

Zip download challenge

We would like you to build a simple Single Page Application (SPA) which helps users to choose a file and download it to their own machine.

Expected delivery

- A public version control repository link (e.g. in Github)

Requirements

- Please using following stack for development:
 - Node.js: v14.15.1
 - TypeScript: v4.0.5
 - React: v16.14.0
 - styled-components: v5.2.1
- In SPA, there's a view to list all available options for downloading. To make it simple, you show 3 file IDs: **1, 2, 3**.
- The download process should be done within a single network request.
- With the given file IDs, you need to implement the logic to resolve the **secretID** as explain below:
 - **fileID** will be passed through a function named **veryComplexBusinessLogic** like this:

```
const veryComplexBusinessLogic = (fileID) => fileID * 2
```

- The output of **veryComplexBusinessLogic** will be used to retrieve the **secretID** by using the mapping object below:

```
const secretIDMapping = {  
  2: "one",  
  4: "22",  
  6: "33threee"  
}
```

- Use **secretID** to retrieve the zip file from **zip-microservice** by the following HTTP request:
 1. Method: POST
 2. Endpoint: /
 3. Body payload: JSON

```
{  
  "specialID": "secret-id"  
}
```

- The downloaded zip file and picture(s) inside it should be able to open without any error.
- All your implementation should be included in side this directory.

Nice to have:

- Unit test cases on logic parts.
- Snapshot test cases on React components.
- Deployed application on any public cloud service. e.g. Heroku, Netlify, etc.

Notes:

- You should treat the microservice `zip-microservice` as an open-source one but can NOT change its implementation.
- To run `zip-microservice`, please go to directory `zip-microservice`, install dependencies and use `start` script.
- If you think a back-end microservice is needed, make a simple one utilizing Express
- For the sake of this challenge please treat everything seriously. e.g. making decisions you would make in a real world scenario to resolve the **secretID**

Contact

In case you have any questions, please let me know by this email: anh@collectivecrunch.com