

Example 1

```
<!DOCTYPE html>
<html>

<head>
  <title>JavaScript API</title>
  <style>
    @import url('https://fonts.googleapis.com/css2?family=Roboto&display=swap');

    * {
      box-sizing: border-box;
    }

    body {
      font-family: 'Roboto', sans-serif;
      font-size: 1.2em;
    }

    .ind {
      padding: 10px;
      width: 50px;
      display: inline-block;
      margin: 10px;
      border: 1px solid black;
      border-radius: 25px;
      text-align: center;
      cursor: pointer;
      color: white;
      background-color: #333;
    }

    .box {
      text-align: center;
      width: 80%;
      padding: 10px;
      border: 1px solid #ddd;
      margin: 10px auto;
    }

    .updater div {
      border: 1px solid #ccc;
      padding: 10px;
```

```

        background-color: azure;
        margin: 10px;
    }

    .updateBtn {
        display: block;
        width: 50%;
        margin: auto;
        text-align: center;
        padding: 10px;
        border-radius: 20px;
        font-size: 1.5em;
    }
</style>
</head>

<body>
    <div class="container">
        <input type="text" class="val">
        <button class="btn">Click</button>
        <div class="output"></div>
    </div>
    <script src="code2.js"></script>
</body>

</html>

```

```

const btn = document.querySelector('.btn');
const inpEle = document.querySelector('input');
const output = document.querySelector('.output');
const baseUrl = 'https://reqres.in/api/';
inpEle.style.display = 'none';
btn.textContent = 'Main Menu';
btn.classList.add('updateBtn');
const app = {
    pg: 1
};
//https://reqres.in/api/users?page=2

```

```

btn.addEventListener('click', loadData);

```

```

window.addEventListener('DOMContentLoaded', loadData);

```

```

function loadData() {
  const para = 'users?page=' + app.pg;
  const url = baseUrl + para;
  fetch(url)
    .then(res => res.json())
    .then(data => {
      buildPage(data);
    })
}

function buildPage(data) {
  //console.log(data);
  output.innerHTML = "";
  data.data.forEach(user => {
    //console.log(user);
    const main = addUser(user);
    main.addEventListener('click', (e) => {
      userPage(user.id);
    })
  });
  const div3 = makeNode(output, 'div', "");
  div3.classList.add('box');
  for (let i = 0; i < data.total_pages; i++) {
    const span = makeNode(div3, 'span', (i + 1));
    span.classList.add('ind');
    span.addEventListener('click', (e) => {
      app.pg = i + 1;
      loadData();
    })
  }
}

function makeNode(parent, nodeType, content) {
  const el = document.createElement(nodeType);
  el.innerHTML = content;
  return parent.appendChild(el);
}

function addUser(user) {
  const output1 = makeNode(output, 'div', "");
  output1.classList.add('box');
  const html1 = `${user.first_name} ${user.last_name}`;
  const div1 = makeNode(output1, 'div', html1);
  div1.userID = user.id;
}

```

```

const html2 = `${user.email}`;
const div2 = makeNode(output1, 'div', html2);
//const html3 = `${user.id}`;
//const div3 = makeNode(output1, 'div', html3);
const img1 = makeNode(output1, 'img', "");
img1.setAttribute('src', user.avatar);
//console.log(img1);
return output1;
}

```

```

function userPage(id) {
  //console.log(id);
  const para = 'users/' + id;
  const url = baseUrl + para;
  fetch(url)
    .then(res => res.json())
    .then(data => {
      createPage(data.data);
    })
}

```

```

function createPage(data) {
  //console.log(data);
  output.innerHTML = "";
  const main = addUser(data);
  main.classList.add('updater');
  main.setAttribute('contenteditable', true);
  const updateBtn = makeNode(main, 'button', 'update');
  updateBtn.classList.add('updateBtn');
  updateBtn.addEventListener('click', (e) => {
    const divEles = main.querySelectorAll('div');
    const userInfo = {
      "name": divEles[0].textContent,
      "id": divEles[0].userID,
      "email": divEles[1].textContent
    }
    updateUser(userInfo);
  })
}

```

```

function updateUser(userInfo) {
  console.log(userInfo);
}

```

```

const para = 'users/' + userInfo.id;
const url = baseUrl + para;
console.log(url);
const headers = {
  "Content-Type": "application/json"
};
const info = {
  "name": userInfo.name,
  "email": userInfo.email
}

fetch(url, {
  method: "PUT",
  headers: headers,
  body: JSON.stringify(info)
})
.then(res => res.json())
.then(data => {
  console.log(data);
})
}

```

chrome://flags/#cookies-without-same-site-must-be-secure

Cookies without SameSite must be secure

If enabled, cookies without SameSite restrictions must also be Secure. If a cookie without SameSite restrictions is set without the Secure attribute, it will be rejected. This flag only has an effect if "SameSite by default cookies" is also enabled. – Mac, Windows, Linux, Chrome OS, Android

#cookies-without-same-site-must-be-secure

Example 2

```
<!DOCTYPE html>
```

```

<html>
<head>
  <title>JavaScript API</title>
  <style>
    .box{
      display: block;
      width:80%;
      margin:10px auto;
      font-size: 1.2em;
    }
    .main{
      display: block;
      width:80%;
      margin:10px auto;
      font-size: 0.8em;
      border: 1px solid #ddd;
      padding:10px;
    }
  </style>
</head>
<body>
  <div class="container">
    <input type="text" class="val">
    <button class="btn">Click</button>
    <div class="output"></div>
  </div>
  <script src="code3.js"></script>
</body>
</html>

const btn = document.querySelector('.btn');
const inpEle = document.querySelector('input');
const output = document.querySelector('.output');
const output1 = document.createElement('div');
output1.classList.add('main');
const baseUrl =
'https://script.google.com/macros/s/AKfycbzUcUVn99AkTK1rxxjCd-oU_707N3s23p9OriMaMzC
Yunuacydj/exec';
inpEle.classList.add('box');
inpEle.setAttribute('name','nameOG');
inpEle.value = 'Hello World';
output.append(inpEle);
for(let i=0;i<10;i++){
  const myInput = document.createElement('input');
  myInput.setAttribute('type','text');

```

```

    myInput.setAttribute('placeholder', 'Value '+i);
    myInput.classList.add('box');
    myInput.setAttribute('name', 'name'+(i+1));
    myInput.value = 'Value '+i;
    output.append(myInput);
}
output.append(btn);
output.append(output1);
btn.classList.add('box');

```

```

btn.addEventListener('click', loadData);

```

```

function loadData() {
    console.log('ready');
    let url = baseUrl + '?';
    const eles = output.querySelectorAll('input');
    let tempArr = [];
    eles.forEach((el)=>{
        console.log(el.name);
        let temp = `${el.name}=${el.value}`;
        tempArr.push(temp);
    })
    let reqUrl = tempArr.join('&');
    url += reqUrl;
    console.log(url);
    getData(url);
}

```

```

function getData(url){
    fetch(url)
        .then(res => res.json())
        .then(data => {
            outputObj(data);
        })
}

```

```

function outputObj(obj){
    output1.innerHTML = "";
    for(const prop in obj){
        output1.innerHTML += `${prop} : ${obj[prop]}<br>`;
    }
}

```

```
}  
}
```

Example 3

```
<!DOCTYPE html>  
<html>  
<head>  
  <title>JavaScript API</title>  
  <style>  
    .box{  
      display: block;  
      width:80%;  
      margin:10px auto;  
      font-size: 1.2em;  
    }  
    .main{  
      display: block;  
      width:80%;  
      margin:10px auto;  
      font-size: 0.8em;  
      border: 1px solid #ddd;  
      padding:10px;  
    }  
  </style>  
</head>  
<body>  
  <div class="container">  
    <input type="text" class="val">  
    <button class="btn">Click</button>  
    <div class="output"></div>  
  </div>  
  <script src="code4.js"></script>  
</body>  
</html>  
  
const btn = document.querySelector('.btn');  
const inpEle = document.querySelector('input');  
const output = document.querySelector('.output');  
const myForm = document.createElement('form');  
document.body.append(myForm);  
const output1 = document.createElement('div');
```



```

output1.classList.add('main');
const baseUrl =
'https://script.google.com/macros/s/AKfycbzUcUVn99AkTK1rxjCd-oU_707N3s23p9OriMaMzC
Yunuacydj/exec';
inpEle.classList.add('box');
inpEle.setAttribute('name', 'nameOG');
inpEle.value = 'Hello World';
myForm.append(inpEle);
for (let i = 0; i < 10; i++) {
  const myInput = document.createElement('input');
  myInput.setAttribute('type', 'text');
  myInput.setAttribute('placeholder', 'Value ' + i);
  myInput.classList.add('box');
  myInput.setAttribute('name', 'name' + (i + 1));
  myInput.value = 'Value ' + i;
  myForm.append(myInput);
}
myForm.append(btn);
output.append(output1);
btn.classList.add('box');
btn.addEventListener('click', getPost);

```

```

function loadData(e) {
  e.preventDefault();
  console.log('ready');
  let formData = new FormData(myForm);
  let data = [...formData.entries()];
  console.log(data);
  const para = data.map(x =>
`${encodeURIComponent(x[0])}=${encodeURIComponent(x[1])}`);
  const res = para.join('&');
  console.log(res);
  let url = baseUrl + '?' + res;
  getData(url);
}

```

```

function getPost(e) {
  e.preventDefault();
  const myHeaders = new Headers();
  let formData = new FormData(myForm);
  let body = {};
  formData.forEach((val, key) => {
    body[key] = val;
  })
}

```

```

    console.log(body);
    const opts = {
      method: 'POST',
      myHeaders,
      body: JSON.stringify(body)
    }
    fetch(baseUrl, opts)
      .then(res => res.json())
      .then(data => {
        outputObj(data);
      })
  }

function getData(url) {
  fetch(url)
    .then(res => res.json())
    .then(data => {
      outputObj(data);
    })
}

function outputObj(obj) {
  console.log(obj);
  output1.innerHTML = "";
  for (const prop in obj) {
    output1.innerHTML += `${prop} : ${obj[prop]}<br>`;
  }
}

```

Example 4

<https://jsonplaceholder.typicode.com/guide/>

<https://my-json-server.typicode.com/>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>JavaScript API</title>
```

```
<style>
```

```
@import url('https://fonts.googleapis.com/css2?family=Oswald&display=swap');
```

```
* {  
  box-sizing: border-box;  
}
```

```
body {  
  font-family: 'Oswald', sans-serif;  
}
```

```
.num {  
  font-size: 1.5em;  
  max-width: 70px;  
}
```

```
.box {  
  border: 1px solid #ddd;  
  border-radius: 25px;  
  padding: 10px;  
  margin: 10px auto;  
  width: 80%;  
}
```

```
.active {  
  background-color: #ddd;  
}
```

```
.del {  
  padding: 5px;  
  display: block;  
  width: 50%;  
  margin: auto;  
  background-color: red;  
  color: white;  
  font-size: 1em;  
  border-radius: 15px;  
}
```

```
.del:hover {
  opacity: 0.7;
}

.sav {
  padding: 5px;
  display: block;
  width: 50%;
  margin: auto;
  background-color: rgb(115, 255, 0);
  color: white;
  font-size: 1em;
  border-radius: 15px;
}

.container1 {
  font-size: 1.2em;
  padding: 10px;
  margin: auto;
  width: 80%;
  text-align: center;
}

.container1 input,
.container1 button,
.btn {
  font-size: 1.2em;
  padding: 10px;
  margin: auto;
}

.sav:hover {
  opacity: 0.7;
}

.active .editme {
  background-color: white;
  border: 1px solid #333;
}
</style>
```

```
</head>
```

```
<body>
```

```
  <div class="container">
```

```
    <input type="text" class="val">
```

```
    <button class="btn">Click</button>
```

```
    <div class="output"></div>
```

```
  </div>
```

```
  <script src="code5.js"></script>
```

```
</body>
```

```
</html>
```

```
const baseUrl = 'https://jsonplaceholder.typicode.com/'
```

```
const btn = document.querySelector('.btn');
```

```
const inpEle = document.querySelector('input');
```

```
const output = document.querySelector('.output');
```

```
const container = document.querySelector('.container');
```

```
const output1 = addEle(container, 'div', "");
```

```
output1.classList.add('container1');
```

```
const btn2 = addEle(output1, 'button', 'add Item');
```

```
const input1 = addEle(output1, 'input', "");
```

```
input1.setAttribute('type', 'text');
```

```
input1.setAttribute('placeholder', 'title');
```

```
const input2 = addEle(output1, 'input', "");
```

```
input2.setAttribute('type', 'text');
```

```
input2.setAttribute('placeholder', 'body');
```

```
inpEle.value = 1;
```

```
inpEle.classList.add('num');
```

```
inpEle.setAttribute('type', 'number');
```

```
btn.textContent = 'Select Post ID';
```

```
const btn1 = addEle(output1, 'button', 'Load All Posts');
```

```
btn1.style.display = 'block';
```

```
btn.addEventListener('click', loadData);
```

```
btn1.addEventListener('click', loadAll);
```

```
btn2.addEventListener('click', addItem);
```

```
function addItem() {
```

```
  const title = input1.value || 'Title';
```

```
  const body = input2.value || 'Body Contents';
```

```
  const json = {
```

```
    title: title,
```

```
    body: body,
```

```
    userId: 1
```

```

    }

    const url = baseURL + 'posts';
    makeReq(json, 'POST', url);
  }

function makeReq(json, meth, url) {

  fetch(url, {
    method: meth,
    body: JSON.stringify(json),
    headers: {
      'Content-type': 'application/json; charset=UTF-8'
    }
  })
  .then(rep => rep.json())
  .then(data => {
    addtoPage(data);
  })
}

```

```

function loadAll(e) {
  console.log('ready');
  const url = baseURL + 'posts';
  fetch(url)
    .then(rep => rep.json())
    .then(data => {
      addItems(data);
    })
}

```

```

function addItems(json) {
  output.innerHTML = "";
  json.forEach(element => {
    addtoPage(element);
  });
}

```

```

function loadData(e) {
  console.log('ready');
  const url = baseURL + 'posts/' + inpEle.value;
  fetch(url)

```

```

        .then(rep => rep.json())
        .then(data => {
            addtoPage(data);
        })
    }

function addtoPage(info) {
    console.log(info);
    const main = addEle(output, 'div', "");
    const delButton = addEle(output, 'button', 'Delete Item #' + info.id);
    delButton.classList.add('del');
    delButton.addEventListener('click', (e) => {
        fetch(baseUrl + 'posts/' + info.id, {
            method: 'DELETE',
        });
        main.remove();
        delButton.remove();
    })
    main.classList.add('box');
    let html = `<h1 class="editme">${info.title}</h1>`;
    html += `<p class="editme">${info.body}</p>`;
    html += `<small>ID: ${info.id} - UserID: ${info.userId}</small>`;
    const item = addEle(main, 'div', html);
    item.addEventListener('click', (e) => {
        console.log(info.id);
        main.classList.add('active');
        const saver = addEle(main, 'button', 'Save to Server');
        saver.classList.add('sav');
        const eles = main.querySelectorAll('.editme');
        eles.forEach((el) => {
            el.setAttribute('contenteditable', true);
        })
        saver.addEventListener('click', (e) => {
            const tempObj = {
                'title': eles[0].textContent,
                'body': eles[1].textContent,
                'id': info.id,
                'userId': info.userId
            }
            eles.forEach((el) => {
                el.setAttribute('contenteditable', false);
            })
            putItem(tempObj);
            main.classList.remove('active');
        })
    })
}

```

```

        saver.remove();
    }, {
        once: true
    });
}, {
    once: true
})
}

function putItem(json) {
    console.log(json.id);
    console.log(json);
    const url = baseUrl + 'posts/' + json.id;
    makeReq(json, 'PUT', url);
}

function addEle(parent, t, html) {
    const ele = document.createElement(t);
    parent.prepend(ele);
    ele.innerHTML = html;
    return ele;
}

```

Example 5

```

const btn = document.querySelector('.btn');
const inpEle = document.querySelector('input');
const output = document.querySelector('.output');
const container = document.querySelector('.container');
inpEle.style.display = 'none';
btn.textContent = 'Load GitHub JSON data';

const baseUrl = 'https://my-json-server.typicode.com/discoveryvip2/testingdatabase/posts/';
btn.addEventListener('click', loadData);

function loadData(e) {
    console.log('ready');
    const url = baseUrl;
    fetch(url)
        .then(rep => rep.json())

```



```

        .then(data => {
            createPage(data);
        })
    }

function createPage(data){
    console.log(data);
    output.innerHTML = "";
    data.forEach(el => {
        const main = addEle(output, 'div', "");
        addEle(main, 'div', el.title);
        addEle(main, 'div', el.body);
        addEle(main, 'div', el.id);
        main.classList.add('box');
    });
}

function addEle(parent, t, html) {
    const ele = document.createElement(t);
    parent.append(ele);
    ele.innerHTML = html;
    return ele;
}

```

```

<!DOCTYPE html>
<html>

<head>
    <title>JavaScript API</title>
    <style>
        .box{
            width:80%;
            border: 1px solid #ddd;
            margin: 10px auto;
            padding:10px;
            font-size: 1.2em;
        }
    </style>
</head>

<body>
    <div class="container">
        <input type="text" class="val">

```

```
<button class="btn">Click</button>
  <div class="output"></div>
</div>
<script src="code6.js"></script>
</body>

</html>
```