



COMPSCI732 Tech Demo

—Frontend framework: Vue

Present by Zihao LUO



Introduction

1. Progressive JavaScript Framework

2.

```
const ele = document.querySelector("...");
```

```
ele.value = "...";
```

3.

```
<template></template>
```

```
<script setup></script>
```

```
<style></style>
```



Vue Tool Support

1. Try if online

[Vue SFC Playground](#)

[Vue+Vite on StackBlitz](#)

2. Project Scaffolding

Vite: `init vue@latest`

Vue: `vue create my-project`

3. IDE Support:

VSCode + the Vue language Features extension

4. Browser Devtools:

Vue.js devtools

5. Testing: Cypress\ Vitest

6. Linting: ESLint

7. Formatting: Prettier\the Vue language Features extention



Create a new Vue project

1.

Open terminal command: `npm init vue@latest`

2.

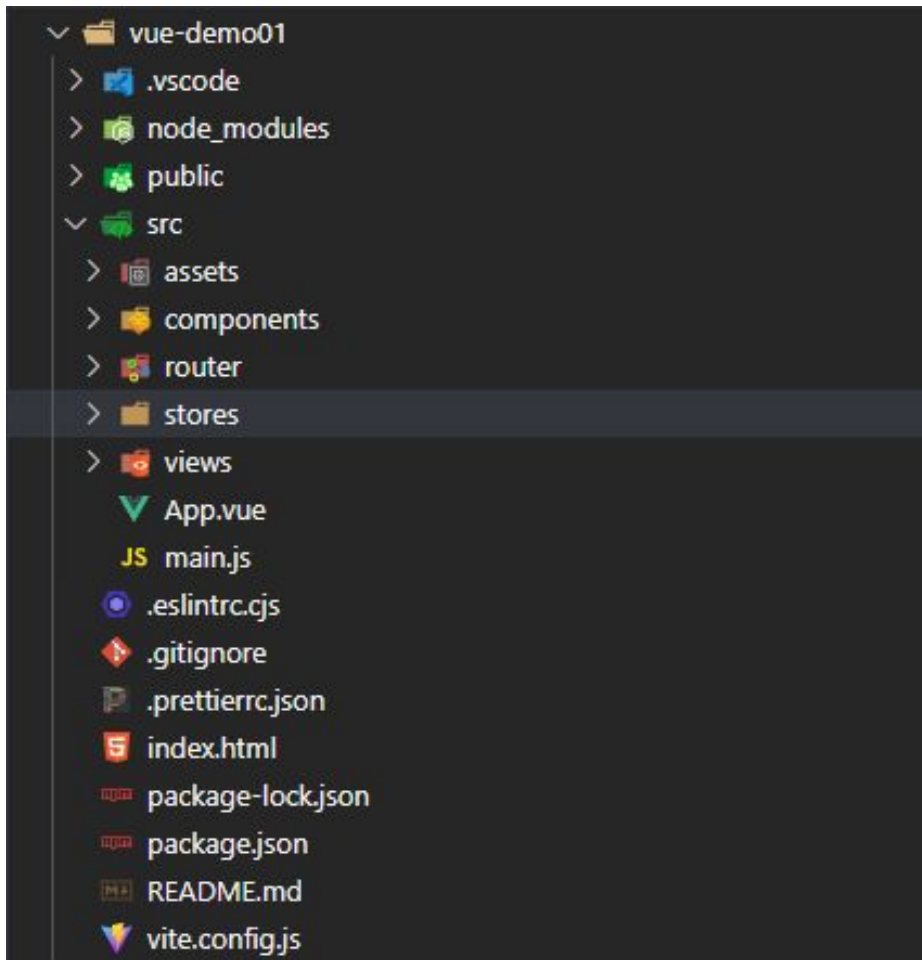
Install dependencies command: `npm install`

3.

Open the project in VSCode



The application structure of a new Vue project





Simple demo for routing and state management

1.

```
import {userRoute} from "vue-router";

setup(){
  const route = useRoute();
  console.log(route)
}
```

2.

```
import {userRouter} from 'vue-router';

setup(){
  const router = useRouter();
  const goHome = () =>{
    Router.push('/');
  }
}
```

3. Dynamic routing: `http://localhost:5173/dyrouteview/123?a=1&b=2#aaa`



A Simple Blog Page Demo



You did it!

You've successfully created a project with
Vite + Vue 3.

[Home](#) | [About](#) | [NewRoute](#)
[DynamicRoute](#) | [Blog Demo](#)

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Commonalities between Vue and React

- 1.Data-driven view*
- 2. Componentization*
- 3.Virtual Dom*
- ...*

Differences between Vue and React

- 1.Different core ideas*
- 2. Component writing difference*
- 3.Responsive principle is different*
- 4.Implementation of diff algorithm*
- 5.Differences in api*
- ...*

A movie review site

豆瓣电影

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Now in theaters



宇宙探索编辑部
★★★★★ 8.4



超级马力欧兄...
★★★★★ 8.1



平家物语：犬王
★★★★★ 7.8



燃烧的巴黎圣...
★★★★★ 7.0



忠犬八公
★★★★★ 8.0



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★★★★★ 6.7



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★★★★★ 6.2



你在我心上
★★★★★ 6.5



俄罗斯方块
★★★★★ 8.1



深海
★★★★★ 7.3



鲸
★★★★★ 8.0



网络谜踪2
★★★★★ 8.0



生无可恋的奥托
★★★★★ 7.6



中国乒乓之绝...
★★★★★ 6.8

Weekly Word of Mouth

- 1 宇宙探索编辑部
- 2 下一个素熙
- 3 金币灰黄
- 4 保你平安
- 5 铃芽之旅
- 6 小象守护者
- 7 蓝色珍妮
- 8 不止不休
- 9 瞒天劫
- 10 帕坦

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<https://github.com/UOA-CS732-SE750-Students-2023/cs732-se75-assignment-WilliamLUO0.git>