

Node.js 보충



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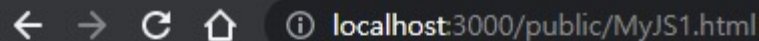


Static 파일 참조 기본 경로 변경

❖ `app.use(경로, express.static('public'))`

```
app.use('/public', express.static('public'))
```

- 브라우저 테스트



← → ↻ 🏠 ⓘ localhost:3000/public/MyJS1.html

Click the button to display the date.

The time is?

파라미터 참조 방법(GET 방식)

❖ req.query.파라미터이름

```
app.get('/webapi', function (req, res) {  
  var word = req.query.word;  
  var request = require('request');  
  var options = {  
    'method': 'GET',  
    'url': 'https://dapi.kakao.com/v2/search/web?query=' + encodeURIComponent(word),  
    'headers': {  
      'Authorization': 'KakaoAK 5b7b955a85e6c617610bfd8df0b2c79a'  
    }  
  };  
  request(options, function (error, response) {  
    if (error) throw new Error(error);  
    console.log(response.body);  
    res.send(response.body);  
  });  
});
```

서버측 코드
(Node.js)

클라이언트측
Ajax 코드

```
function displayResponse() {  
  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;  
    }  
  });  
  xhr.open("GET", "http://localhost:3000/webapi?word=" + encodeURIComponent("부산대"));  
  xhr.send();  
}
```

파라미터 참조 방법(POST 방식) – form-data

❖ req.body.파라미터이름

```
app.use(express.urlencoded({extended : false}));
app.post('/webapi', function (req, res) {
  var word = req.body.word;
  var request = require('request');
  var options = {
    'method': 'GET',
    'url': 'https://dapi.kakao.com/v2/search/web?query=' + encodeURIComponent(word),
    'headers': {
      'Authorization': 'KakaoAK 5b7b955a85e6c617610bfd8df0b2c79a'
    }
  };
  request(options, function (error, response) {
    if (error) throw new Error(error);
    console.log(req.body.word);
    res.send(response.body);
  });
});
```

서버측 코드
(Node.js)

클라이언트측
Ajax 코드

```
function displayResponse2() {
  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;
    }
  });
  xhr.open("POST", "http://localhost:3000/webapi");
  var data = 'word=' + encodeURIComponent('부산대학교');
  xhr.send(data);
}
```

파라미터 참조 방법(POST 방식) - JSON

❖ req.body.파라미터이름

```
app.use(express.json());
app.post('/webapi', function (req, res) {
  var word = req.body.word;
  var request = require('request');
  var options = {
    'method': 'GET',
    'url': 'https://dapi.kakao.com/v2/search/web?query=' + encodeURIComponent(word),
    'headers': {
      'Authorization': 'KakaoAK 5b7b955a85e6c617610bfd8df0b2c79a'
    }
  };
  request(options, function (error, response) {
    if (error) throw new Error(error);
    console.log(req.body.word);
    res.send(response.body);
  });
});
```

서버측 코드
(Node.js)

클라이언트측
Ajax 코드

```
function displayResponse3() {
  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;
    }
  });
  xhr.open("POST", "http://localhost:3000/webapi");
  xhr.setRequestHeader("Content-Type", "application/json");
  var data = {"word": "부산대학교"};
  xhr.send(JSON.stringify(data));
}
```

Postman에서 POST 방식 파라미터 전송 방법

❖ form data 형식



The image shows the Postman interface for a POST request to `http://localhost:3000/webapi`. The **Body** tab is selected, and the **x-www-form-urlencoded** radio button is chosen. A table below shows a single key-value pair: `word` with the value `부산대학교`. The `word` key is checked, and the value is entered in the adjacent field.

| | KEY | VALUE |
|-------------------------------------|------|-------|
| <input checked="" type="checkbox"/> | word | 부산대학교 |
| | Key | Value |

❖ JSON 형식



The image shows the Postman interface for a POST request to `http://localhost:3000/webapi`. The **Body** tab is selected, and the **raw** radio button is chosen. The **JSON** format is selected from the dropdown menu. The body text area contains the JSON string `{ "word": "부산대학교" }`.

```
1 { "word": "부산대학교" }
```