

## 2. Fumadocs

Fumadocs was selected because it offers several key benefits:

- **Next.js Integration:** Works seamlessly with modern React/Next.js projects.
- **MDX Support:** Allows combining Markdown with React components, making documentation interactive.
- **Automatic Routing:** Files in `app/docs/` automatically map to URLs, simplifying structure.
- **Responsive UI:** Provides a ready-to-use, modern layout without extra styling work.
- **Fast Prototyping:** Easy to set up and create demo documentation quickly for stakeholders.

### Suitability for ShebaBondhu

Fumadocs is particularly suitable for **developer-focused documentation**. The following table summarizes its features and suitability:

Feature	Suitability	Notes
Interactive Docs	Suitable	Can embed React components for UI demos and workflow steps.
Team Collaboration	Partially Suitable	Git-based workflow supported, but lacks real-time collaborative editing.
Easy Setup	Suitable	Minimal configuration; dev server works out-of-the-box.
Deployment	Suitable	Can host on GitHub Pages or Vercel easily.
Version Control	Suitable	Fully integrates with Git/GitHub for version tracking.

### Advantages

- Fast setup with minimal configuration.
- Interactive documentation with MDX components.
- Automatic routing from `app/docs/*.mdx` to `/docs/*`.
- Modern, responsive UI ready out-of-the-box.
- Fully version-controlled via Git.

### Disadvantages

- No WYSIWYG editor; requires Markdown/MDX knowledge.
- Limited collaboration; lacks real-time editing.
- Template dependency; may need customization for branding.
- Learning curve for beginners unfamiliar with Next.js or MDX.

- Limited API support; all API references must be manually written.
- **Not Auto-Generating Docs:** It does **not** scan your project and generate docs automatically. You still need to **manually write .mdx or .md files** and organize them.

### How Fumadocs can be installed and implemented in ShebaBondhu:

- Check the node and npm version (if installed if not install it).

```
User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs
$ node -v
v22.16.0

User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs
$ npm -v
v22.16.0
```

- Check github version (need to clone a template) and clone a fumadocs template from github

```
User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs
$ git --version
git version 2.50.0.windows.1
git version 2.50.0.windows.1

User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs
$ git clone https://github.com/fuma-nama/fumadocs-ui-template demo-docs
Cloning into 'demo-docs'...
Cloning into 'demo-docs'...
remote: Enumerating objects: 920, done.
remote: Counting objects: 100% (471/471), done.
remote: Compressing objects: 100% (147/147), done.
remote: Total 920 (delta 337), reused 337 (delta 319), pack-reused 449 (from 2)
Receiving objects: 100% (920/920), 83.96 KiB | 145.00 KiB/s, done.
Resolving deltas: 100% (556/556), done.
```

- Install npm .

```
• User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs
$ cd demo-docs

• User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs/demo-docs (main)
$ npm install

> fumadocs-ui-template@0.0.0 postinstall
> fumadocs-mdx

[MDX] types generated

added 255 packages, and audited 256 packages in 4m

127 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New major version of npm available! 10.9.2 -> 11.6.1
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.6.1
npm notice To update run: npm install -g npm@11.6.1
npm notice
```

- **Connect to the server (localhost/3000)**

```
User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs/demo-docs (main)
$ npm run dev

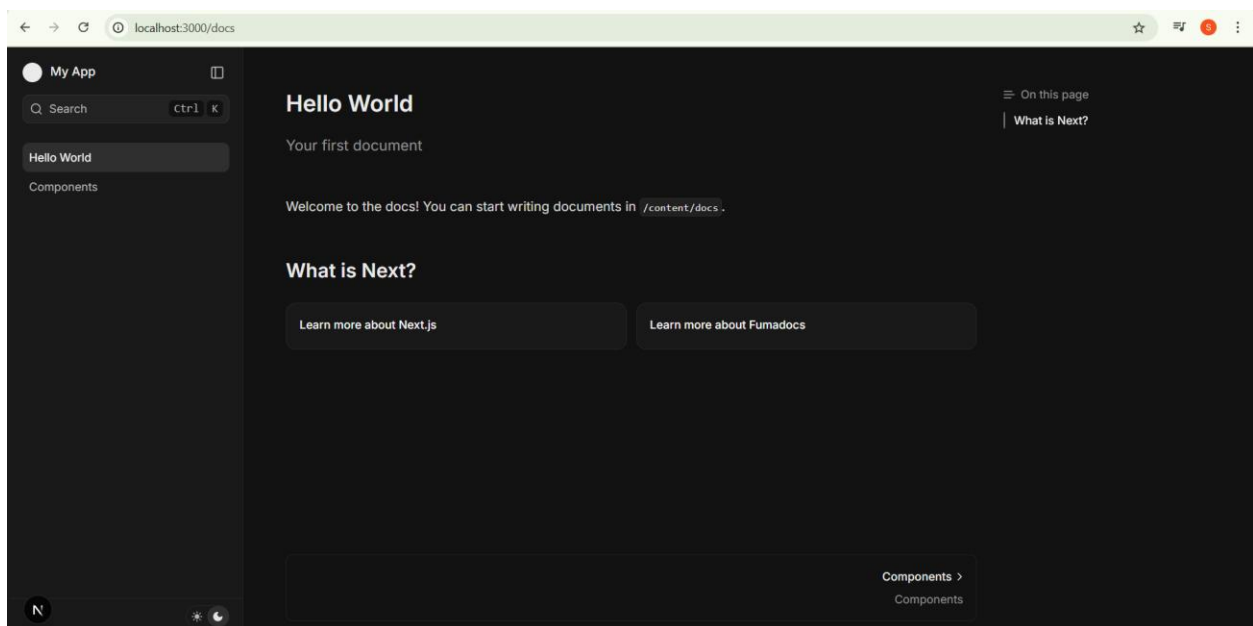
> fumadocs-ui-template@0.0.0 dev
> next dev --turbo

[MDX] updated map file in 7.313500000000204ms
[MDX] started dev server
  ▲ Next.js 15.5.4 (Turbopack)
  - Local:      http://localhost:3000
  - Network:    http://192.168.0.135:3000

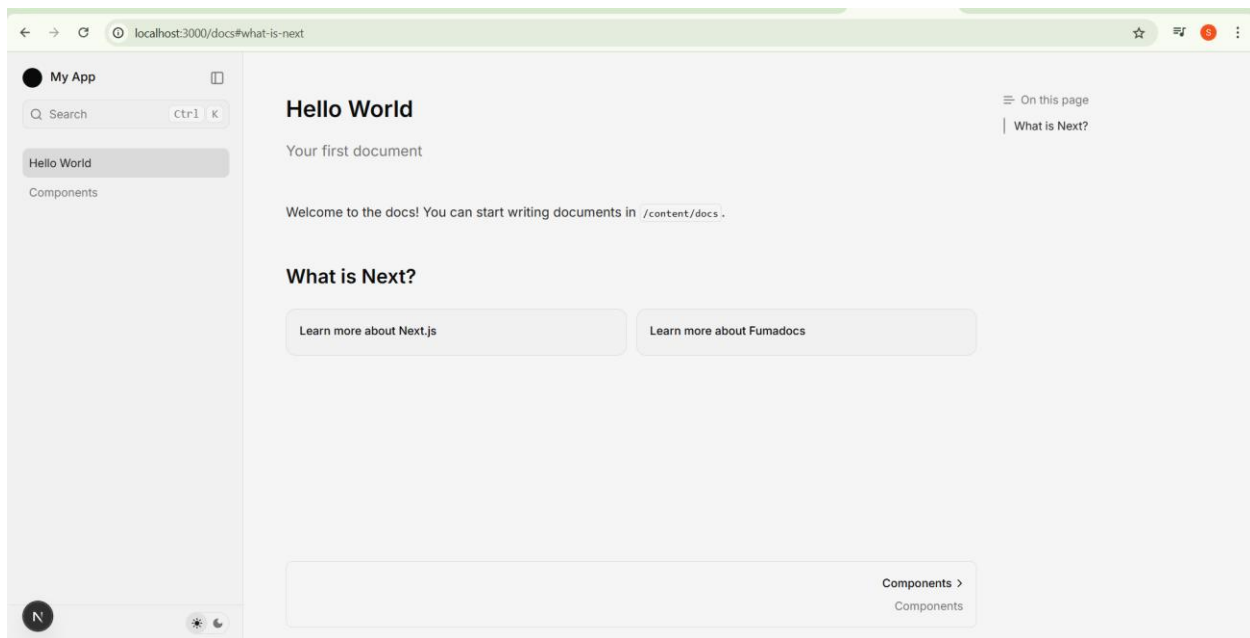
✓ Starting...
Attention: Next.js now collects completely anonymous telemetry regarding usage.
This information is used to shape Next.js' roadmap and prioritize features.
You can learn more, including how to opt-out if you'd not like to participate in this anonymous program, by visiting the following URL:
https://nextjs.org/telemetry

✓ Ready in 19.5s
  o Compiling / ...
✓ Compiled / in 6.7s
GET / 200 in 7895ms
  o Compiling /docs/[...slug] ...
✓ Compiled /docs/[...slug] in 2.7s
⚠ metadataBase property in metadata export is not set for resolving social open graph or twitter images, using "http://localhost:3000". See https://nextjs.org/docs/app/api-reference/functions/generate-metadata#metadatabase
GET /docs 200 in 3599ms
```

- **The documentation will be like this**



- **It has both light and dark mode**

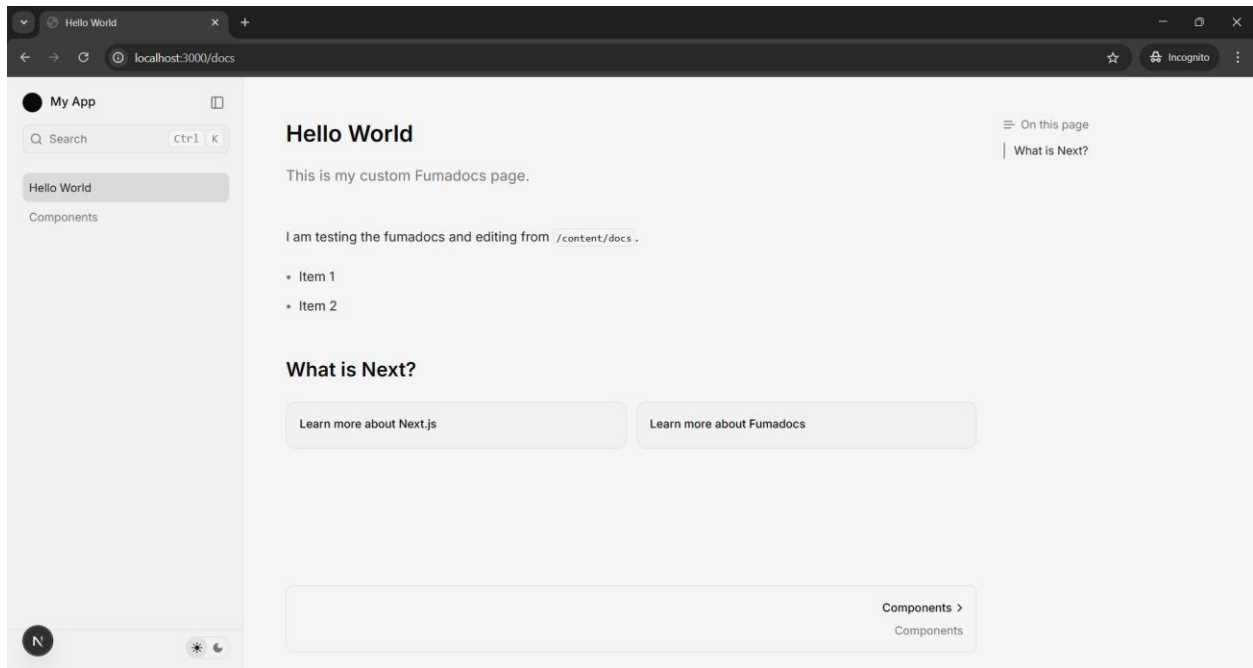


- **Manually editing the documentation**

```
index.mdx M X
fumadocs > demo-docs > content > docs > index.mdx
1 ---
2 title: Hello World
3 description: This is my custom Fumadocs page.
4
5 ---
6
7 I am testing the fumadocs and editing from `/content/docs`.
8
9 - Item 1
10 - Item 2
11
12 ## What is Next?
13
14 <Cards>
15   <Card title="Learn more about Next.js" href="https://nextjs.org/docs" />
16   <Card title="Learn more about Fumadocs" href="https://fumadocs.vercel.app" />
17 </Cards>
18

[MDX] closing dev server

User@LAPTOP-TD62THB8 MINGW64 /d/Academic/year 4 sem 1/STM lab/fumadocs/demo-docs (main)
$ npm run dev
⚠ metadataBase property in metadata export is not set for resolving social open graph or twitter images, using "http://localhost:3000". See h
https://nextjs.org/docs/app/api-reference/functions/generate-metadata#metadatabase
GET /docs 200 in 703ms
GET /docs 200 in 704ms
GET /docs 200 in 705ms
[MDX] updated map file in 2.86989999999905936ms
✓ Compiled in 32ms
✓ Compiled /docs/[...slug]] in 63ms
⚠ metadataBase property in metadata export is not set for resolving social open graph or twitter images, using "http://localhost:3000". See h
https://nextjs.org/docs/app/api-reference/functions/generate-metadata#metadatabase
GET /docs 200 in 403ms
GET /docs 200 in 402ms
GET /docs 200 in 403ms
```



Fumadocs provides a modern, interactive documentation platform, it is better suited for front-end guides and technical notes rather than full API documentation.