

Workshop Technology

JavaScript Frameworks

What is a framework?

- A framework is a library that offers **opinions** about how software gets built.
- These opinions allow for **predictability** and **homogeneity** in an application.
 - Predictability allows software to scale to an enormous size and still be maintainable.
 - Predictability and maintainability are essential for the health and longevity of software.

Vanilla JS or Framework?

- Vanilla JS
 - A less complex site, for example a personal to-do list or a site that displays mostly static content
- Framework
 - A large site with a complex UI. Frameworks provide solutions to common problems that would take an absurd amount of time and patience to implement with pure JavaScript.

Stack-Overflow survey 2025

- Stack-Overflow is a popular Q&A website for programmers.
- Every year, they conduct a survey to gather insights about the developer community.
- Here are the [results](#).

React

Get started with React (1/2)

- Open CMD/Terminal
- `pnpm create vite@latest`
 - Project name : `vite-project`
 - Select a framework : `React`
 - Select a variant : `JavaScript + SWC`
 - Use rollup-vite...? : `No`
 - Install with pnpm...? : `Yes`

```
admin@work ~\Desktop) pnpm create vite@latest
.../19add56e802-4694 | +1 +
.../19add56e802-4694 | Progress: resolved 1, reused
|
+ Project name:
  vite-project
|
+ Select a framework:
  React
|
+ Select a variant:
  JavaScript + SWC
|
+ Use rolldown-vite (Experimental)?:
  No
|
+ Install with pnpm and start now?
  Yes
|
+ Scaffolding project in C:\Users\admin\Desktop\vite-project...
|
+ Installing dependencies with pnpm...
Downloading @swc/core-win32-x64-msvc@1.15.3: 12.57 MB/12.57 MB, done
Packages: +153
```

Visit Your New React App

- Open your browser and go to <http://localhost:5173/>

Get started with React (2/2)

- Press `ctrl + c` to stop the development server.
 - Make sure you click on the terminal window first.
- Open VSCode
- Drag and drop the `vite-project` folder into VSCode
- In the terminal, run:
 - `pnpm run dev`

Customization (1/2)

- Title
 - Change this line in `index.html`.

```
<title>My very cool title</title>
```

Customization (2/2)

- Favicon
 - <https://www.favicongenerator.io/>
 - Make favicon and download.
 - Extract `favicon.svg` into `public` folder
 - Change this line in `index.html`.

```
<link rel="icon" type="image/svg+xml" href="/favicon.svg" />
```

Reset

- Clear content in `src/index.css` and `src/app.css`
- Replace `src/App.jsx` with

```
function App() {  
  return <></>;  
}  
  
export default App;
```

Styling

- Add the following line at the top of `src/App.jsx`

```
import "./App.css";
```

- You can now type CSS in `src/App.css`

Using CSS

App.jsx

```
import "./App.css";
```

CSS - Example 1

App.css

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
    margin: 1rem 1rem;  
    background-color: #f5f5f5;  
    color: #333333;  
}  
  
h1,  
h2 {  
    color: #2a5d8f;  
}  
  
img {  
    border-radius: 8px;  
}
```

CSS - Example 2

App.css

```
button {  
    background-color: #2a5d8f;  
    color: white;  
    border: none;  
    padding: 10px 20px;  
    border-radius: 5px;  
    cursor: pointer;  
}  
  
input {  
    padding: 8px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    margin-right: 10px;  
}
```

State Management

```
import { useState } from "react";

function App() {
  const [count, setCount] = useState(0);

  return (
    <>
      <h2>Count: {count}</h2>
      <button onClick={() => setCount(count + 1)}>Click me!</button>
    </>
  );
}
```

Send Discord Message

Get Discord Webhook URL

- Go to your Discord server.
- Go to `Server Settings` > `Integrations` > `Webhooks`.
- Create a new webhook and copy the webhook URL.

Sounboard

PEOPLE

Members

Roles

Invites

Access

APPS

Integrations

App Directory

0

MODERATION

Safety Setup

Audit Log

Bans

AutoMod

Enable Community

Server Boost Status

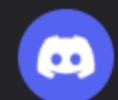
259106: Workshop Technology
Server Template

Integrations > Webhooks

Webhooks are a simple way to post messages from other apps and websites into Discord using internet magic. Learn more, or try building one yourself.

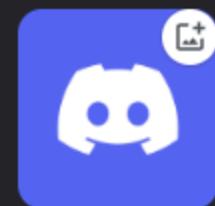
New Webhook

Posting to #general



Spidey Bot

Created on Aug 6, 2025 by nnnpooh



Minimum Size: 128x128

Name

Spidey Bot

Channel

#general

Copy Webhook URL

Delete Webhook

In App return statement

```
<h2>Contact Me</h2>
<input type="text" id="message" />
<button onClick={sendWebhook}>Poke Me</button>
```

In App function body

```
// Send discord webhook
function sendWebhook() {
  const webhookUrl = "" // Replace with your webhook URL

  const message = document.getElementById("message").value ?? "Hello!";
  const corsProxy = "https://cors.iecmu.com";
  fetch(corsProxy + "/" + webhookUrl, {
    method: "POST",
    headers: {
      "Content-Type": "application/json",
    },
    body: JSON.stringify({
      content: message,
    }),
  });
}
```

Build

- `pnpm run build`

Preview

- `npm run preview`

Deploy

- Deploy `./dist` folder to Netlify.

Full Source Code

<https://github.com/inter-workshop-68/react-app>