

0.4: New note

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The screenshot shows a web browser at the URL `fullstack-exampleapp.herokuapp.com/notes`. The page contains a list of notes and a 'Save' button. A callout bubble points to the 'Save' button with the text: "1- The user write the new note 'fullstack open' for send to server, press button Save".

Below the browser window, the Chrome DevTools Network tab is open. A callout bubble points to the 'new_note' entry in the network log with the text: "2- Load all files in new_note.html".

Name	Status	Type	Initiator	Size	Time	Waterfall
new_note	302	text/html	Other	230 B	465 ms	
notes	200	document	new_note	644 B	207 ms	
main.css	200	stylesheet	notes	400 B	113 ms	
main.js	200	script	notes	906 B	224 ms	
data.json	200	xhr	main.js:23	8.6 KB	145 ms	

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The image shows a web browser window at `fullstack-exampleapp.herokuapp.com/notes` and its developer tools. The browser window displays a list of notes: `testing1`, `Rahapeliautomaatit poistettava kaupoista, kioskeilta, ravintoloista ja huoltoasemilta`, `Banana`, and `fullstack open`. A 'Save' button is visible below the list. A callout bubble points to the browser address bar with the text: "1- url notes.html render on browser".

The developer tools are open to the Network tab, showing a list of requests. The request `new_note` is selected, and its details are shown in the right pane. A callout bubble points to the `new_note` request in the list with the text: "2- Request http post on server address new_note".

The details pane shows the following information:

- Request URL:** `https://fullstack-exampleapp.herokuapp.com/new_note`
- Request Method:** `POST`
- Status Code:** `302 Found`
- Remote Address:** `54.165.34.193:443`
- Referrer Policy:** `no-referrer-when-downgrade`

Callout bubbles point to these details:

- "3- the files are not shown in the url" points to the `new_note` request in the list.
- "4- the server responds with the status code, 302. This is a url redirect, which generates five requests to the server: `notes.html`, `main.css`, `main.js`, `data.json`, and `new_note`" points to the `Status Code: 302 Found` line.
- "5- Files on directory on server: `notes`" points to the list of files (`notes`, `main.css`, `main.js`, `data.json`) shown in the details pane.
- "6- Byte: 56" points to the `Content-Length: 56` header.
- "7- type: html" points to the `Content-Type: text/html; charset=utf-8` header.
- "Directory on server" points to the `Location: /notes` header.

The bottom of the developer tools shows a summary: "5 requests | 10.8 KB transferred | 9".

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fullstack-exampleapp.herokuapp.com/notes

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- testing1
- Rahapeliautomaatit poistettava kaupoista, kioskeilta, ravintoloista ja huoltoasemilta
- Banana
- fullstack open

Events run on server URL Redirect. Code 302

0- New note: send to server via post

1- Notes.html: runs on the server

2- main.css render page html: runs on the server

3- main.js: Create notes: runs on the server

4- raw date json: runs on the server

notes X

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <link rel="stylesheet" type="text/css" href="/main.css" />
5   <script type="text/javascript" src="main.js"></script>
6 </head>
7 <body>
8   <div class='container'>
9     <h1>Notes</h1>
10    <div id='notes'>
11    </div>
12    <form action='/new_note' method='POST'>
13      <input type="text" name="note"><br>
14      <input type="submit" value="Save">
15    </form>
16  </div>
17 </body>
18 </html>
19
20
```

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The screenshot shows a web browser at `fullstack-exampleapp.herokuapp.com/notes` with a list of notes: `testing1`, `Rahapeliautomaatit poistettava kaupoista, kioskeilta, ravintoloista ja huoltoasemilta`, `Banana`, and `fullstack open`. Below the list is a text input field and a `Save` button.

The browser's developer tools are open to the `Network` tab, showing a request to `/data.json`. The `Response` tab is selected, displaying the following JavaScript code:

```
1 var xhttp = new XMLHttpRequest()
2
3 xhttp.onreadystatechange = function () {
4   if (this.readyState == 4 && this.status == 200) {
5     const data = JSON.parse(this.responseText)
6     console.log(data)
7
8     var ul = document.createElement('ul')
9     ul.setAttribute('class', 'notes')
10
11     data.forEach(function(note){
12       var li = document.createElement('li')
13
14       ul.appendChild(li);
15       li.appendChild(document.createTextNode(note.content))
16     })
17
18     document.getElementById("notes").appendChild(ul)
19   }
20 }
21
22 xhttp.open("GET", "/data.json", true)
23 xhttp.send()
```

Five callouts explain the code steps:

- 1- a new instance of the object is created that controls the communications between the server and the browser
- 2- create an event handler to detect if the data is on the server
- 3- create the ul tags
- 4- create the li tags with the contents of the json
- 5- note send to server