
Nish.js: The Blazing-Fast SSR-Only Framework

Overview

Nish.js is the lightest and fastest JavaScript framework ever built, designed specifically for rendering everything on the server side (SSR). By entirely offloading rendering to the server, Nish.js eliminates the overhead of client-side JavaScript frameworks, ensuring unparalleled speed and performance.

Weighing just **3 KB gzipped**, Nish.js is an ultra-light framework, optimized for real-time rendering and minimal resource consumption. The philosophy behind Nish.js is simplicity, efficiency, and speed. Whether you're building a blog, an e-commerce website, or a complex dashboard, Nish.js focuses on delivering the best possible performance.

Key Features

- **Pure SSR:** All rendering happens on the server, ensuring faster load times.
 - **Minimalistic API:** With only a handful of functions, Nish.js has a near-zero learning curve.
 - **SEO-Friendly:** SSR ensures fully rendered pages are ready for search engine crawlers.
 - **Blazing Fast:** No client-side hydration, making page transitions lightning quick.
 - **Framework Agnostic:** Plug into existing Node.js servers or use it standalone.
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Advantages of Nish.js

1. Speed:

- Eliminates client-side rendering overhead.
- Outperforms modern frameworks in Time-to-First-Byte (TTFB).

2. Lightweight:

- At 3 KB gzipped, Nish.js won't bloat your project.

3. SEO Optimization:

- Fully rendered HTML ensures excellent SEO performance.

4. Simplicity:

- The minimal setup makes Nish.js beginner-friendly.

5. No Hydration:

- Avoids hydration complexities, leading to faster interaction times.
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Disadvantages of Nish.js

1. Interactivity:

- Without client-side rendering, interactive components (e.g., modals, forms) require external handling (e.g., vanilla JS).

2. Limited Ecosystem:

- As a niche framework, Nish.js doesn't have the plugin and tool support of larger ecosystems.

3. Server Dependency:

- Requires a robust backend server, making it less ideal for purely static or client-heavy applications.

4. No Client-Side Routing:

- Page transitions are server-driven, which may not suit SPA-like applications.

Getting Started with Nish.js

Installation

You can install Nish.js using npm or yarn:

```
npm install nish.js
```

Or with yarn:

```
yarn add nish.js
```

Basic Server Setup

Nish.js requires a Node.js server to function. Below is an example of setting up a simple Nish.js-powered server:

```
const Nish = require('nish.js');
const http = require('http');

const app = Nish();

app.route('/', async () => {
  return `
    <html>
      <head><title>Welcome to Nish.js</title></head>
      <body>
        <h1>Hello, World!</h1>
        <p>Welcome to the fastest JavaScript framework!</p>
      </body>
    </html>
  `;
});
```

```
        </body>
      </html>
    `;
  });

  http.createServer(app.handler()).listen(3000, () => {
    console.log('Nish.js server is running on http://localhost:3000');
  });
```

Run the server using:

```
node server.js
```

Visit <http://localhost:3000> to see Nish.js in action.

Tutorial: Building a Blog with Nish.js

Step 1: Setting Up the Project

Initialize a new Node.js project:

```
mkdir nish-blog && cd nish-blog
npm init -y
npm install nish.js
```

1.

Create a `server.js` file:

```
const Nish = require('nish.js');
const http = require('http');

const app = Nish();
```

```
app.route('/', async () => {
  return `
    <html>
      <head><title>Nish.js Blog</title></head>
      <body>
        <h1>Welcome to My Blog</h1>
        <a href="/posts">View Posts</a>
      </body>
    </html>
  `;
});
```

```
app.route('/posts', async () => {
  const posts = [
    { title: 'First Post', content: 'This is the first post.' },
    { title: 'Second Post', content: 'This is the second post.' },
  ];
```

```
  const postsHtml = posts
    .map(
      (post) => `
        <article>
          <h2>${post.title}</h2>
          <p>${post.content}</p>
        </article>
      `
    )
    .join("");
```

```
  return `
    <html>
      <head><title>Blog Posts</title></head>
      <body>
        <h1>Blog Posts</h1>
        ${postsHtml}
      </body>
    </html>
  `;
});
```

```
    <a href="/">Go Back</a>
  </body>
</html>
`;
});

http.createServer(app.handler()).listen(3000, () => {
  console.log('Blog is live on http://localhost:3000');
});
```

2.

Run the server:

```
node server.js
```

3.

Step 2: Styling Your Blog

To add styling, use a `<style>` block in your HTML templates:

```
app.route('/', async () => {
  return `
    <html>
      <head>
        <title>Nish.js Blog</title>
        <style>
          body {
            font-family: Arial, sans-serif;
            line-height: 1.6;
          }
          h1 {
            color: #333;
          }
        </style>
      </head>
    </html>
  `;
});
```

```
    a {
      color: #007BFF;
      text-decoration: none;
    }
  </style>
</head>
<body>
  <h1>Welcome to My Blog</h1>
  <a href="/posts">View Posts</a>
</body>
</html>
`;
});
```

Conclusion

Nish.js redefines speed and simplicity for SSR applications. It's an ideal choice for static sites, blogs, and SEO-critical projects. While it may not replace full-fledged frameworks like React or Vue for client-heavy apps, Nish.js excels in performance-driven use cases.

Get started with Nish.js today and experience the fastest SSR solution in the JavaScript ecosystem! 🚀