

Homework #3

Points: 15

Deadlines:

Groups 1, 2, 3, 4 and 5: 24 November 2024, 23:59

Groups 6 and 7: 26 November 2024, 23:59

The main aim of this homework is to assess your capabilities to develop useful Vue +VueX-based apps. You are required to create your app using Vue +Vuex techniques.

Tasks

1. Your App should have two different “pages”, one of them should be the main “page” that contains at least 10 posts, and the other “page” should be the signup “page”. (0 points but it is mandatory for completing the other tasks).

- 1.1. the main page should have the structure shown in Figure 1.

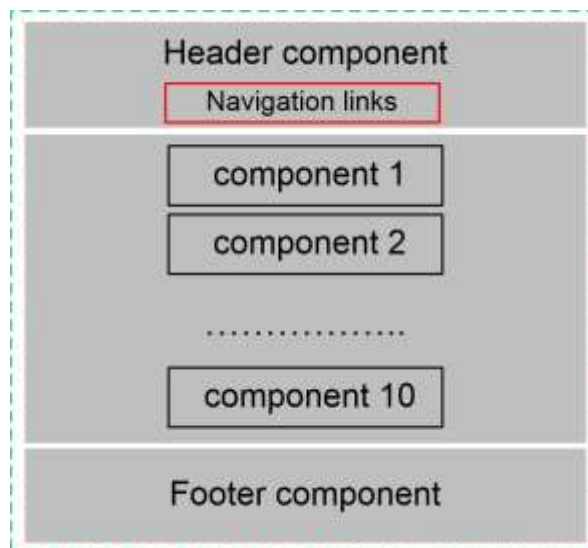


Figure 1 The main page structure

- 1.2. The signup page should have the structure shown in Figure 2.

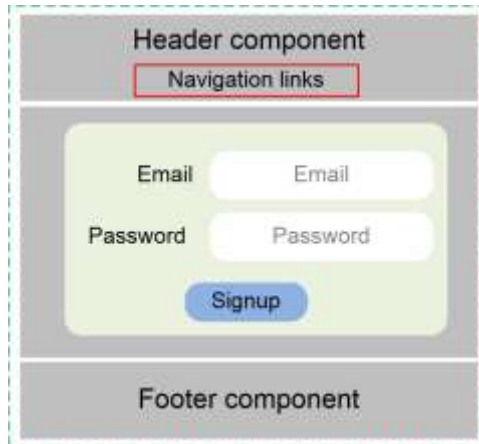


Figure 2 The signup page structure

2. The **header** should be a **component** that appears on both “pages” of your App, and it should include navigation links/routes to both pages **(2 points)**.
3. The **footer** should also be a **component** that appears on both “pages” of your app, and it should include some basic information that traditional footers include (e.g., copyright, etc.) **(1 point)**.
4. Concerning the main page:
 - 4.1. **A post** should have the same structure as the previous homework, but it has to be a **component** that relies on the **Vuex global store** to acquire/fetch its content information **(3 points)**.
 - 4.2. **A post** should have a **“like” button** that is accompanied by the **number of likes**, which increases when we press the button **(2 points)**.
 - 4.3. On the main “page”, you need to add a **button** that resets the **number of likes** in all posts **(2 points)**.

To avoid any confusion, the main page should appear like Figure 3.

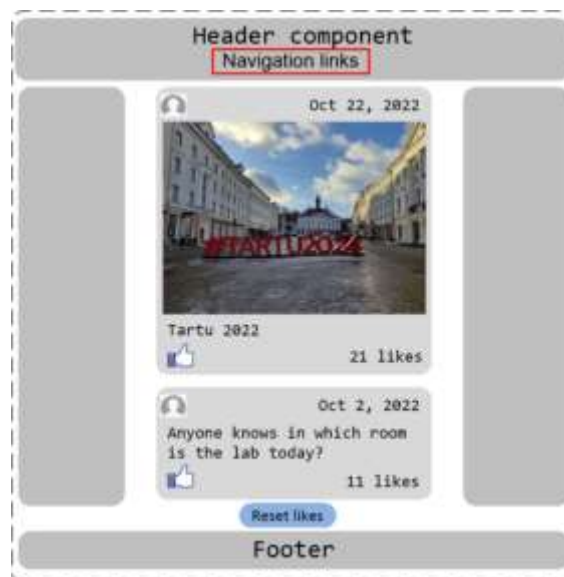


Figure 3 the expected appearance of the main page

5. The **signup** “page” should include a form that contains the elements shown in Figure 2 (1 point).
6. The **signup** “page” should provide a password validation that checks for the **following conditions**:
 - The password should be of a specific length (at least 8 chars and less than 15 chars).
 - Includes at least one uppercase alphabet character.
 - Includes at least two lowercase alphabet characters.
 - Includes at least one numeric value.
 - It should start with an uppercase alphabet.
 - It should include the character “_”

When the password does not satisfy one or more of the previous conditions, a text should appear within the form stating that the **password is not valid, followed by the condition(s) that has not been satisfied**. For example, “the password is not valid - Includes at least one numeric value”. (3 points)
7. The styling of your overall App (1 point).

Note: the term “page” has been used while describing the tasks, yet it might mean a **view** or a **single page component (SPC)**, you should know which one is better to use.

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 and the course lecturer**.
4. You **must send** the link to your repository to your teacher via a **direct message** in Slack, and include the **team number**, and name(s) in the message.
5. **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.
6. 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