**An account is created by the advisor without permission,**

**Can I see the information without permission?**

<Advanced>

**Let's prevent you from starting use without approval by the system administrator**

**<Advanced>**

## I will do the following

- Add a field to your user information to indicate if you are approved as an advisor
- Data access must be approved as well as advisor
- A message is sent to the pet list for advisors saying that it is under review if it is not approved.

## <Advanced>

### Add a field to your user information to see if you are approved as an advisor

- From the left menu, click **User** in **Data types >** on the **Data >** tab.
- Click the **Create a new field** button at the bottom right of the screen
- Enter **Approved As Advisor** for the Field name
- Select **yes / no** for Field type
- Click the Create button

Create a new field

|  |                     |
|--|---------------------|
| Field name   | Approved As Advisor |
| Field type   | yes / no            |
| This field is a list (multiple entries) <input type="checkbox"/> |                     |
| <b>CREATE</b>  | <b>Cancel</b>       |

## <Advanced>

There is a column called `default` in the added field, so set `no`.

At the time of creation, it will be in an unapproved state.

The screenshot shows the 'Data types' section of a software interface. At the top, there are tabs for 'Data types', 'Privacy', 'App data', 'Option sets', and 'File manager'. Below these, there are sections for 'Custom data types' and 'Fields for type User'. On the left, there's a list of existing data types: 'Pets', 'PetWeightLogs', and 'User'. Each item has a 'Privacy rules applied' section and a trash can icon. A 'New type' input field is present, along with a checkbox for making the type private by default and a 'Create' button. The 'Fields for type User' section lists several fields: 'Approved As Advisor' (type: yes / no, default: no), 'Role' (type: Role, default: dropdown menu), 'email' (type: text, status: Built-in field), 'Modified Date' (type: date, status: Built-in field), 'Created Date' (type: date, status: Built-in field), and 'Slug' (type: text, status: Built-in field). A red box highlights the 'Approved As Advisor' row. At the bottom of the 'Fields for type User' section is a 'Create a new field' button.

| Type name | Field Name          | Type     | Status                |
|-----------|---------------------|----------|-----------------------|
| User      | Approved As Advisor | yes / no | default no            |
| User      | Role                | Role     | default dropdown menu |
| User      | email               | text     | Built-in field        |
| User      | Modified Date       | date     | Built-in field        |
| User      | Created Date        | date     | Built-in field        |
| User      | Slug                | text     | Built-in field        |

## <Advanced>

For existing users, leave all `Approved As Advisor` as `no`  
(It's troublesome and sloppy ... but it's important!)

|                          | Email                                | Approved As Advisor | Role        |    |
|--------------------------|--------------------------------------|---------------------|-------------|----|
| <input type="checkbox"/> | Run as → kim+advisor3@guildworks.jp  | no                  | Pet Advisor | Ni |
| <input type="checkbox"/> | Run as → kim+2@guildworks.jp         | no                  | Pet Owner   | Ni |
| <input type="checkbox"/> | Run as → kim+advisor2@guildworks.jp  | no                  | Pet Owner   | Ni |
| <input type="checkbox"/> | Run as → kim+advisor@guildworks.jp   | no                  | Pet Owner   | Ni |
| <input type="checkbox"/> | Run as → kim@guildworks.jp           | no                  | Pet Owner   | Ni |
| <input type="checkbox"/> | Run as → kyogoku+bubble_test2@guildw | no                  | Pet Owner   | Ni |
| <input type="checkbox"/> | Run as → kyogoku+bubble_test@guildwo | no                  | Pet Owner   | Oi |

## <Advanced>

### See also if access to data is authorized

- From the left menu, click `Pets` in `Privacy >` on the `Data >` tab.
- Click `Pet Advisor` at the end of the part where the `When` condition of `Visible to advisor` is described.  
-- "More" will appear, so click `More``
- Select `and`` Current User ``'s Approved As Advisor``` is "yes"
- Do the same for `User` and `PetWeightLogs`

<Advanced>

Let's check the operation

Try logging in as a user whose Approved As Advisor is no

The screenshot shows a user interface for 'PetLog'. At the top left is the 'PetLog' logo in red. At the top right is a red 'LOG OUT' button. Below the header, there is a table with four columns: 'Name', 'Gender', 'Birthday', and 'Owner'. The table currently has one row of data. The 'Owner' column contains the text 'Approved As Advisor' with a value of 'no'.

| Name | Gender | Birthday | Owner                     |
|------|--------|----------|---------------------------|
|      |        |          | Approved As Advisor<br>no |

Alright

## <Advanced>

What if the Approved As Advisor is yes ?

# PetLog

[LOG OUT](#)

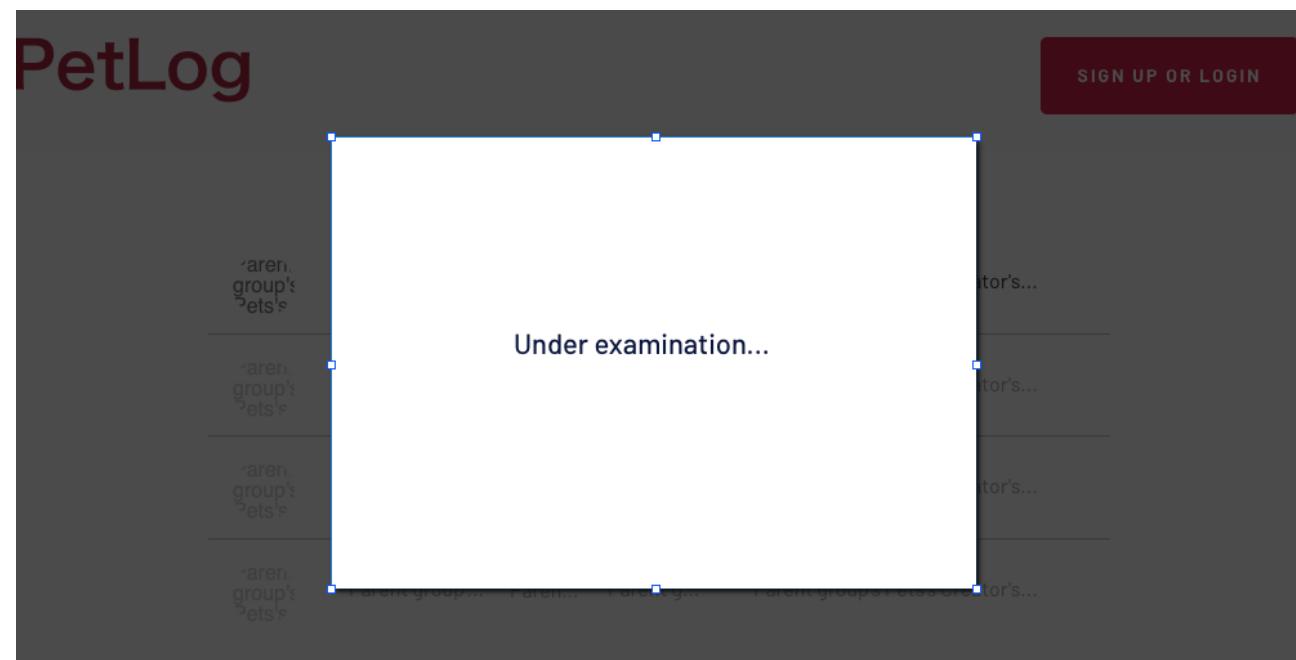
|   | Name  | Gender | Birthday   | Owner                             |
|---|-------|--------|------------|-----------------------------------|
|    | boo   | Female | 2021/9/14  | kim+2@guildworks.jp               |
|    | kuro  | Female | 2021/11/4  | kim@guildworks.jp                 |
|    | tama  | Male   | 2021/11/2  | kim@guildworks.jp                 |
|    | pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  | コロネ   | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  | マロン   | Male   | 2021/7/4   | kyogoku+bubble_test@guildworks.jp |

Alright

## <Advanced>

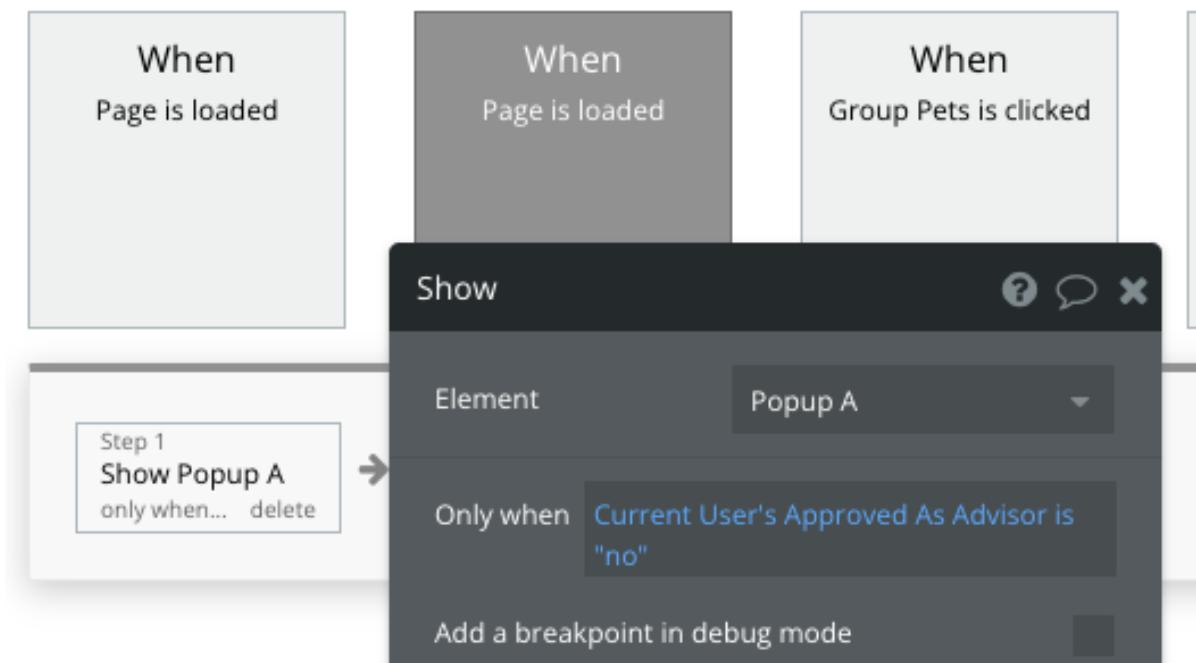
If it is not approved, it will send a message that it is under review.

- Open the Design menu on the pet\_list\_for\_advisor screen
- Add Popup
- Add a text Element above Popup and write a message that it is under review



## <Advanced>

- Go to Workflow from the menu
- Click here to add an event .. >  
Page is loaded`
- Click here to add an action .. >  
Element Actions > Show`
- Specify Popup A for Element
- Specify Current User``'s  
Approved As Advisor is" no  
" for Only when



<Advanced>

## Let's check the operation

If yes advisor

### PetLog

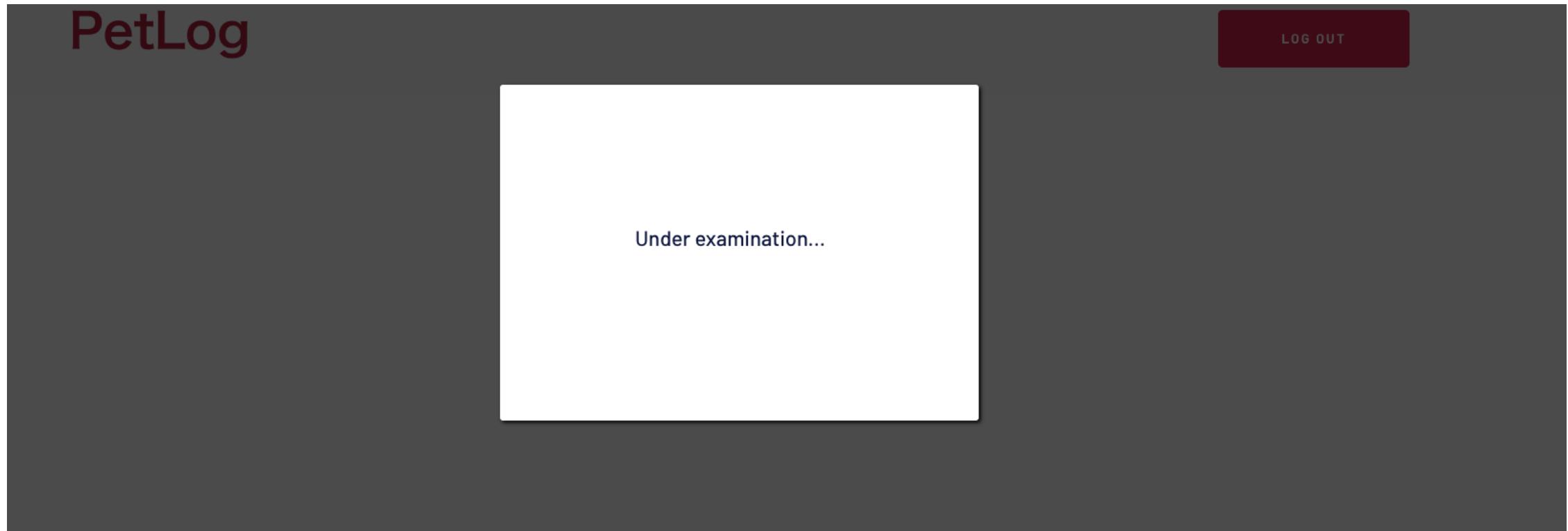
[LOG OUT](#)

| Name   | Gender | Birthday   | Owner                             |
|--|--------|------------|-----------------------------------|
|  boo    | Female | 2021/9/14  | kim+2@guildworks.jp               |
|  kuro   | Female | 2021/11/4  | kim@guildworks.jp                 |
|  tama   | Male   | 2021/11/2  | kim@guildworks.jp                 |
|  pochi | Female | 2019/11/18 | kim@guildworks.jp                 |
|  コロネ  | Male   | 2019/10/1  | kyogoku+bubble_test@guildworks.jp |
|  マロン  | Male   | 2021/7/4   | kyogoku+bubble_test@guildworks.jp |

Alright

<Advanced>

If no



Alright

**<Advanced>**

**How do system administrators notice?**

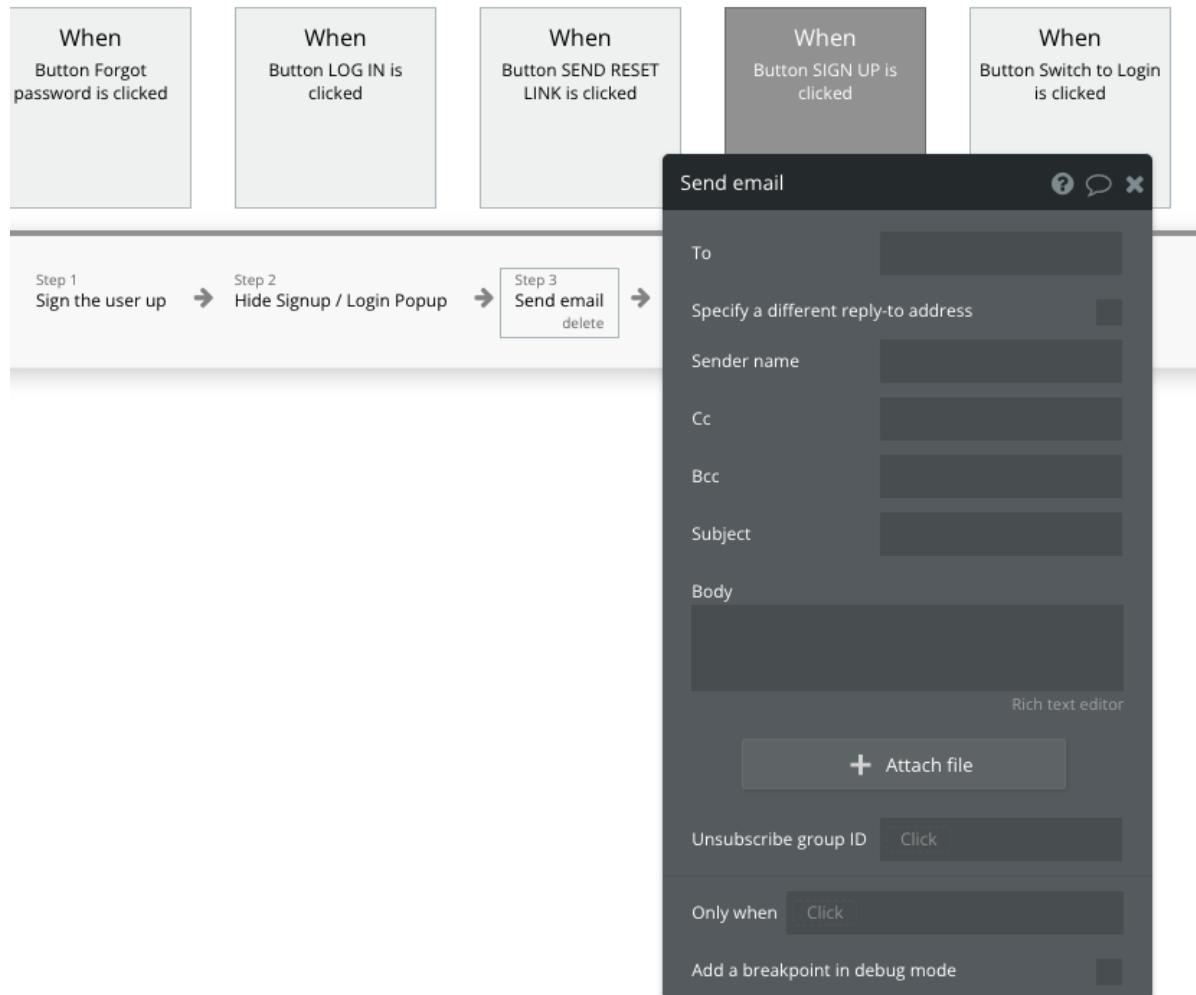
**<Advanced>**

**Once you have registered as an advisor, let your system administrator be notified by email.**

## <Advanced>

# Let your system administrator be notified by email

- Open the Signup / Login Popup page
- Go to Workflow from the menu and select Button SIGN UP is clicked
- Click here to ad an action ... > Email > Send Email



## <Advanced>

- Set your email address in To
- Sender name is PetLog
- Subject is New Advisor Registered
- Body selects Input Email (sign up)'s value with dynamic data insert below

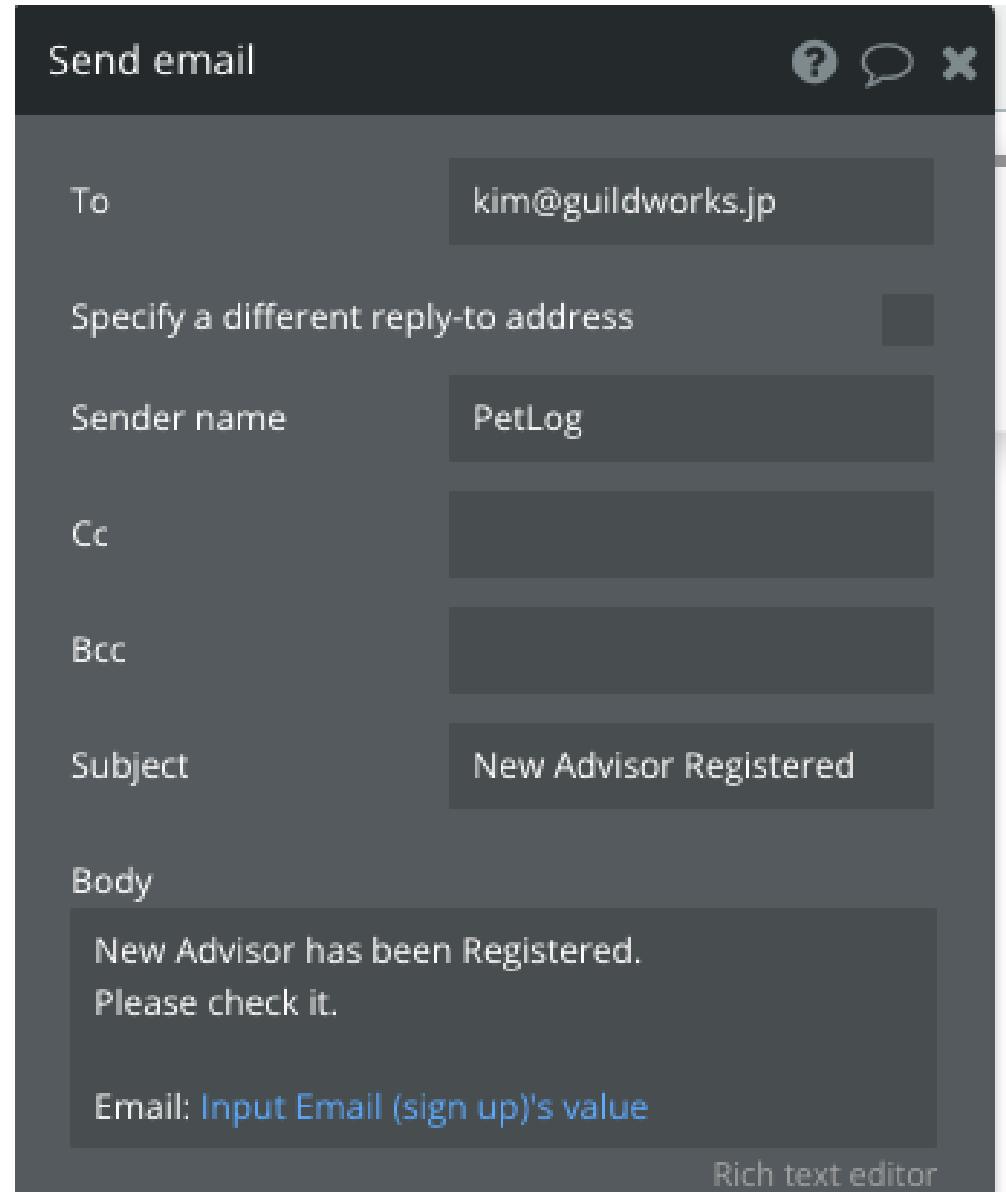
....

New Advisor has been  
Registered.

Please check it.

Email:

....



## <Advanced>

- Select `Dropdown Role``'s value` is `` Pet Advisor for Only When

Only when `Dropdown Role's value is Pet Advisor`  
Add a breakpoint in debug mode

<Advanced>

## Let's check the operation

After signing up with an advisor

### PetLog

New Advisor Registered

宛先: kim@guildworks.jp,

返信先: titech-bubble-2-suburi-2021119-no-reply@bubbleapps.io

---

New Advisor has been Registered.

Please check it.

Email: [kim+advisor4@guildworks.jp](mailto:kim+advisor4@guildworks.jp)

Kita Kita

**<Advanced>**

If you are the owner

Yeah, it doesn't come. Yay

**<Advanced>**

## **Exercise**

Let's create a function that allows the advisor to approach the owner, or the owner to the advisor.

- Example: You can send advice to the owner
- Example: You can place an advertisement
- Example: You can consult with an advisor, etc.

## **Today's review**

## I made a design

- I made a screen that fits the display size
  - Using a technique called responsive web design, we controlled the appearance as follows according to the display size.
    - Stretch / shrink
    - Wrap / Do not wrap
    - Display / Do not display
- I tried using Style
  - Editing / adding Styles and applying styles individually

## I made the logic

- Returned feedback on screen operations
- Data was extracted and processed
- The screen was switched according to the authority

We saw together that we could embed logic in various places with Bubble.

# Finally

This concludes the basic lecture on Bubble.

Next week, I'm thinking about applying Adalo and Bubble.

There are many features that I couldn't touch,  
Bubble has a lot of manuals and references, so  
If you adopt Bubble, please take advantage of it.

The manual is here.

<https://manual.bubble.io/>

The reference will appear when you hover over something you don't know on the screen.  
Links to references will emerge for most features.

**Thank you!**