Notepad task report

The task was to create notepad using JavaScript. I divided whole project for 4 subtasks:

1. HTML layout
2. CSS styles
3. JavaScript event handlers
4. Node Js server activities

HTML and CSS were easy. The only thing was to decide between using a form with text area or maybe use Iframe as it was easier to make 'text area' behave like MS word type of app. So I sticked to second one. The only downside of it was that eventually the notepad behaved more like vs code notepad where there is no format like a4 etc. and text have the tendency to go infinitely to the right rather than create new line once it gets to the border of a frame. Still, as it wasn't specified in the task I think like it was good decision.

If it goes about JavaScript my first convention was to manipulate innerHTML of body node using common string practises, but I found two js futures:

```
document.designMode = "on" ;
document.execCommand("")
```

It was much more convenient to use them rather than manipulate iframes innerHTML. The rest of a code was pretty straight forward – eventListiners with click attribute.

Later I decided to use fetch() to download and post json file. My algorithm was to get file from root library. It was problematic because of CORS blocking access from non http source. My fix was to create node.js server with express lib, deploy website from that server and use that future:

```
app.use(express.static('./'))
```

After that I was able to download json content to web page.

Last thing was to send json file into root library and overwrite it. For that I used fetch() method again to post request to server. The body of request was stringified json of iframes body content. To be able to read request body I used:

```
app.use(bodyParser.urlencoded({
    extended: true
}));
app.use(bodyParser.json());
```

and than

```
const fs = require("fs");
```

to be able to save json in note.json file.