# Next.js Folder Structure

#### **Basic**

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

### **Intermediate**

```
my-next-app/
      - public/
        images/
      - styles/
        — globals.css
        Home.module.css # CSS module for Home page
       - pages/
        — api/
          - _app.js
          __document.js
11
          - index.js
12
          - about.js
13
         — blog/
                               # Blog section
            ─ index.js
                              # Blog listing page
15
            [slug].js
                              # Dynamic blog post page
       components/
                               # Reusable components
17
        - Header.js
        └─ Footer.js
18
      - context/
19
                               # Context API for global state management
        └─ AppContext.js
21
      - hooks/
                               # Custom hooks
        └─ useAuth.js
22
23
      - utils/
                               # Utility functions
        - fetcher.js
25

    package.json

     next.config.js
```

### **Advanced**

```
my-next-app/
     └─ images/
        Theme.module.css # CSS module for theming
    pages/
     __api/
        _app.js
      — index.js
         ├─ login.js
└─ register.js
    components/
        Layout.js
     __ UI/
         ├─ Button.js
└─ Input.js
     ├─ AppContext.js
└─ AuthContext.js
     useAuth.js
    useFetch.js
    layouts/
    middleware/
    components/
pages/
  package.json
    next.config.js
```

## **Explanation of Key Folders**

- public/: Contains static assets like images, fonts, etc.
- styles/: Contains global styles and CSS modules for componentspecific 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 datafetching logic.
- tests/: Contains unit tests and integration tests for components and pages.