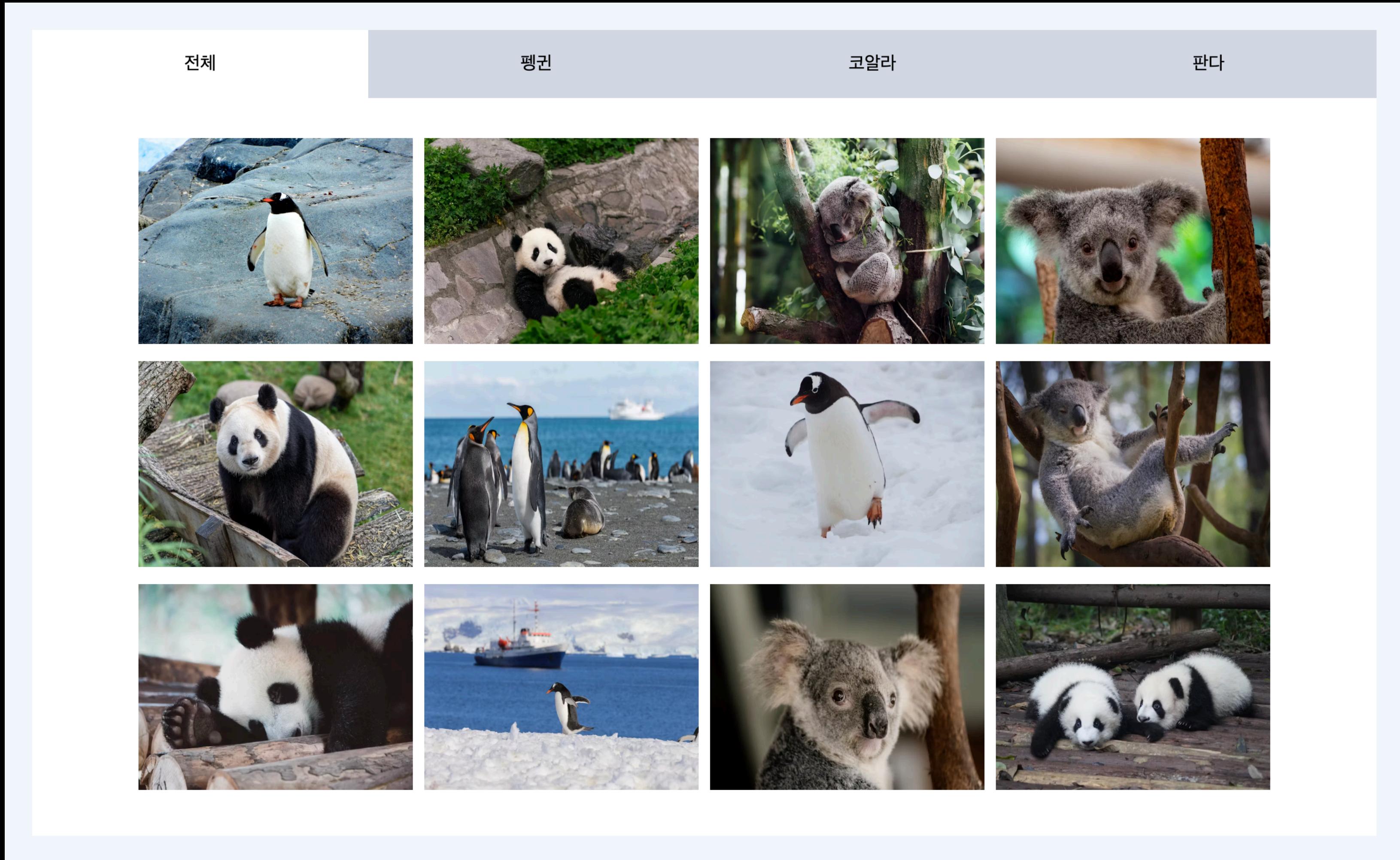


06. 컴포넌트와 모듈 시스템

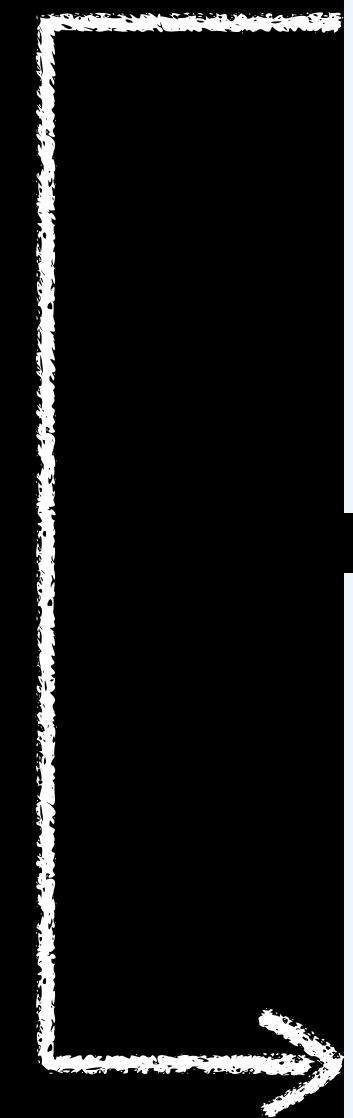
컴포넌트

여러가지 문제점



여러가지 문제점

지연시간 발생



전체

펭귄

코알라

판다



여러가지 문제점

중복 코드 작성

JS panda.js X

```
src > JS panda.js > [Θ] getData
1  const API_URL = 'https://animal-api-two.vercel.app/';
2
3  const $content = document.querySelector('div.content');
4  let template = [];
5
6  //API
7  const getData = async (name) => {
8      let res = await fetch(` ${API_URL} ${name}`);
9      try {
10          if (res) {
11              let data = await res.json();
12              data.photos.forEach((elm) => {
13                  template += `</img>`;
14              });
15              $content.innerHTML = template;
16          }
17      } catch (err) {
18          console.log(err);
19      }
20  };
21  getData('panda');
22
23
```

JS penguin.js X

```
src > JS penguin.js > ...
1  const API_URL = 'https://animal-api-two.vercel.app/';
2
3  const $content = document.querySelector('div.content');
4  let template = [];
5
6  //API
7  const getData = async (name) => {
8      let res = await fetch(` ${API_URL} ${name}`);
9      try {
10          if (res) {
11              let data = await res.json();
12              data.photos.forEach((elm) => {
13                  template += `</img>`;
14              });
15              $content.innerHTML = template;
16          }
17      } catch (err) {
18          console.log(err);
19      }
20  };
21  getData('penguin');
22
23
```

여러가지 문제점

중복 코드 작성

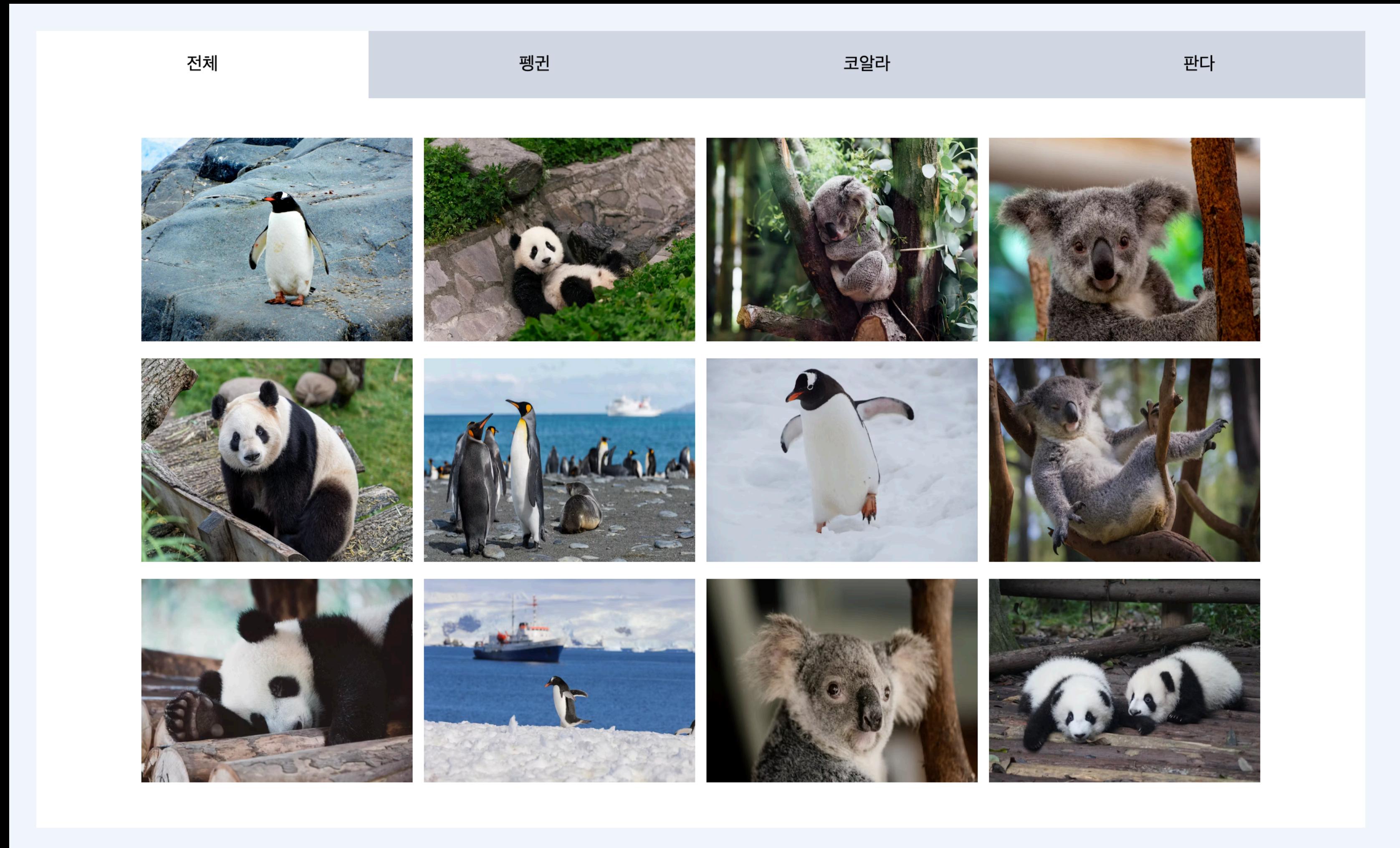
panda.html > body > div#app > div.tab-bar > a

```
1  <!DOCTYPE html>
2  <head>
3      <title>Animal Album</title>
4      <meta charset="UTF-8" />
5      <link rel="stylesheet" href="./src/styles.css" />
6  </head>
7  <body>
8      <div id="app">
9          <div class="tab-bar">
10         <a href="/"><div>전체</div></a>
11         <a href="/penguin.html"><div>펭귄</div></a>
12         <a href="/koala.html"><div>코알라</div></a>
13         <a href="/panda.html"><div class="clicked">판다</div></a>
14     </div>
15     <div class="content"></div>
16 </div>
17     <script src="./src/panda.js"></script>
18 </body>
```

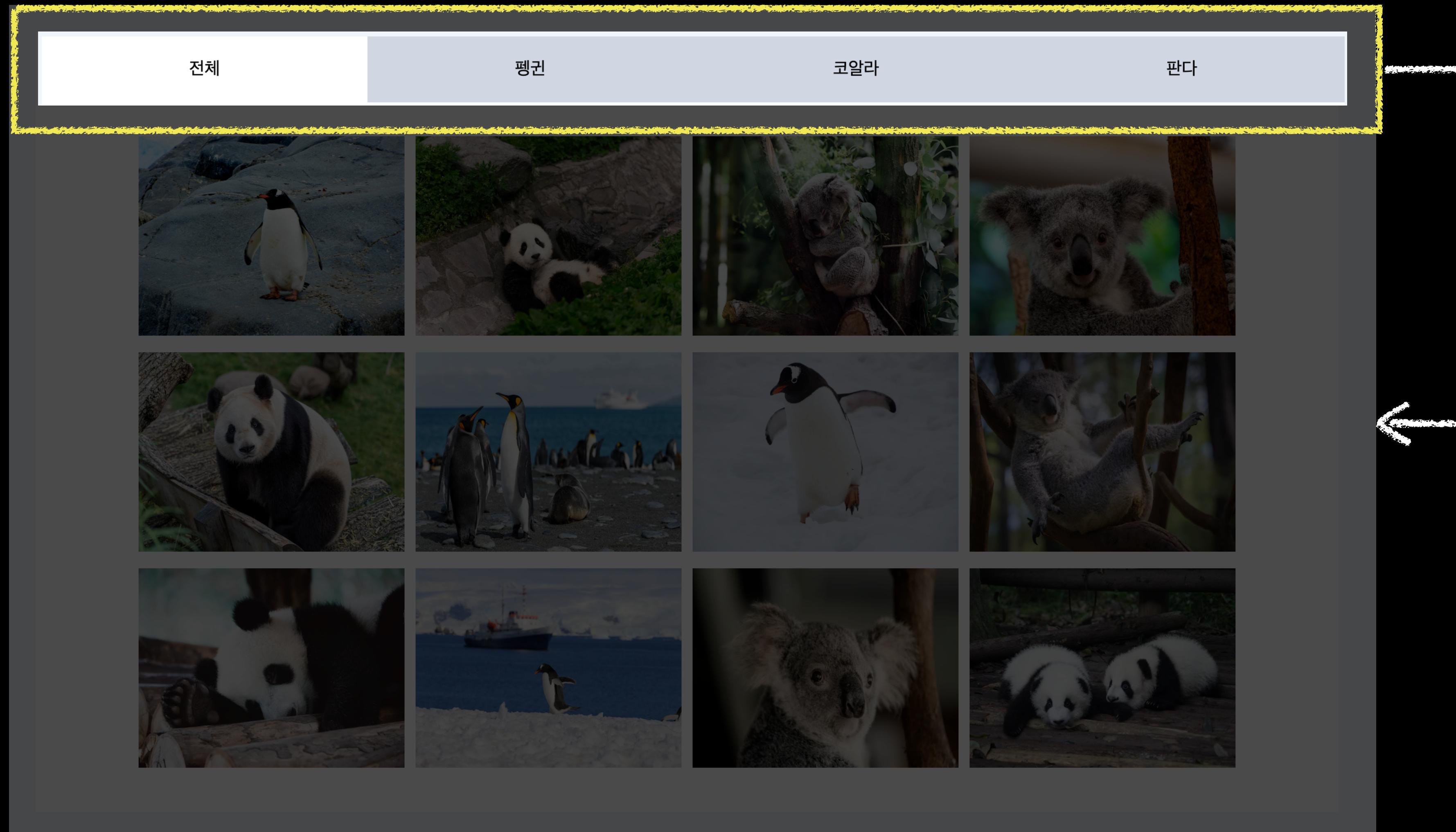
index.html > ...

```
1  <!DOCTYPE html>
2  <head>
3      <title>Animal Album</title>
4      <meta charset="UTF-8" />
5      <link rel="stylesheet" href="./src/styles.css" />
6  </head>
7  <body>
8      <div id="app">
9          <div class="tab-bar">
10         <a href="/"><div class="clicked">전체</div></a>
11         <a href="/penguin.html"><div>펭귄</div></a>
12         <a href="/koala.html"><div>코알라</div></a>
13         <a href="/panda.html"><div>판다</div></a>
14     </div>
15     <div class="content"></div>
16 </div>
17     <script src="./src/index.js"></script>
18 </body>
```

컴포넌트

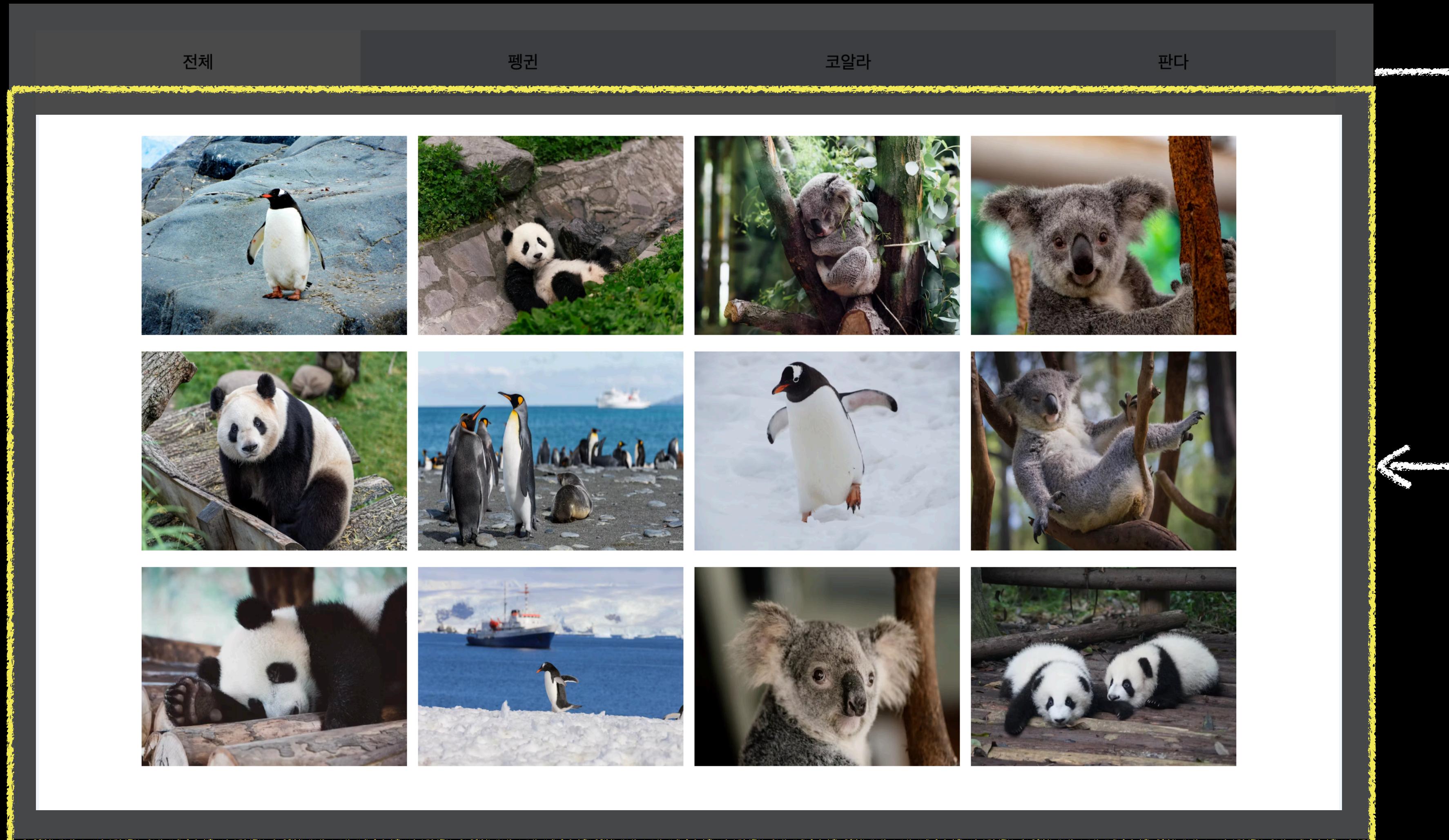


컴포넌트



api 호출

컴포넌트



api 호출

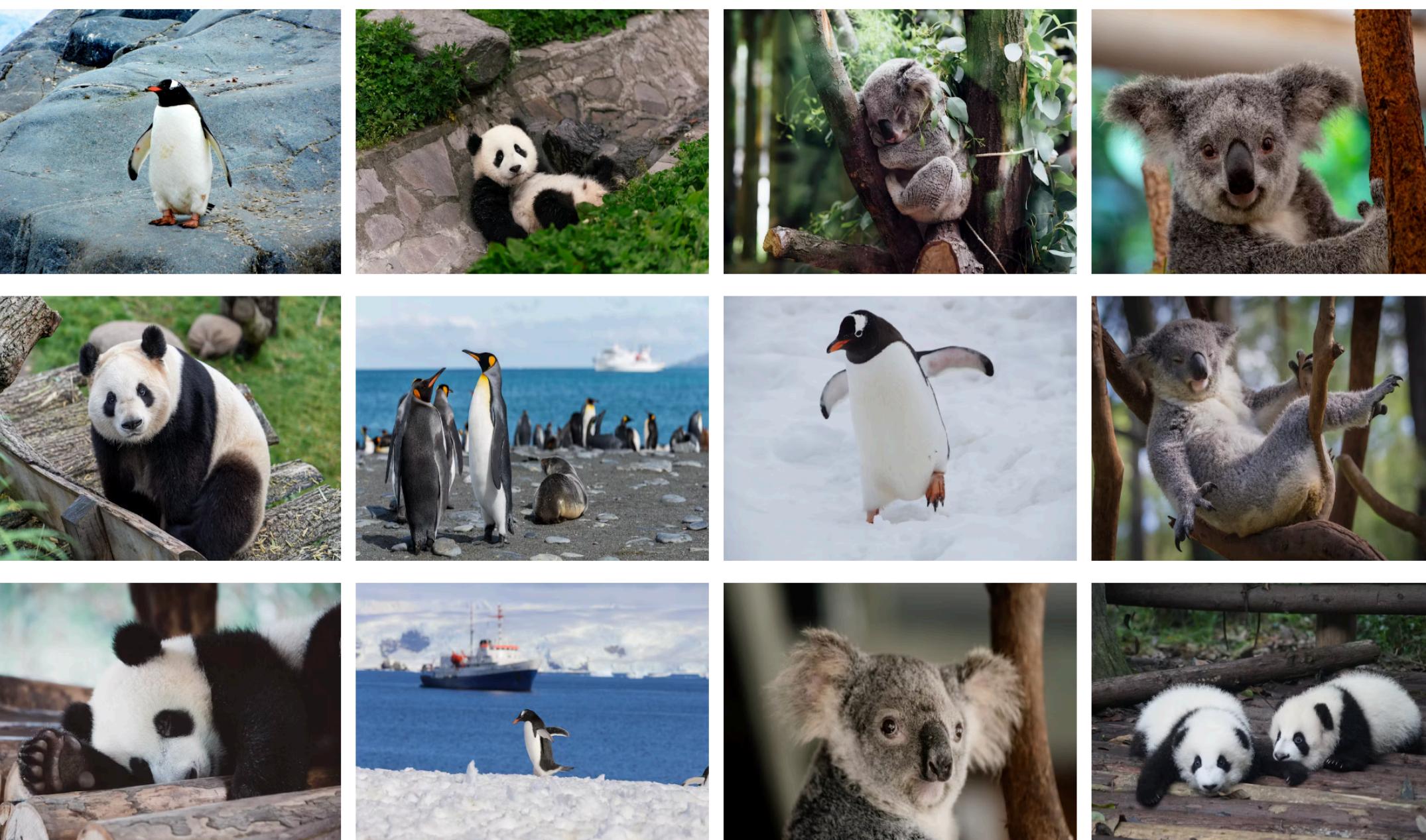
컴포넌트

전체

펭귄

코알라

판다



버튼 (tab-bar)

알맞은 동물 사진 표시 (content)

컴포넌트

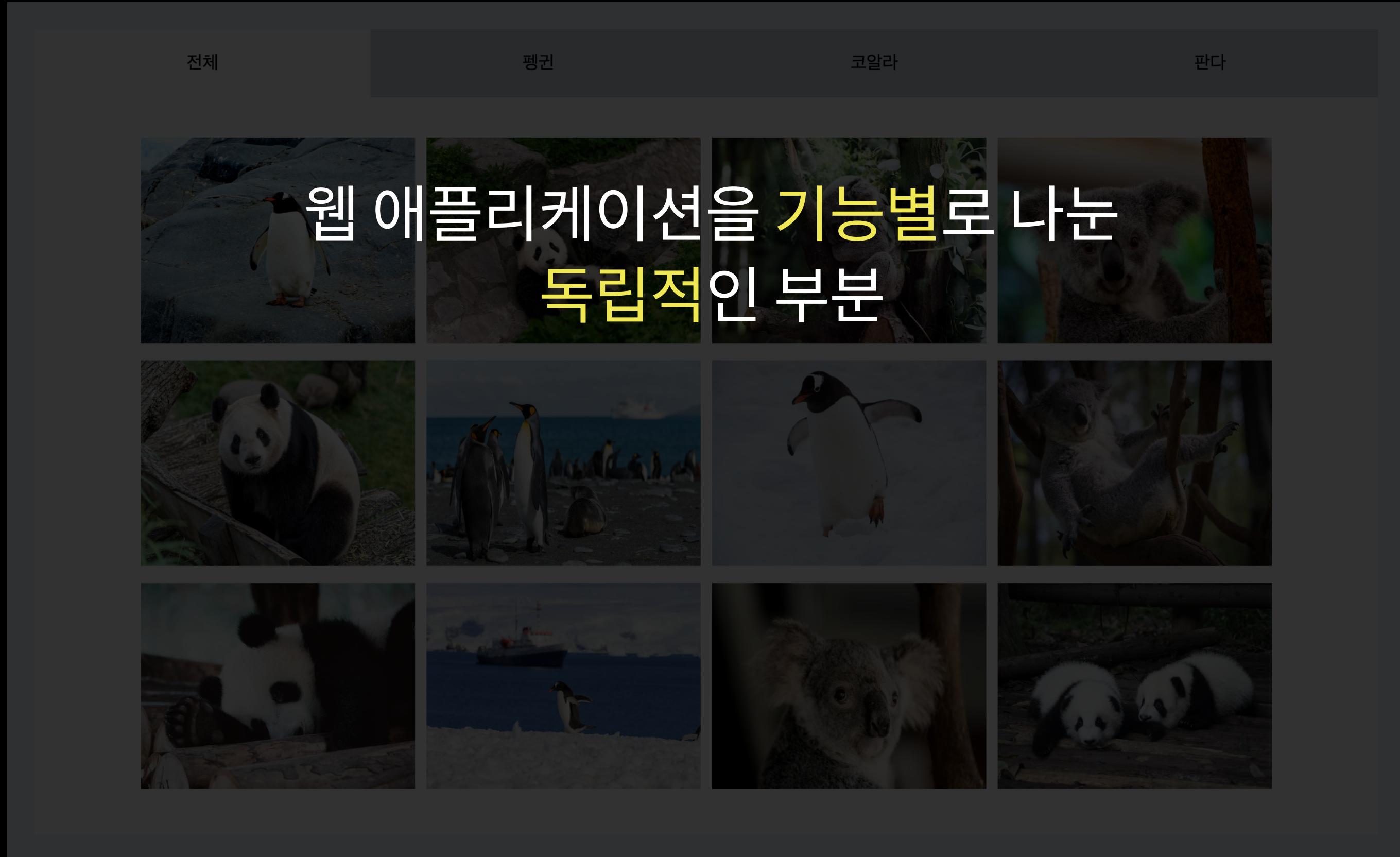
```
index.html > ...
1  <!DOCTYPE html>
2  <head>
3      <title>Animal Album</title>
4      <meta charset="UTF-8" />
5      <link rel="stylesheet" href="./src/styles.css" />
6  </head>
7  <body>
8      <div id="app">
9          <div class="tab-bar">
10         <a href="/"><div class="clicked">전체</div></a>
11         <a href="/penguin.html"><div>펭귄</div></a>
12         <a href="/koala.html"><div>코알라</div></a>
13         <a href="/panda.html"><div>판다</div></a>
14     </div>
15     <div class="content"></div>
16 </div>
17 <script src="./src/index.js"></script>
18 </body>
```

버튼 (tab-bar)

알맞은 동물 사진 표시 (content)

컴포넌트

컴포넌트란

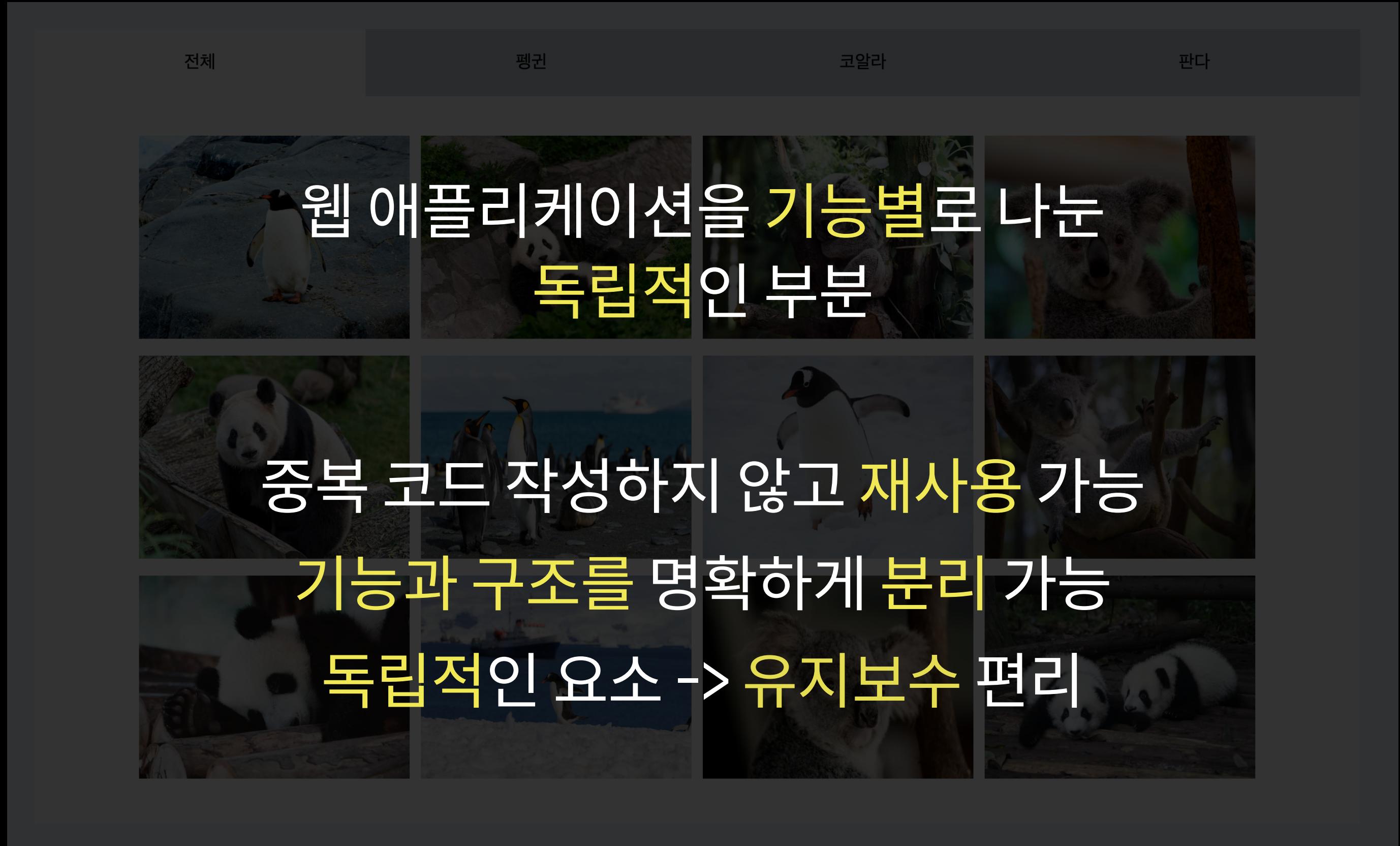


버튼 (tab-bar)

알맞은 동물 사진 표시 (content)

컴포넌트

컴포넌트의 필요성



버튼 (tab-bar)

알맞은 동물 사진 표시 (content)

컴포넌트와 모듈

버튼 클릭



TabBar.js

사진 표시



Content.js

컴포넌트

API 호출

JS panda.js X

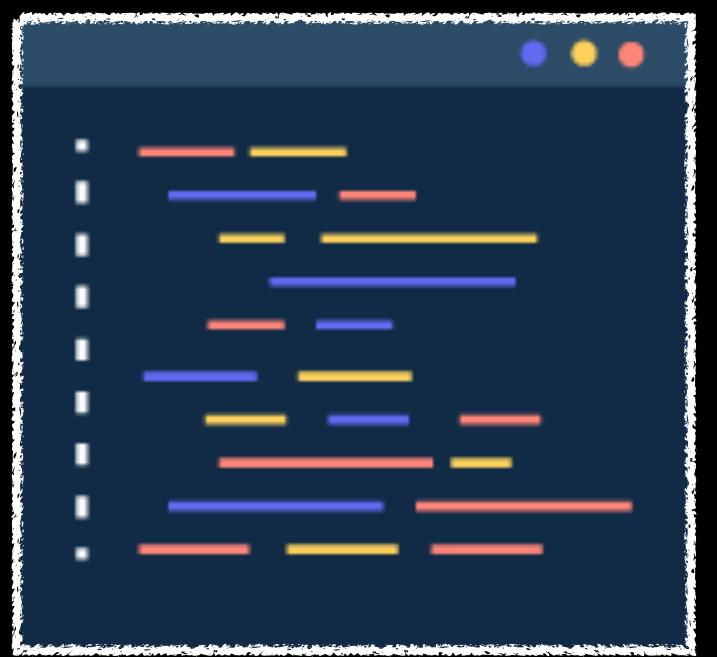
```
src > JS panda.js > [Θ] getData
1  const API_URL = 'https://animal-api-two.vercel.app/';
2
3  const $content = document.querySelector('div.content');
4  let template = [];
5
6  //API
7  const getData = async (name) => {
8      let res = await fetch(` ${API_URL} ${name}`);
9      try {
10          if (res) {
11              let data = await res.json();
12              data.photos.forEach((elm) => {
13                  template += `</img>`;
14              });
15              $content.innerHTML = template;
16          }
17      } catch (err) {
18          console.log(err);
19      }
20  };
21
22  getData('panda');
23
```

JS penguin.js X

```
src > JS penguin.js > ...
1  const API_URL = 'https://animal-api-two.vercel.app/';
2
3  const $content = document.querySelector('div.content');
4  let template = [];
5
6  //API
7  const getData = async (name) => {
8      let res = await fetch(` ${API_URL} ${name}`);
9      try {
10          if (res) {
11              let data = await res.json();
12              data.photos.forEach((elm) => {
13                  template += `</img>`;
14              });
15              $content.innerHTML = template;
16          }
17      } catch (err) {
18          console.log(err);
19      }
20  };
21
22  getData('penguin');
23
```

컴포넌트와 모듈

버튼 클릭



TabBar.js

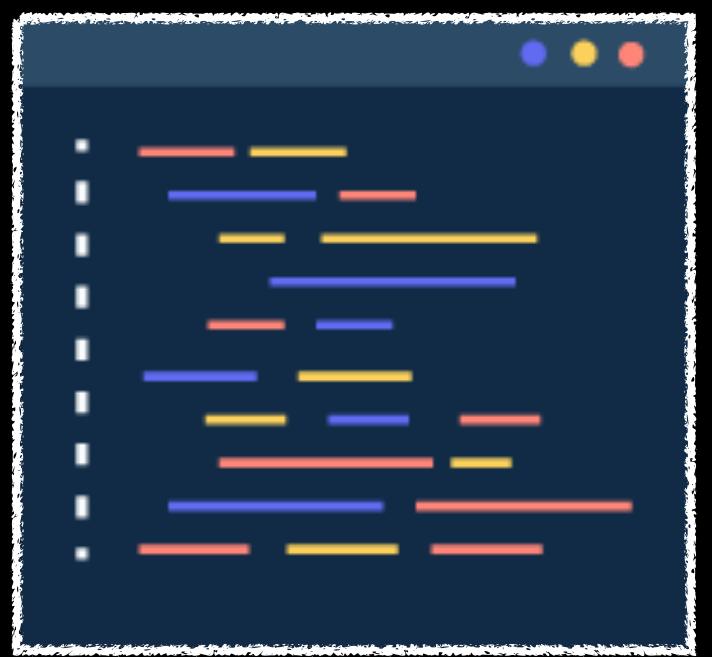
사진 표시



Content.js

컴포넌트와 모듈

버튼 클릭



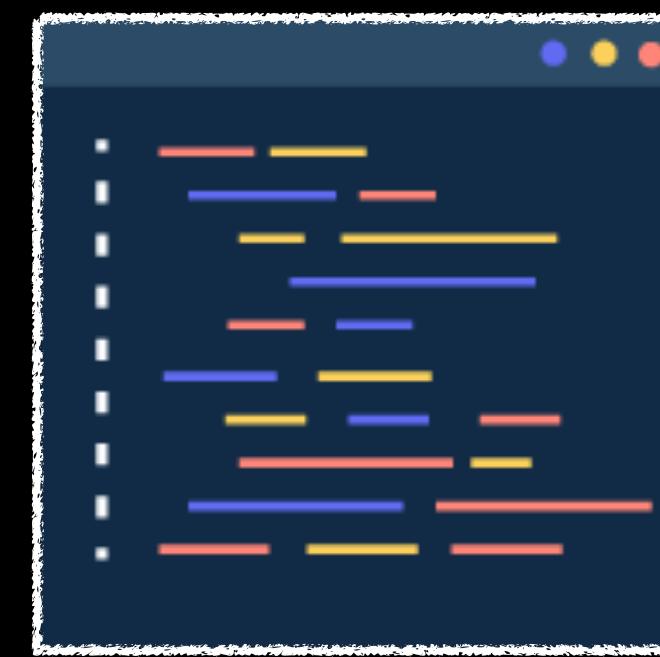
TabBar.js

사진 표시



Content.js

api 호출

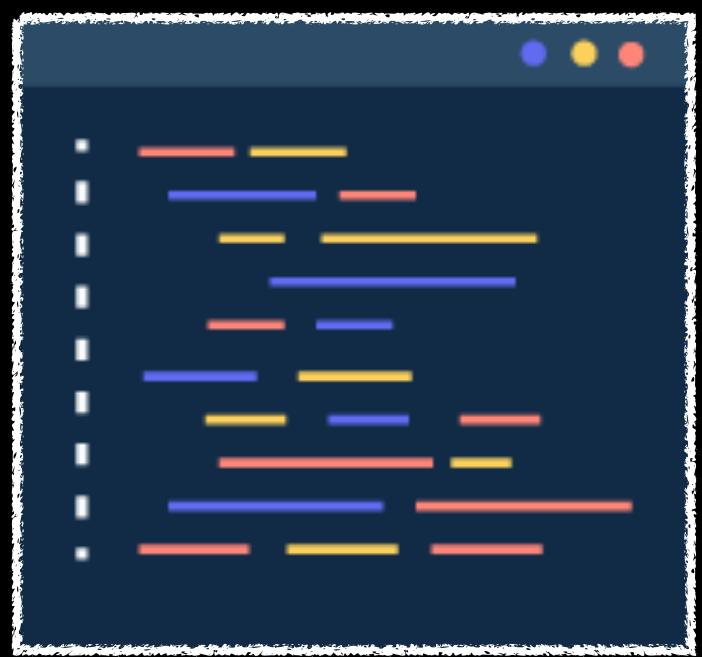


api.js

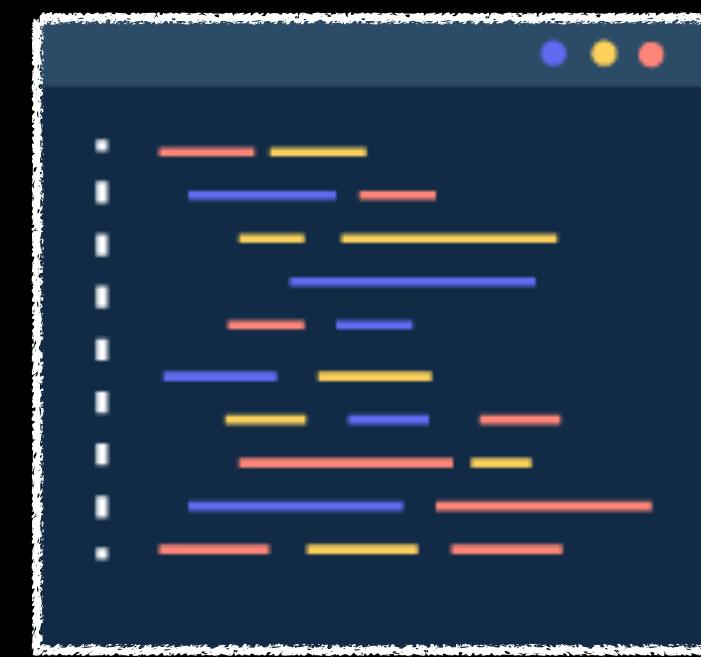
컴포넌트와 모듈

컴포넌트

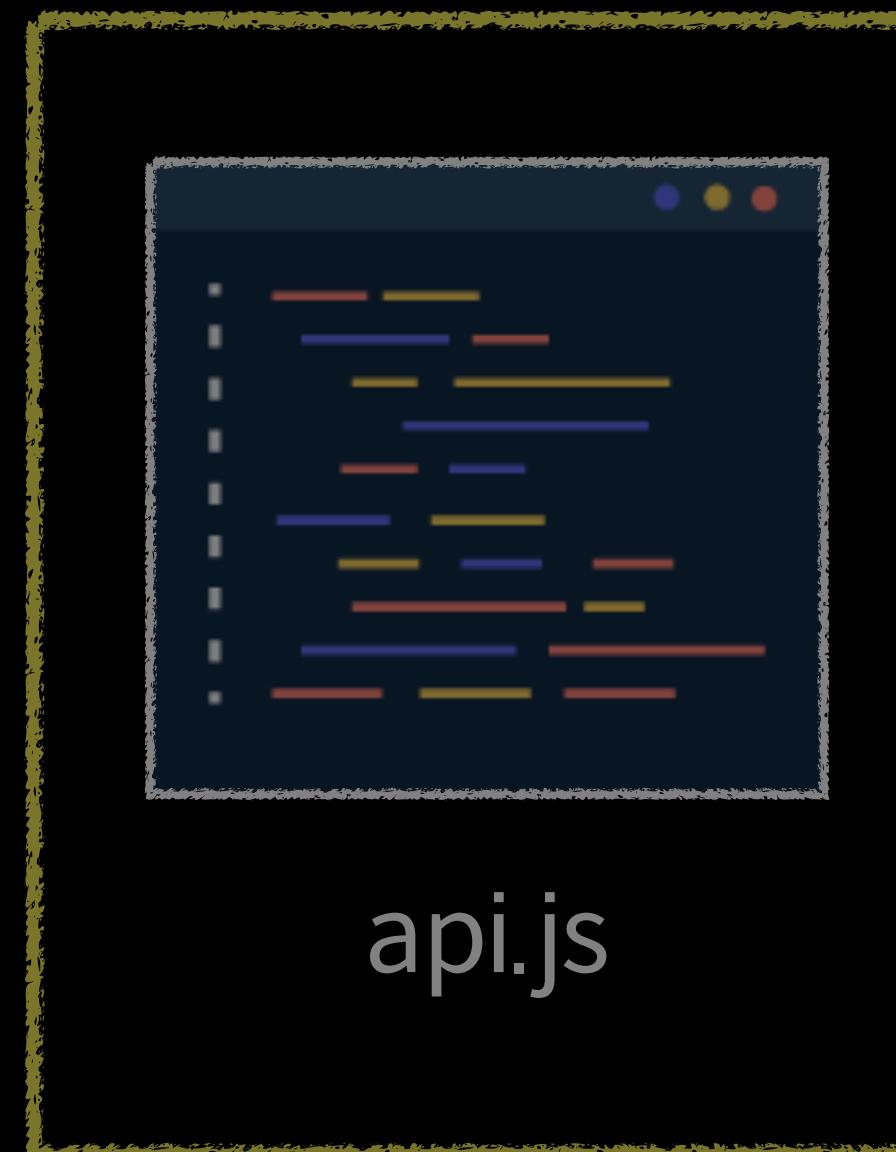
사용자 인터페이스를 구성하는 독립적이고 재사용 가능한 부분



TabBar.js



Content.js



api.js

컴포넌트와 모듈

모듈

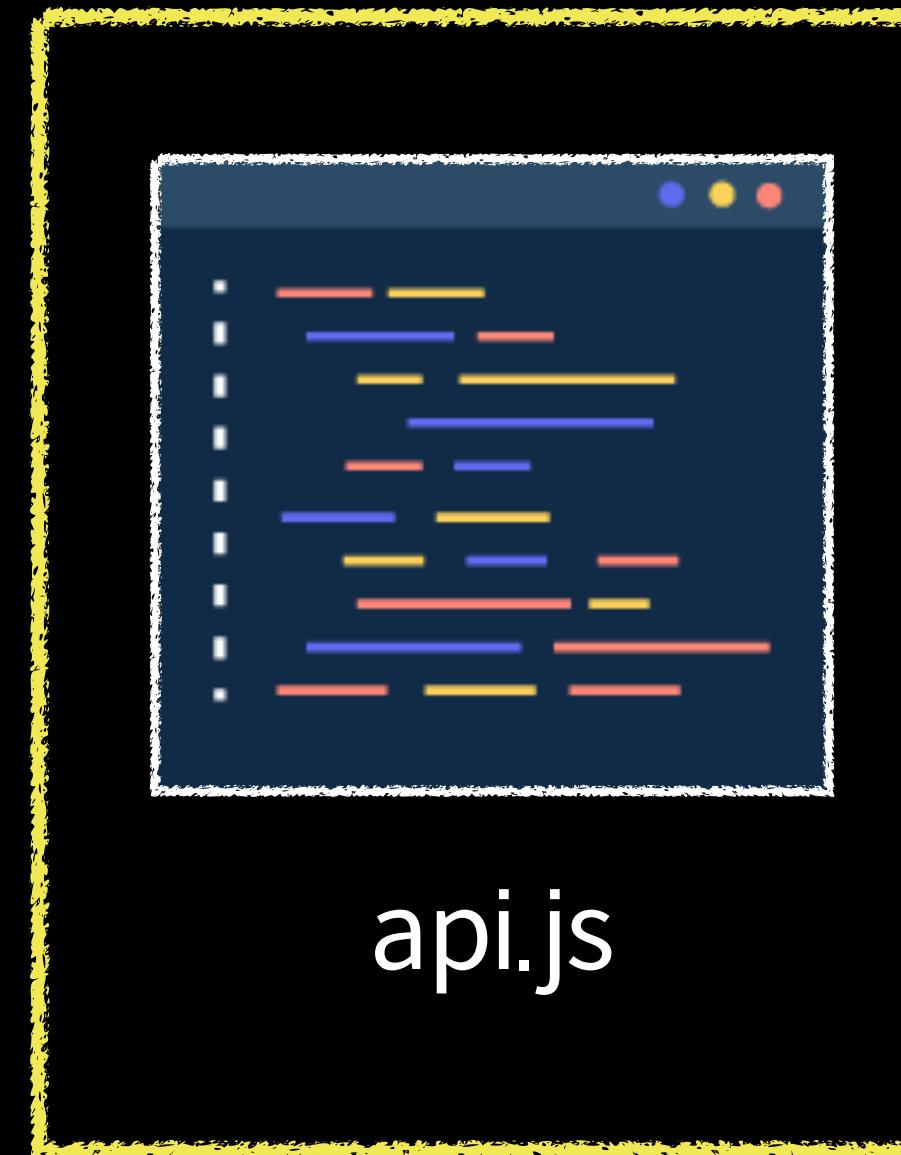
재사용 가능한 코드의 집합으로, 특정 기능을 수행하는 코드를 하나의 단위로 묶어 관리



TabBar.js



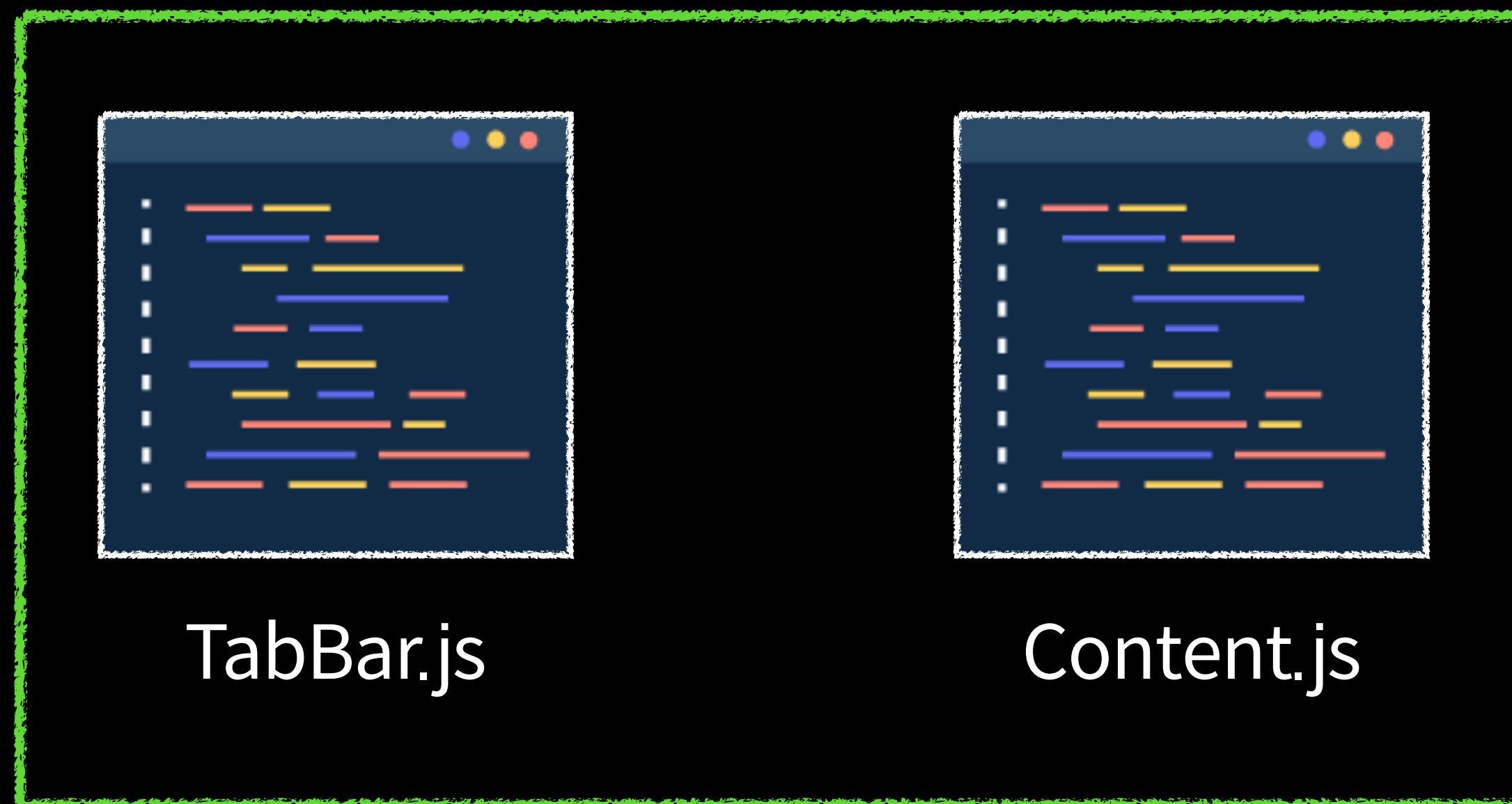
Content.js



api.js

컴포넌트와 모듈

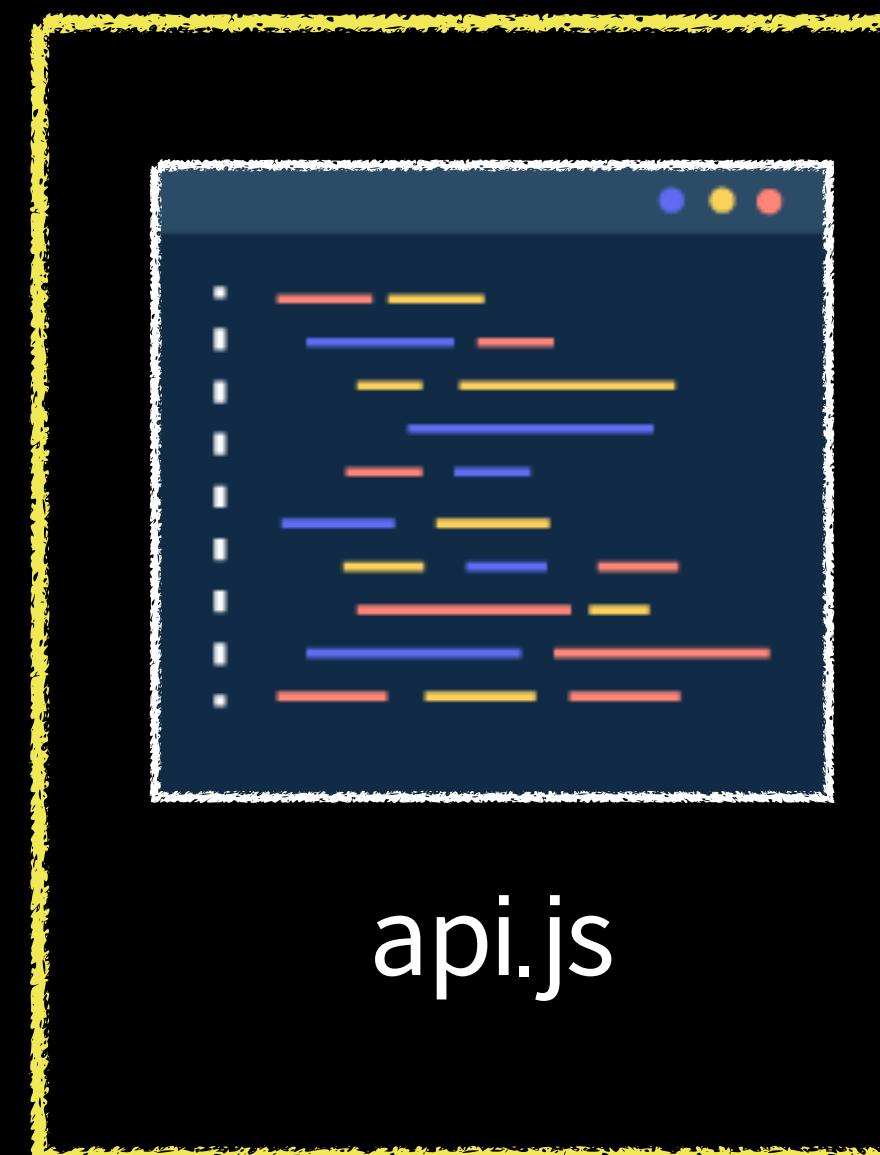
컴포넌트



TabBar.js

Content.js

모듈



api.js