**CODE**

**note over browser:**

**User inputs the data in the text**

**field (form-element) and then press**

**the Save button(form-element) in the spa page.**

**end note**

**browser->server: HTTP POST https://studies.cs.helsinki.fi/exampleapp/new\_note\_spa**

**note right of server:**

**The POST request to the address new\_note\_spa**

**contains the new note as JSON-data**

**containing both the content of the**

**note (content) and the timestamp (date):**

**{"content":"now",**

**"date":"2021-05-26T16:30:56.441Z"**

**}**

**end note**

**server-->browser: HTTP status code 201 created**

**note left of browser:**

**The browser stays on the same page,**

**and it sends no further HTTP requests.**

**end note**

**note right of server:**

**The server does not ask for a redirect**

**end note**

**note left of server:**

**The command document.getElementById('notes\_form')**

**instructs the code to fetch the form-element**

**from the page, and to register an event handler**

**to handle the form submit event. The event**

**handler immediately calls the method**

**e.preventDefault() to prevent the default**

**handling of form submit**

**end note**

**note right of browser:**

**Then the event handler creates a new note,**

**adds it to the notes list with the command**

**notes.push(note), rerenders the note list**

**on the page and sends the new note to the server**

**end note**