Homework #2

Points: 10

Deadlines:
Groups 1, 2, 3, 4 and **5**: **3 November** 2024, 23:59
Groups 6 and **7**: **5 November** 2024, 23:59

The main aim of this homework is to assess your capabilities in using **JavaScript** to add some logic to **HTML** documents and make them **dynamic**.
Note: you cannot use Bootstrap in the homework.

In your previous homework, you created a page that contains various posts (Figure 1).

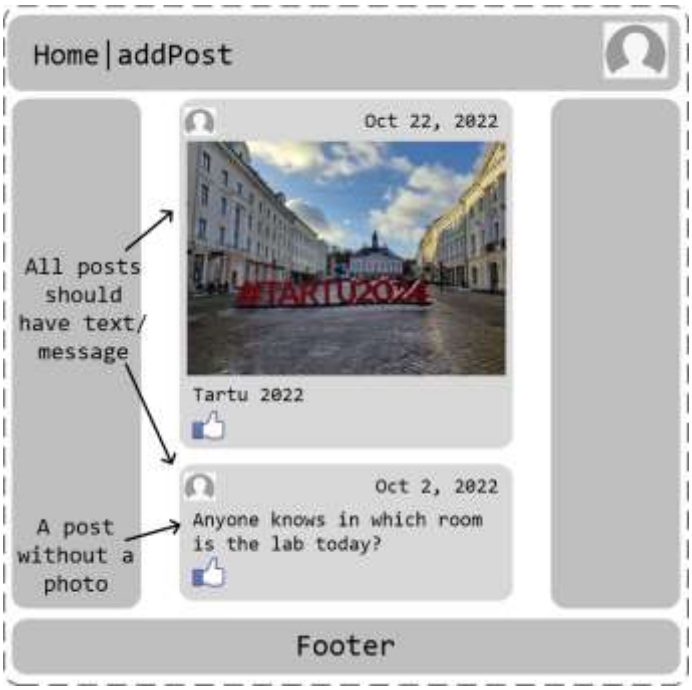

Figure 1. index.html

In this homework, you'll try to make this page more dynamic. Instead of "**hard coding**" these posts into the webpage, you will **dynamically** create them.

Tasks

1. Create a JSON file that contains at least 10 objects that describe different posts. Pay special attention to the literals (create time, author name, etc.) that you'll include in your objects. **(1 point)**
   Hint: read **point 6,** otherwise, you may need to modify your JSON file when you reach it.
2. Try to find an online free website for validating the correctness of the JSON file you have just created, and use it to validate the JSON objects. **(1 point)**
3. Try to find an online free website (**endpoint**) that allows you to store your JSON file online (**endpoint**). Many websites can host your JSON file and provide you with a Uniform Resource Identifier (URI), which you can use to retrieve such information relying on Fetch API. **(1 point)**
4. Write a code that can retrieve/fetch the posts information from the **endpoint** (URI) you created at task 3, and use such information to dynamically create the webpage shown in Figure 1. **(2 points)**
5. Integrate the JSON file into your project, and modify the Fetch code to retrieve/fetch the JSON objects information from it. **(1 point). Note:** do not delete the code related to fetching the data from the online source (task 4), just comment it out.
6. You know that you can store only "text" in JSON files, try to find a solution for any photo that your posts include. **(1 point)**
7. Extend the webpage by creating a dropdown menu that shows a user name, email, and logout (Figure 2 and Figure 3). This list opens and then closes by clicking **on** the personal photo. **(1 point)**
8. The overall styling of the page **(1 point)**
9. Do not forget **to push all your changes to your repository.**
   - At least one "commit" from every team member.
10. Deploy your project as a **GitHub page** site (https://docs.github.com/en/pages/getting-started-with-github-pages/creating-a-github-pages-site) **(1 point)**

Figure 2

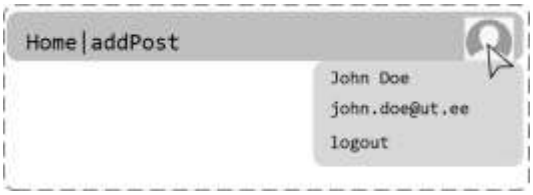

Figure 3

Rules for homework submission and discussion

1. Through Moodle, submit a text file (*.txt) that contains your **Team code**, Name(s), and a **valid and accessible link to the repository** that contains your **homework**. You can make your repo **private** but you need to add your teacher and me as collaborators. Still, you need to submit the link to it through Moodle.
   Note: if the **link** to your **repository** is **not accessible** or **valid** for any reason, you might not be allowed to discuss your homework or at least you will lose **5 points**.
2. You are **not allowed to modify** the content of your repo **after the deadline.**
3. You are **not allowed** to share the link to your repository with anyone **except your lab teacher**. You can do that by sending her/him a **direct message** in **Slack** that contains the **team number**, name(s) and a **valid and accessible link to the repository**.
4. **All team members should attend the discussion** of their homework; you **will not be allowed to discuss** if your team **is not complete**. If you already know that your team will not be complete because one or more of the members cannot attend due to another commitment, **contact me** as soon as possible and we can find a solution.
5. You have to submit your homework by the defined deadline, and **you will lose 0.5 point for each hour of delay.**

The previous rules will be strictly enforced and there will be no exceptions.