




# **Next.js**

## **Folder Structure**

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# Basic



```
1  my-next-app/
2  |— public/
3  |   |— images/           # Static images
4  |       |— logo.png
5  |— styles/
6  |   |— globals.css       # Global CSS styles
7  |— pages/
8  |   |— api/              # API routes
9  |       |— hello.js
10 |   |— _app.js           # Custom App component
11 |   |— _document.js      # Custom Document component
12 |   |— index.js          # Home page
13 |   |— about.js          # About page
14 |— package.json
15 |— next.config.js        # Next.js configuration file
```

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# Intermediate

```
1  my-next-app/
2  |— public/
3  |   |— images/
4  |— styles/
5  |   |— globals.css
6  |   |— Home.module.css      # CSS module for Home page
7  |— pages/
8  |   |— api/
9  |   |— _app.js
10 |   |— _document.js
11 |   |— index.js
12 |   |— about.js
13 |   |— blog/                # Blog section
14 |       |— index.js         # Blog listing page
15 |       |— [slug].js        # Dynamic blog post page
16 |— components/              # Reusable components
17 |   |— Header.js
18 |   |— Footer.js
19 |— context/                  # Context API for global state management
20 |   |— AppContext.js
21 |— hooks/                    # Custom hooks
22 |   |— useAuth.js
23 |— utils/                    # Utility functions
24 |   |— fetcher.js
25 |— package.json
26 |— next.config.js
```

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# Advanced

```
1 my-next-app/
2   └─ public/
3     └─ images/
4   └─ styles/
5     └─ globals.css
6     └─ Home.module.css
7     └─ Theme.module.css # CSS module for theming
8   └─ pages/
9     └─ api/
10    └─ _app.js
11    └─ _document.js
12    └─ index.js
13    └─ about.js
14    └─ blog/
15    └─ auth/ # Authentication pages
16        └─ login.js
17        └─ register.js
18  └─ components/
19    └─ Header.js
20    └─ Footer.js
21    └─ Layout.js # Layout component for pages
22    └─ UI/ # UI components (buttons, inputs, etc.)
23        └─ Button.js
24        └─ Input.js
25  └─ context/
26    └─ AppContext.js
27    └─ AuthContext.js # Auth context
28  └─ hooks/
29    └─ useAuth.js
30    └─ useFetch.js # Custom fetch hook
31  └─ layouts/ # Page layouts
32    └─ MainLayout.js
33  └─ middleware/ # Middleware for authentication, etc.
34    └─ auth.js
35  └─ services/ # Services for API calls
36    └─ apiService.js
37  └─ types/ # TypeScript types (if using TypeScript)
38    └─ index.d.ts
39  └─ tests/ # Unit and integration tests
40    └─ components/
41    └─ pages/
42  └─ package.json
43  └─ next.config.js
```



# Explanation of Key Folders

- **public/:** Contains static assets like images, fonts, etc.
- **styles/:** Contains global styles and CSS modules for component-specific styles.
- **pages/:** Contains all pages of the application, including API routes.
- **components/:** Contains reusable UI components and any other specific components used throughout the application.
- **context/:** Used for Context API to manage global state.
- **hooks/:** Contains custom hooks that can be reused across the application.
- **layouts/:** Contains layout components that wrap pages for consistent styling and structure.
- **middleware/:** Contains middleware functions to run before rendering pages, useful for authentication and redirects.
- **services/:** Contains services for making API calls and other data-fetching logic.
- **tests/:** Contains unit tests and integration tests for components and pages.