



Interface Design and Development

Pass Task 10.1: Creating a Single Page Application Using Vue CLI

Overview

- Purpose:** Learn how to create single page applications using Vue CLI.
- Task:** Use Vue CLI to create a single page application.
- Time:** This task should be completed in your lab class and submitted for feedback before the start of week 12.
- Resources:**
- Lecture notes

Submission Details

You must submit the following files:

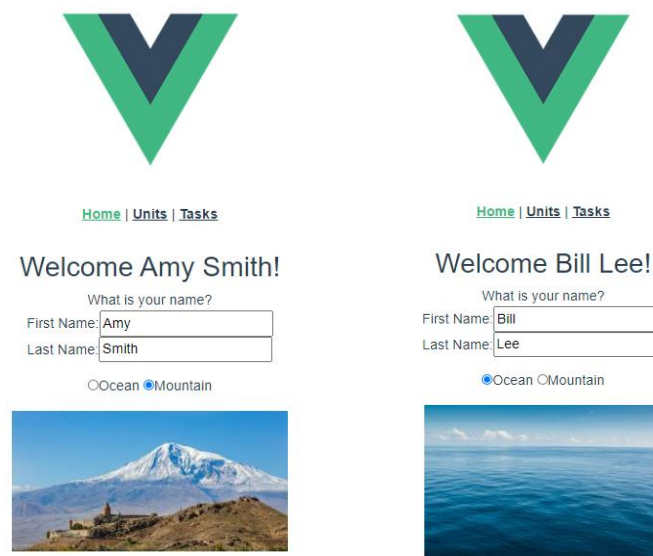
- Source code (html and/or javascript files).
- Screenshot of the webpage

Make sure that your task has the following in your submission:

- Code must be HTML5 standard and observe indentation.
- Your webpage uses the VueJS and Bootstrap framework appropriately.

Instructions

1. Install nodejs from <https://nodejs.org/en/download/>
2. Install Vue CLI, Create a new project named “my-study”. (Reference: lecture slides).
3. Run your project and view it from <http://localhost:8080/> (Reference: lecture slides).
4. Add router for your project. Run your project and make sure it is correct. (Reference: lecture slides).
5. Create three simple single file components Home.vue, Tasks.vue and Units.vue. Inside the components, you can just display a <h2> and a <p>. Modify the router created by Vue CLI to have three items: Home, Tasks and Units. Make them link to the Home, Tasks and Units components. (Reference: lecture slides). Test your app, make sure it is working.
6. Improve the Home.vue component:
 - Include two inputs for user’s first name and last name.
 - Display welcome message based on user’s name.
 - Show an image based on user’s selection on two radio buttons, such as mountain or ocean.



7. Improve the Units.vue component to display a list of units stored in a json file. Your Units.vue file may look like this:

```
<template>

    <!-- use a table to display all the units -->

</template>
```

```


<script>
import Units from "../assets/units.json";    // your json file is under assets
export default {
  name: 'Units',
  data: function(){
    return {units:Units}
  }
}
</script>

<!-- Add "scoped" attribute to limit CSS to this component only -->
<style scoped>

</style>

```

Your units page may look like this (you can use different styles):



[Home](#) | [Units](#) | [Tasks](#)

Units

Code	Description	cp	Type
ICT10001	Problem Solving with ICT	12.5	Core
COS10005	Web Development	12.5	Core
INF10002	Database Analysis and Design	12.5	Core
COS10009	Introduction to Programming	12.5	Core
COS20001	User-Centred Design	12.5	Software Development
TNE10005	Network Administration	12.5	Software Development
COS20016	Operating System Configuration	12.5	Software Development
INF20012	Enterprise Systems	12.5	Systems Analysis
ACC10007	Financial Information for Decision Making	12.5	Systems Analysis
INF20003	Requirements Analysis and Modelling	12.5	Systems Analysis
ACC20014	Management Decision Making	12.5	Systems Analysis
INF30001	Systems Acquisition & Implementation Management	12.5	Systems Analysis

8. Improve the Tasks.vue component: make it similar to 5.1 P (you can use your 5.1P component).
9. Test your app and submit to Canvas with screenshots.