

CS361: Assignment 10: Portfolio

1. Code Smells & Refactoring

I corrected most of the code that was too long, but some of the long ones were template strings, those were shortened to make them less readable, and some were not as short as possible.

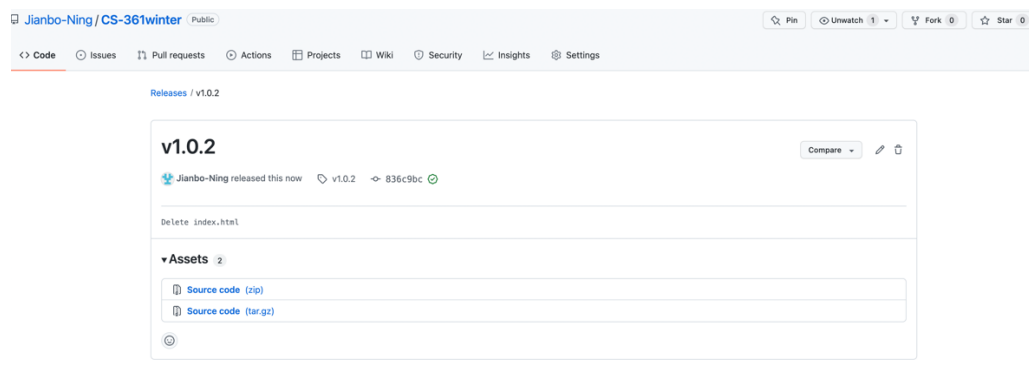
```
// get the data from Bing search
const queryString = `https://www.bing.com/images/search?q=${encodeURIComponent(query.search)}&qsn=6&form=QBIR&sp=-1&pq=${encodeURIComponent(query.search)}&sc=10-2&first=1&ts=ImageBasicHover`;
const browser = await puppeteer.launch({});
const page = await browser.newPage();
await page.setExtraHTTPHeaders({
  'user-agent': 'Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.131 Safari/537.36',
});
```

2. Portfolio

- (a) How to use each feature of your individual project
- (b) The part of your individual project that uses a teammate's service
- (c) How your project reflects the CSH (ok to skip CSH that aren't relevant)

Answer for a,b and c: https://media.oregonstate.edu/media/t/1_qnu1ehws

3. GitHub Release



4. Final Reflection

- (a) For what you created this term (individual project + microservice), do you feel Agile was a good choice, or would Waterfall have been better? Why? (2+sentences)

In my projects, I think Agile is better. Because our project includes individual projects and team services. Especially team service, we need to adapt to changes at any time, because teammates may have different requirements. Secondly, we also need to maintain communication with teammates and provide some corresponding volunteers. So, in this case I think Agile is better than Waterfall.

- (b) Thinking beyond this course, give a specific example of when Agile might work well. Justify your reasoning. (2+ sentences)

An example is when my teammate needs to link to my service, and I need to always support her. When the service was first provided, our service was not well linked. The second time I searched for images it didn't meet the requirements, so I need to always provide support and improve my service.

- (c) Give a specific example of when Waterfall might work well. Justify your reasoning. (2+ sentences)

The waterfall is very useful when I implement the image search function. Because this function is the core function of my product, it must be implemented, and it must have very high stability. I need to be very careful when doing this function and strive to achieve perfection.

(d) How did your team's ground rules affect your team? Consider pros and cons. Explain.

(2+ sentences)

The basic rule of my team is that everyone needs to meet deadlines. The upside is that everyone can complete their tasks on time. For example, service, we can get the service of each teammate on time. Of course, there is also a downside, that is, you can't use your imagination too much, because your time may not be enough. You need to complete the requirements first.

(e) How did discussing cognitive styles—or knowing each other's cognitive styles—affect your team? Consider pros and cons. Explain. (2+ sentences)

We all have very different cognitive styles on our team, some teammates are Abi type, some teammates are Pat type, and myself is Tim type. Knowing people's cognitive styles helps us work better, for example with Abi and Pat-type teammates, I won't make big changes to my service. But I also suppress my thoughts under certain circumstances.

(f) Consider this scenario: A software startup decides to use the microservices architecture and, as the company and its software grow, they continue using microservices. How might this architectural choice affect how the company's teams are organized (e.g., who's on the team, what each team does)? How might teams be different if the monolith architecture was chosen? (2+ sentences)

With a microservices architecture, each team member will continue to do their job. And they can scale well when they want to scale a monolithic service. But continuing to use microservices can also lead teams into pessimism. If you use a monolithic architecture, you can make the team dynamic, but there are risks. For example, monolithic applications cannot be scaled well, and more members are required to work together, increasing costs.

(g) Why might or might not the microservices architecture be a good choice for YOUR future projects? Explain. (2+ sentences)

I feel like microservices architecture might be the choice for my future projects.

Personally, I really like the microservice architecture. I like to do my work without being interrupted, and I may expand my single application at any time. Microservice architecture allows me to develop better.