Exercise 0.3

A sequence diagram with three participants: User, Browser, Server.

- User → Browser
- Note: User clicks on the "notes" link
- Browser → Server: GET https://fullstack-exampleapp.herokuapp.com/notes
- Note (Server): Generate the HTML code of the notes page
- Server → Browser: status 200, HTML code of the notes page
- Browser → Server: GET /main.css
- Server → Browser: status 200, styling of the notes page
- Browser → Server: GET /main.js
- Server → Browser: status 200, script to load notes
- Browser → Server: GET /data.json
- Server → Browser: status 200, notes in a .json file
- Note (Browser): Browser shows the HTML page returned by the server in the style set by CSS file and including the notes in the .json file that was requested by the script in the HTML
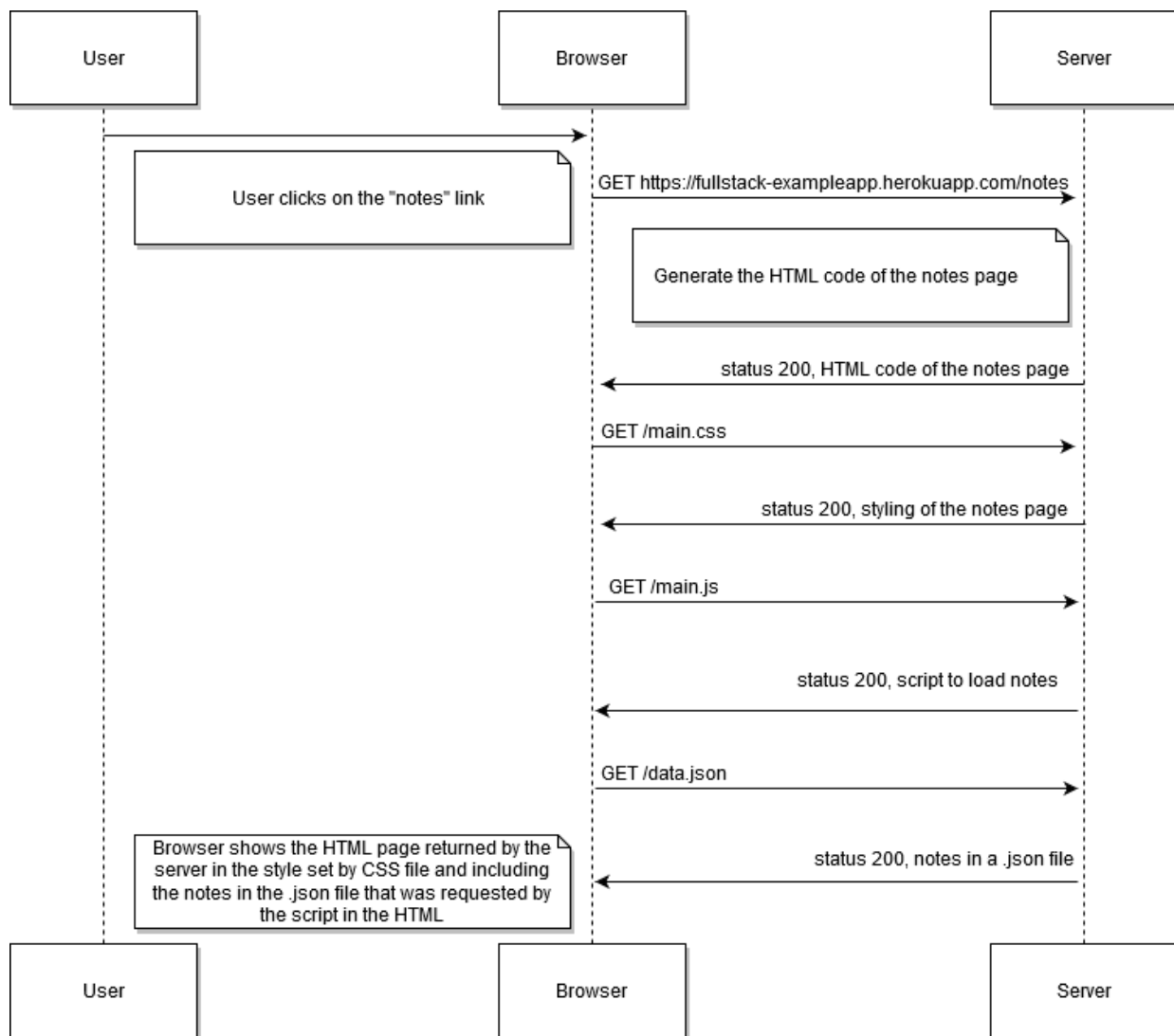
Exercise 0.4

When the user clicks on the "Save" button, which makes a POST request to the server, which sends the form to the address "new_note". The server replies to this with status code 302, which implies URL redirection. This means that the server asks the browser to make a new GET request to a location specified by the Location header. In this case it redirects to notes page, which starts the same sequence as described in exercise 0.3.

Exercise 0.5

In the single page app version of the notes application, the POST request is replied to by the server with status code 201, which implies that the request has been fulfilled and has resulted in one or more new resources being created. After this, the notes are *redrawn* to the page by the JavaScript file, including the new note, and the new note is also sent to the server to be included in the next *reload* of the page.