

# CS 104: Web Technology - II Assignment #6

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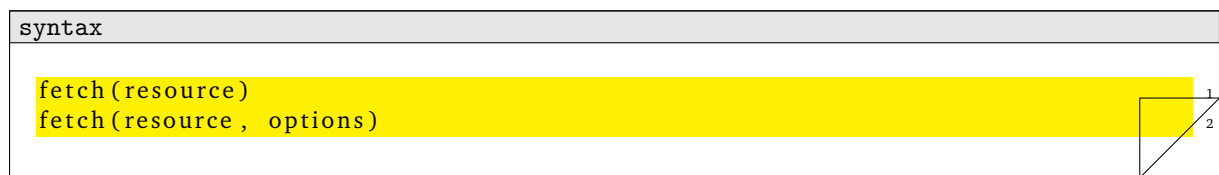
## 1 Javascript Coding with Fetch Api (Using Promise objects)

The global `fetch()` method starts the process of fetching a resource from the network, returning a promise which is fulfilled once the response is available.

The promise resolves to the Response object representing the response to your request.

A `fetch()` promise only rejects when a network error is encountered (which is usually when there's a permissions issue or similar). A `fetch()` promise does not reject on HTTP errors (404, etc.). Instead, a `then()` handler must check the `Response.ok` and/or `Response.status` properties.

### 1.1 Syntax



### 1.2 Return Value

A Promise that resolves to a Response object.

#### 1.2.1 Attributes

1. body
2. bodyUsed
3. headers
4. ok
5. redirected
6. status -> CODE- 100 to 900
7. statusText -> For 200, OK
8. type (cors, basic)
9. url

#### 1.2.2 Static Methods

1. error
2. redirect

### 1.2.3 Object Methods

1. json()
2. text()
3. formData()
4. blob()

## 2 Objectives of Lab

1. To learn to use Promise object using fetch api in javascript.
2. To use the fetch api to build an image gallery.

## 3 Examples

```
image.js
1  const myImage = document.querySelector('img');
2
3  const myRequest = new Request('https://mdn.github.io/dom-examples/fetch/
4  fetch-with-init-then-request/flowers.jpg');
5
6  fetch(myRequest)
7    .then((response) => {
8      if (!response.ok) {
9        throw new Error('HTTP error! Status: ${response.status}');
10     }
11
12     return response.blob();
13   })
14   .then((response) => {
15     myImage.src = URL.createObjectURL(response);
16   });
```

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width" />

    <title>Fetch with init then Request example</title>

    <link rel="stylesheet" href="" />
  </head>

  <body>
    <h1>Fetch with init then Request example</h1>
    <img src="" />
  </body>
  <script>
    const myImage = document.querySelector("img");

    const myHeaders = new Headers();
    myHeaders.append("Content-Type", "image/jpeg");

    const myOptions = {
      method: "GET",
      headers: myHeaders,
      mode: "cors",
      cache: "default",
    };

    const myRequest = new Request("https://mdn.github.io/dom-examples/fetch/
    fetch-with-init-then-request/flowers.jpg");

    fetch(myRequest, myOptions)
      .then((response) => {
        if (!response.ok) {
          throw new Error('HTTP error, status = ${response.status}');
        }
        return response.blob();
      })
      .then((blob) => {
        const objectURL = URL.createObjectURL(blob);
        myImage.src = objectURL;
      })
      .catch((error) => {
        var p = document.createElement("p");
        p.appendChild(document.createTextNode('Error: ${error.message}'));
        document.body.insertBefore(p, myImage);
      });
  </script>
</html>

```

## 4 Exercise

Question 1

Build a gallery with 5x5 grid using datocms.