
API(Application Programming Interface)

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AGENDA

1. **API Introduction.**
2. **Types of API.**
3. **Web Service Architecture.**
4. **Web service.**
5. **Use Web Programming languages.**
6. **Project Interface.**
7. **Output of API.**

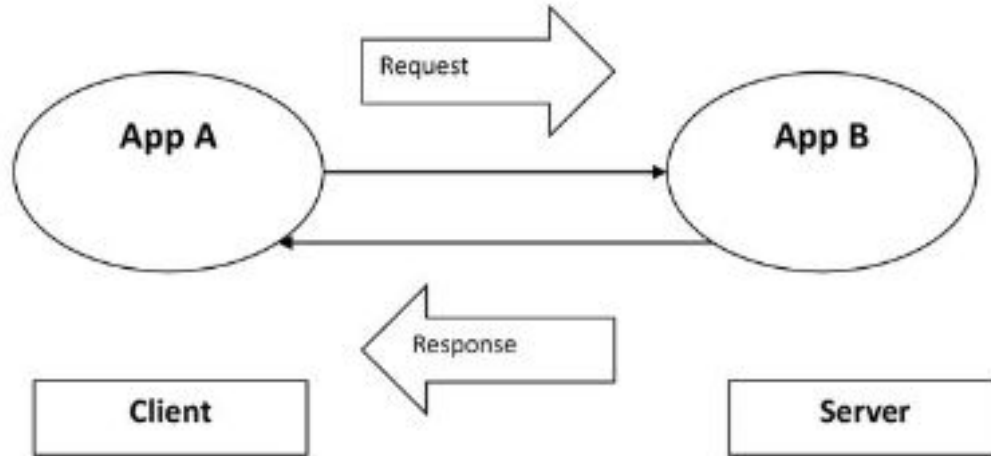
INTRODUCTION TO API

An API is a bridge that allows one software application to interact with and use the functionality or data of another application service, or platform.

TYPES OF API

1. **Public API**
2. **Internal API**
3. **Composite API**
4. **Partner API**

WEB SERVICE ARCHITECTURE



WEB SERVICE ARCHITECTURE

- **Client:** The application that requests data or services.
- **Server:** The application or system that provides data or services.
- **Request:** How the client communicates its needs to the server.
- **Response:** How the server provides the requested data or services back to the client.

WEB SERVICES

Web services are self-contained, modular, and distributed software components that enable various applications to interact with each other over the internet using standard protocols and data formats.

FOR INSTALLATION Vue js PROJECT

Command:

`npm init vue@latest`

`cd Project name`

`npm install`

`npm run dev`

```
amit@amit-HP-Laptop-15s-du1xxx:~/Desktop/web development/vue-project$ npm init vue@latest
Vue.js - The Progressive JavaScript Framework

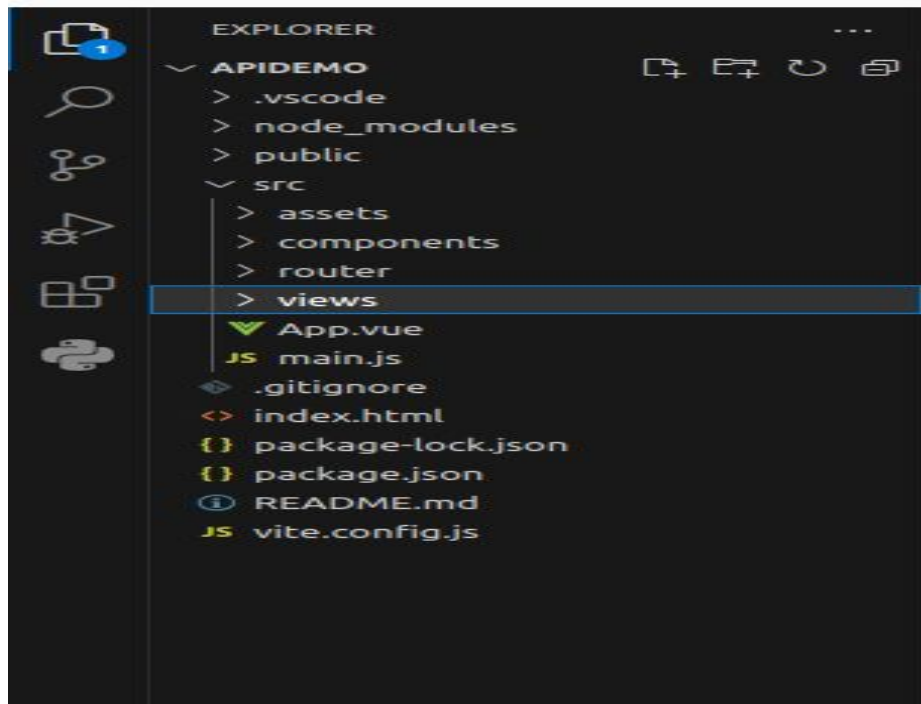
✓ Project name: ... vue-project
✓ Add TypeScript? ... No / Yes
✓ Add JSX Support? ... No / Yes
✓ Add Vue Router for Single Page Application development? ... No / Yes
✓ Add Pinia for state management? ... No / Yes
✓ Add Vitest for Unit Testing? ... No / Yes
✓ Add an End-to-End Testing Solution? › No
✓ Add ESLint for code quality? ... No / Yes

Scaffolding project in /home/amit/Desktop/web development/vue-project/vue-project...

Done. Now run:

  cd vue-project
  npm install
  npm run dev
```


PROJECT INTERFACE



```
amit@amit-HP-Laptop-15s-du1xxx:~/Desktop/web development/vue-project/APIDEMO$ npm run dev

> apidemo@0.0.0 dev
> vite

VITE v4.4.9 ready in 382 ms

+ Local: http://localhost:5173/
+ Network: use --host to expose
+ press h to show help
11:50:39 AM [vite] hmr update /src/components/HelloWorld.vue
2:49:29 PM [vite] hmr update /src/views/HomeView.vue
2:49:57 PM [vite] hmr update /src/views/HomeView.vue (x2)
```

OUTPUT OF API

Navbar Home My page Projects Help Disabled

Search

Search

Home Overview Activity Issues News Settings

OUTPUT OF API

Navbar Home My page Projects Help Disabled

New Issues

Dropdown button ▾

Subject

Email

Start Date: ☐

End Date: ☐

No file chosen

Gender
☐ Male ☐ Female

THANK
YOU