

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/
32      └── MainLayout.js    # Page layouts
33    └── middleware/
34      └── auth.js          # Middleware for authentication, etc.
35    └── services/
36      └── apiService.js    # Services for API calls
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.