Programming Boot Camp

Connecting Bubble and Vercel API

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In the learning phase up to this point

- Development of Web applications using Bubble
- Development of Web API using Vercel

Web API development using Vercel

With the knowledge up to this point, you can make the connection between the two!

So let's try it as an exercise!

Used by.

- Bubble application created in the 2nd session
- Vercel application created in the 4th session (already deployed)

Let's combine them to realize the following functions

- Step1. Get pet list data from Vercel API
- Step2. Get detailed pet data from Vercel API
- Step3. Pet registration via Vercel API
- Step4. Pet weight display & weight registration with Vercel API
- 1 To make it an exercise, only hints are given thereafter.
- Those who have completed the development process will receive a copy of the Bubble application for their answers, which they can use to test their answers.

If you have finished that in plenty of time, too, you can proceed here in a more advanced way!

Step5. Search the list of pets by name

- This one needs to address Prisma as well, so please try to pair up with someone to go ahead with it if possible!
- One of you will revamp the Prisma side
- The other one is to revamp the Bubble side <a>\mathbb{L}.

First, let me show you the finished application ••



In every step, there are two main things you need to do

- Set up a connection between Bubble and Vercel API.
- Connect Bubble to Vercel API and display the screen.

Let's try it!

If you have not attended some or all of the previous Learning Phases, please let us know if you need the following so we can share it with you!

- Bubble application created in the 2nd session
- Vercel application created in the 4th session (already deployed)

Here's a hint







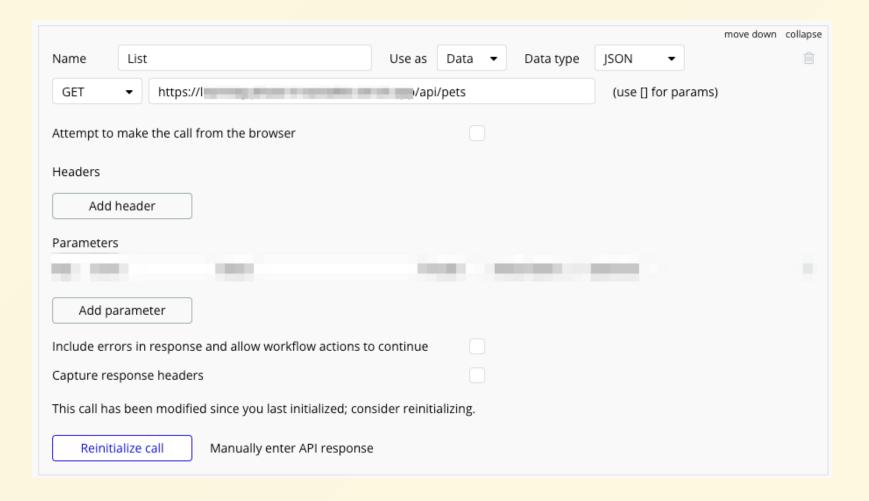






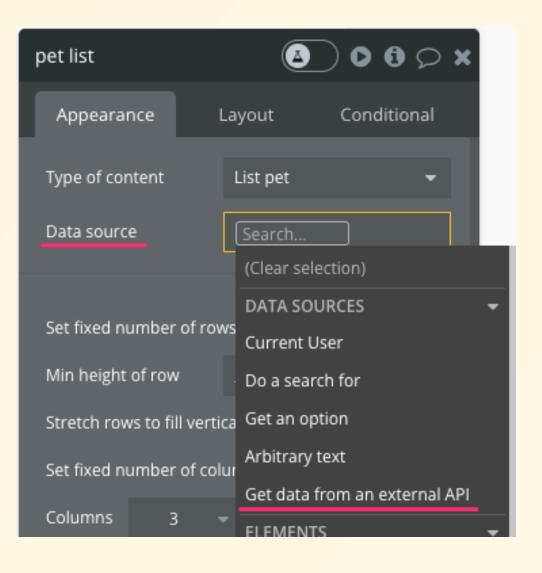


Bubble's API Connector configuration looks like this



 When calling the API from the Data source for each data display item, it is
 Get data from an external API

,







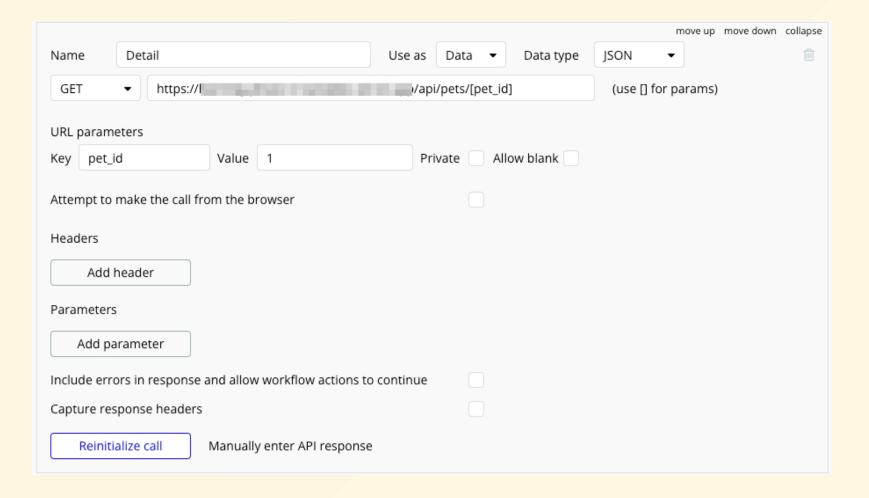








Bubble's API Connector configuration looks like this



- When moving from the list screen to the detail screen, only the ID of the pet is passed.
- Since Data to send is not available, use Send more parameters to the page instead.
- Then, on the detail screen, When the screen is displayed, call the API to get the pet's details using the pet's ID received by the URL parameter.
- The result is stored in the detail screen itself using Bubble's Custom state function.
 - This part may be a little difficult
- Then, each item on the detail screen is displayed based on the value stored in the state.













Bubble's API Connector configuration looks like this

| | | | | | | | | | | | move un | move down | collans |
|---|--|-------------------|--|-----------------------------------|--------|------------|-----|-----------|------|----------|----------|-----------|---------|
| Nam | e | Register | | U | se as | Action | ٠ - | Data type | JSON | • | niove up | move down | Collaps |
| PO | POST ▼ https://l | | | | | i/api/pets | | | | [] for p | | | |
| Head | lers | | | | | | | | | | | | |
| | Add | header | | | | | | | | | | | |
| Body | type | JSON | • | | | | | | | | | | |
| Parai | meters | 5 | | | | | | | | | | | |
| | Add pa | arameter | | | | | | | | | | | |
| Body | (JSON | object, use <> fo | or dynam | nic values) | | | | | | | | | |
| 1 2 3 4 5 6 7 8 9 | { "pet "na "im "bi "ge "ov } } | | me>", _image_ _birthda ender>" | url>", y>T00:00:00.000Z", , | | | | | | | | | |
| Body | paran | neters | | | | | | | | | | | |
| Key | pet_i | name | Value | tara | Pri | ivate | Al | low blank | | | | | |
| Key | pet_i | mage_url | Value | https://www.google.co | m/ Pri | ivate | Al | low blank | | | | | |
| Key | pet_l | birthday | Value | 2023-11-23 | Pri | ivate | Al | low blank | | | | | |
| Key | pet_ | gender | Value | Female | Pri | ivate | Al | low blank | | | | | |
| Inclu | de err | ors in response | and allow | workflow actions to con | tinue | | | | | | | | |
| Capt | ure res | sponse headers | | | | | | | | | | | |
| | Reiniti | alize call | Manuall | y enter API response | | | | | | | | | |











Step4. Pet weight display & weight registration with Vercel API

Bubble's API Connector configuration looks like this

| | | | | | | | | | | | n | nove up | move down | collap |
|----------------------------|------------------------------------|--------------------------|--|-------|----------------------|----------|-----------|--------|------------|--------|----------|---------|-----------|--------|
| Name | е | Wei | ght Register | | | Use a | as Actio | n 🕶 | Data type | JSON | • | | | |
| POS | ST | • | https://learni | ng-p | hase-4-naotakke.ver | cel.app/ | api/pets/ | [pet_i | d]/weights | (use [|] for pa | arams) | | |
| LIDI « | oarame | .+ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Key | pet_i | d | Va | lue | 1 | | Private | Al | llow blank | | | | | |
| Head | lers | | | | | | | | | | | | | |
| | Add h | neade | er | | | | | | | | | | | |
| Body | type | | JSON • | | | | | | | | | | | |
| Parar | neters | | | | | | | | | | | | | |
| - A | Add pa | rame | ter | | | | | | | | | | | |
| Body | (JSON | obje | t, use <> for dy | /nan | nic values) | | | | | | | | | |
| 1 2 3 4 5 6 | { "weig "we "pe } } | ght": eight' tld": | { ': <weight>, <pet_id></pet_id></weight> | | | | | | | | | | | |
| Body | param | eters | 5 | | | | | | | | | | | |
| Key | weigh | nt | Va | lue | 12 | | Private | Al | llow blank | | | | | |
| Key | pet_i | d | Va | lue | 1 | | Private | Al | llow blank | | | | | |
| Includ | de erro | rs in | response and | allov | workflow actions to | continu | ie | | | | | | | |
| Captu | ure res | pons | e headers | | | | | | | | | | | |
| | Reinitia | alize o | all Mar | nuall | y enter API response | ! | | | | | | | | |

- The pet weight display is included in the results of the API we prepared for the pet details screen, so we can use that!
- The concept of registering a pet's weight is similar to that of registering a pet, so we can use that as a reference.













Here's what the Prisma side of the renovation looks like

Pull request for additional search criteria

Here's what the Bubble side of the renovation looks like

• This is a form of changing the settings for acquiring a list prepared above.

| | | | | | | | | | | move dov | vn collapse |
|------------|--------------------|----------------|-----------------|----------|--------|-------|-----------|----------|---------|----------|-------------|
| Name | List | | | Use as | Data | • | Data type | JSON | • | | |
| GET | ▼ https://l | | | /api | /pets | | | (use [] | for par | rams) | |
| Attempt t | o make the call fr | om the browse | r | | | | | | | | |
| Headers | | | | | | | | | | | |
| Add | d header | | | | | | | | | | |
| Paramete | rs | | | | | | | | | 1 | |
| Key nar | me | Value | | Pri | vate 📗 | Allow | v blank 🕢 | Optional | | | |
| Add | parameter | | | | | | | | | | |
| Include er | rors in response | and allow work | flow actions to | continue | | | | | | | |
| Capture r | esponse headers | | | | | | | | | | |











That's all!

Thank you for your hard work!