9주차 assignment

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1 과제 개요

9주차 assignment 과제의 경우 Static files가 잘 서비스 되는지 확인하고 node.js를 이용하여 open API를 호출해보는 과제입니다.

2 Static files
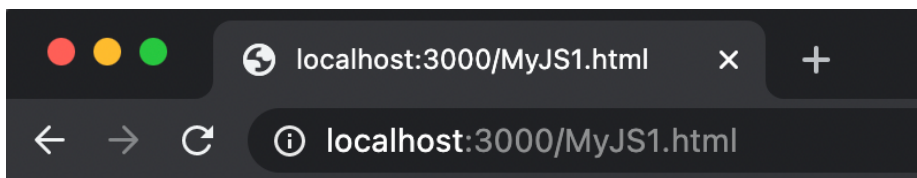
2.1 Ass9_01.js (코드 모두 & 중요 코드 표시)

```
const express = require('express')
const app = express()
const port = 3000

app.use(express.static('public'))

app.get('/', (req, res) => res.send('Hello World!'))

app.get('/Path1', function (req, res) {
        res.send("GET Path1");
    })
app.get('/Path2', function(req,res) {
        res.send("GET Path2 : " + Date());
    })
app.put('/Path1', function (req, res) {
        res.send("PUT Path1");
    })


app.listen(port, () => console.log(`Example app listening at http://localhost:${port}`))
```

2.2 서비스 확인 (주소 포함)

localhost:3000/MyJS1.html

localhost:3000/MyJS1.html

Click the button to display the date.

The time is?

Wed May 05 2021 16:13:16 GMT+0900 (대한민국 표준시)

2.3   질문 : MyJS1.html이 실행 되는 곳은 ? (Node JS 서버 vs Browser) Browser 실행하고 개인의
       Node JS 서버에 접속한다.

3   Open API 호출 1

3.1   MyJS2.html (코드 모두 & 중요 코드 표시)

```html
<!DOCTYPE html>
<html>
<body>

<p>Click the button to display the search data.</p>

<button onclick="displayResponse()">search</button>

<script>
    function displayResponse(){
        var xhr = new XMLHttpRequest();
        xhr.withCredentials = true;

        xhr.addEventListener("readystatechange", function() {
        if(this.readyState === 4) {
            console.log(this.responseText);
        }
        });

        xhr.open("GET", "https://openapi.naver.com/v1/search/webkr.json?query=BIFF");
        xhr.setRequestHeader("X-Naver-Client-Id", "                    ");
        xhr.setRequestHeader("X-Naver-Client-Secret", "                ");

        xhr.send();
    }

</script>

<p id="demo"></p>

</body>
</html>
```
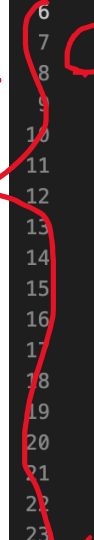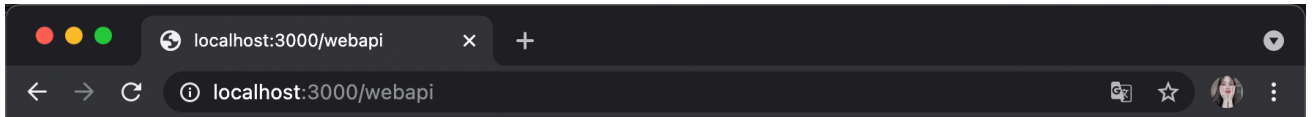
3.2   서비스 확인 ((주소 포함) & f12 console 값 포함)

4 Open API 호출 2

4.1 Ass09_02.js 코드 (코드 모두 & 중요 코드 표시)

```
1    const express = require('express')
2    const app = express()
3    const port = 3000
4
5    app.use(express.static('public'))
6
7    app.get('/webapi', function(req, res){
8        var request = require('request');
9        var options = {
10       'method': 'GET',
11       'url': 'https://openapi.naver.com/v1/search/webkr.json?query=BIFF',
12       'headers': {
13           'X-Naver-Client-Id': '                    ',
14           'X-Naver-Client-Secret': '          '
15       }
16       };
17       request(options, function (error, response) {
18           if (error) throw new Error(error);
19           console.log(response.body);
20           res.send(response.body);
21       });
22   })
23
24   app.get('/Path1', function (req, res) {
25           res.send("GET Path1");
26       })
27   app.get('/Path2', function(req,res) {
28           res.send("GET Path2 : " + Date());
29       })
30   app.put('/Path1', function (req, res) {
31           res.send("PUT Path1");
32       })
33
34
35   app.listen(port, () => console.log(`Example app listening at http://localhost:${port}`))
```
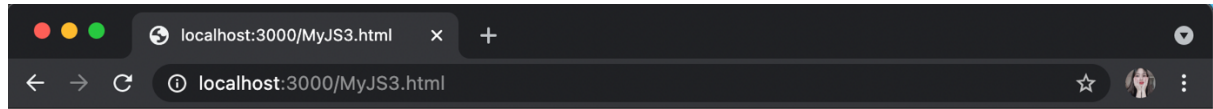
4.2 서비스 확인 (주소 포함)

{ "lastBuildDate": "Wed, 05 May 2021 17:21:04 +0900", "total": 312479, "start": 1, "display": 10, "items": [{ "title": "부산국제영화제", "link": "https://www.biff.kr/", "description": "부산국제영화제 … Notice 2021-04 01 2021년도 2차 계약직 직원 채용 공고문 2021년도 2차 계약직 직원 채용 공고문 2021-03 31 2021년도 일부 사업(ACF/AFA/플랫폼부산/포럼비프) 일시 중단 안내 2021년도 일부 사업(ACF/AFA/플랫폼부산/포럼비프) 일시 중단 " }, { "title": "BIFF 2020", "link": "https://www.biff.no/", "description": "mai inviterer BIFF til visning av den ferske dokumentaren THE GIG IS UP, bare noen dager etter verdenspremieren på CPH:DOX. Se BIFF hjemme Cine Latino Klimafestivalen §112 på BIFF En" }, { "title": "Busan International Film Festival 6-15 October, 2021 - 부산국제영화제", "link": "https://www.biff.kr/eng/", "description": "26 [BIFF Press Release] Busan International Film Festival 'An-yeong' Proj... [BIFF Press Release] Busan International... 12 [BIFF Press Release] BIFF Academy Announces Three Winners of... Community BIFF An Interactive... Floor, BIFF HILL, Busan... " }, { "title": "Boulder International Film Festival", "link": "https://biff1.com/", "description": "Buy Festival Passes Buy Festival Passes FILM Buy Festival Passes FOOD Buy Festival Passes MUSIC 17th Annual Boulder International Film Festival June 24 - June 27, 2021 The Boulder International Film F" }, { "title": "BIFF 2020 | Buffalo International Film Festival", "link": "https://www.buffalofilm.org/", "description": "Buffalo International Film Festival (est. 2006) champions regional, national, and international films that push the limits of independent cinema - presenting quality films from around the world to WNY" }, { "title": "Biff | Definition of Biff by Merriam-Webster", "link": "https://www.merriam-webster.com/dictionary/biff", "description": "Biff definition is - whack, blow. How to use biff in a sentence." }, { "title": "'Back to the Future' Writer: Biff Is Donald Trump - Rolling Stone", "link": "https://www.rollingstone.com/politics/politics-news/back-to-the-future-writer-biff-is-donald-trump-190408/", "description": "Writer: Biff Is Donald Trump "That's what we were... character Biff Tannen was based on Donald Trump, according to... confronts Biff in his office and there's a huge portrait of Biff... " }, { "title": "Biff | GTA Wiki | Fandom", "link": "https://gta.fandom.com/wiki/Biff", "description": "The Biff is depicted as a conventional cab truck similar to... The doors have silver "BIFF" badges. The rear section consist... the Biff returns with almost the same design as in GTA IV... " }, { "title": "BIFF 2022 - Our Seventeenth Season - BIFF - Beloit International Film Festival", "link": "https://beloitfilmfest.org/2022-festival/", "description": "You may have even enjoyed this popular film during the BIFF virtual festival just passed.... 10 Days of BIFF | Our 17th Season Film Submissions OPEN for BIFF 2022! Filmmaker Page Submit... " }, { "title": "Biff - definition of biff by The Free Dictionary", "link": "https://www.thefreedictionary.com/biff", "description": "Define biff. biff synonyms, biff pronunciation, biff translation, English dictionary definition of biff. Informal tr.v. biffed , biff·ing , biffs To strike or punch. n. A blow or punch. n. Upper Mi..." }] }

5 Open API 호출 3

5.1 MyJS3.html 코드 (코드 모두 & 중요 코드 표시)

```html
<!DOCTYPE html>
<html>
<body>

<p>Click the button to display the search data.</p>

<button onclick="displayResponse()">search</button>

<script>
    var xhr = new XMLHttpRequest();
    xhr.withCredentials = true;
    xhr.addEventListener("readystatechange", function() {
    if(this.readyState === 4) {
        console.log(this.responseText);
        document.getElementById("demo").innerHTML = this.responseText;
    }
    });
    function displayResponse(){
        xhr.open("GET", "http://localhost:3000/webapi");
        xhr.send();
    }
</script>

<p id="demo"></p>

</body>
</html>
```

5.2 서비스 확인 (주소 포함)

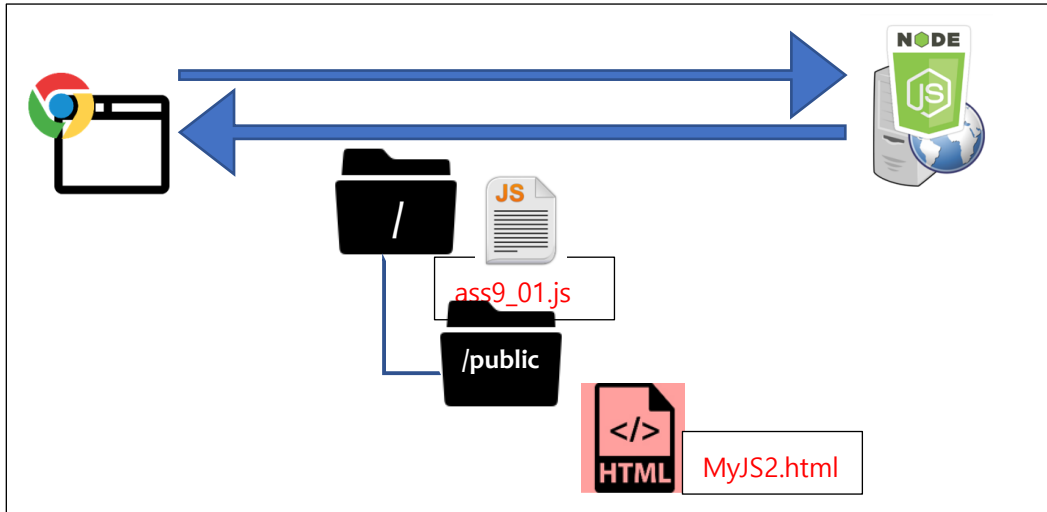{ "lastBuildDate": "Wed, 05 May 2021 18:00:04 +0900", "total": 312580, "start": 1, "display": 10, "items": [{ "title": "부산국제영화제", "link": "https://www.biff.kr/", "description": "부산국제영화제 ... Notice 2021-04 01 2021년도 2차 계약직 직원 채용 공고문 2021년도 2차 계약직 직원 채용 공고문 2021-03 31 2021년도 일부 사업(ACF/AFA/플랫폼부산/포럼비프) 일시 중단 안내 2021년도 일부 사업 (ACF/AFA/플랫폼부산/포럼비프) 일시 중단 " }, { "title": "BIFF 2020", "link": "https://www.biff.no/", "description": "mai inviterer BIFF til visning av den ferske dokumentaren THE GIG IS UP, bare noen dager etter verdenspremieren på CPH:DOX. Se BIFF hjemme Cine Latino Klimafestivalen §112 på BIFF En" }, { "title": "Busan International Film Festival 6-15 October, 2021 - 부산국제영화제", "link": "https://www.biff.kr/eng/", "description": "26 [BIFF Press Release] Busan International Film Festival 'An-yeong' Proj... [BIFF Press Release] Busan International... 12 [BIFF Press Release] BIFF Academy Announces Three Winners of... Community BIFF An Interactive... Floor, BIFF HILL, Busan... " }, { "title": "Boulder International Film Festival", "link": "https://biff1.com/", "description": "Buy Festival Passes Buy Festival Passes FILM Buy Festival Passes FOOD Buy Festival Passes MUSIC 17th Annual Boulder International Film Festival June 24 - June 27, 2021 The Boulder International Film F" }, { "title": "BIFF 2020 | Buffalo International Film Festival", "link": "https://www.buffalofilm.org/", "description": "Buffalo International Film Festival (est. 2006) champions regional, national, and international films that push the limits of independent cinema - presenting quality films from around the world to WNY" }, { "title": "Biff | Definition of Biff by Merriam-Webster", "link": "https://www.merriam-webster.com/dictionary/biff", "description": "Biff definition is - whack, blow. How to use biff in a sentence." }, { "title": "'Back to the Future' Writer: Biff Is Donald Trump - Rolling Stone", "link": "https://www.rollingstone.com/politics/politics-news/back-to-the-future-writer-biff-is-donald-trump-190408/", "description": "Writer: Biff Is Donald Trump "That's what we were... character Biff Tannen was based on Donald Trump, according to... confronts Biff in his office and there's a huge portrait of Biff... " }, { "title": "Biff | GTA Wiki | Fandom", "link": "https://gta.fandom.com/wiki/Biff", "description": "The Biff is depicted as a conventional cab truck similar to... The doors have silver "BIFF" badges. The rear section consist... the Biff returns with almost the same design as in GTA IV... " }, { "title": "BIFF 2022 - Our Seventeenth Season - BIFF - Beloit International Film Festival", "link": "https://beloitfilmfest.org/2022-festival/", "description": "You may have even enjoyed this popular film during the BIFF virtual festival just passed.... 10 Days of BIFF | Our 17th Season Film Submissions OPEN for BIFF 2022! Filmmaker Page Submit... " }, { "title": "Biff - definition of biff by The Free Dictionary", "link": "https://www.thefreedictionary.com/biff", "description": "Define biff. biff synonyms, biff pronunciation, biff translation, English dictionary definition of biff. Informal tr.v. biffed , biff·ing , biffs To strike or punch. n. A blow or punch. n. Upper Mi..." }] }

6 Open API 호출 비교

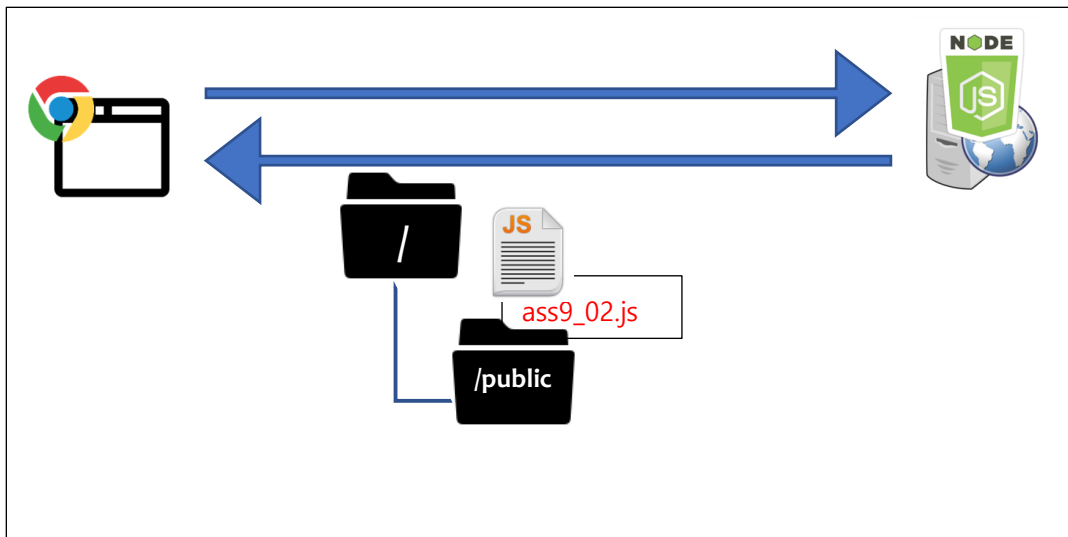아래 표의 아이콘을 사용하여 각 open api 호출의 flow chart를 그리세요.

브라우저	Node JS 서버	Open API 서버	폴더	JS 파일	Html 파일

6.1 Open api 호출 1

6.2   Open api 호출 2

6.3   Open api 호출 3