```
1  project-root/
2  ├── app/                              // Core directory for app-based routing (Next.js 13)
3  │   ├── layout.tsx                    // Global layout for the application
4  │   ├── page.tsx                      // Entry point for the home page ("/")
5  │   ├── api/                          // API routes for serverless functions
6  │   │   ├── v1/                       // Versioning for API routes (optional but recommended)
7  │   │   │   ├── auth/                 // Authentication-related API routes
8  │   │   │   │   ├── route.ts          // Example authentication API route
9  │   ├── dashboard/                    // Dashboard section with nested routes
10 │   │   ├── layout.tsx                // Dashboard-specific layout (common layout for dashboard)
11 │   │   ├── page.tsx                  // Dashboard main page ("/dashboard")
12 │   │   ├── reports/                  // Subroute for reports under dashboard
13 │   │   │   ├── page.tsx              // Reports page ("/dashboard/reports")
14 │   └── error.tsx                     // Global error handling component (error boundary)
15 ├── components/                       // Reusable UI components
16 │   ├── Header/                       // Folder for the Header component
17 │   │   ├── Header.tsx                // Header component file
18 │   ├── Footer/                       // Folder for the Footer component
19 │   │   ├── Footer.tsx                // Footer component file
20 │   ├── Button/                       // Folder for the Button component
21 │   │   ├── Button.tsx                // Button component file
22 ├── hooks/                            // Custom React hooks
23 │   ├── useAuth.ts                    // Hook for authentication logic
24 │   ├── useFetch.ts                   // Hook for fetching data
25 ├── services/                         // API service integrations
26 │   ├── user/                         // Folder for user-related services
27 │   │   ├── userService.ts            // Service to handle user-related API calls
28 │   ├── product/                      // Folder for product-related services
29 │   │   ├── productService.ts         // Service to handle product-related API calls
30 ├── styles/                           // Global and modular styles
31 │   ├── globals.css                   // Application-wide global styles
32 │   ├── variables.css                 // CSS variables and themes (for consistent styling)
33 │   ├── components/                   // Component-specific CSS modules
34 │   │   ├── Button.module.css         // Styles specific to Button component
35 │   │   ├── Header.module.css         // Styles specific to Header component
36 ├── types/                            // Global and modular Types
37 │   ├── exampleDataType.ts            // Example data type definition (useful for type safety)
38 ├── public/                           // Static assets (images, fonts, etc.)
39 │   ├── images/                       // Folder for images and icons
40 │   ├── fonts/                        // Folder for custom fonts
41 │   └── favicon.ico                   // Favicon for the app
42 ├── tests/                            // Test files
43 │   ├── unit/                         // Unit tests for individual components or functions
44 │   ├── integration/                  // Integration tests for end-to-end workflows
45 │   ├── e2e/                          // End-to-end tests for the entire application
46 ├── .env.local                        // Local environment variables for the app (e.g., API keys)
47 ├── next.config.js                    // Next.js configuration file
48 ├── tsconfig.json                     // TypeScript configuration file
49 └── package.json                      // Dependencies and scripts for the project
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for app-based routing (Next.js 13)
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API routes (optional but recommended)
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Authentication-related API routes
│   │   │   │   ├── route.ts          // Example
authentication API route
│   ├── dashboard/                    // Dashboard
section with nested routes
│   │   ├── layout.tsx                //
Dashboard-specific layout (common layout for dashboard)
│   │   ├── page.tsx                  // Dashboard main
page ("/dashboard")
│   │   ├── reports/                  // Subroute for
reports under dashboard
│   │   │   ├── page.tsx              // Reports page
("/dashboard/reports")
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handling component (error boundary)
├── components/                       // Reusable UI
components
│   ├── Header/                       // Folder for the
Header component
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```
|   |       ├── Header.tsx                   // Header
component file
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Footer component
|   |       ├── Footer.tsx                   // Footer
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|   |       ├── userService.ts               // Service to
handle user-related API calls
|       ├── product/                         // Folder for
product-related services
|   |       ├── productService.ts            // Service to
handle product-related API calls
├── styles/                                  // Global and
modular styles
|       ├── globals.css                      //
Application-wide global styles
|       ├── variables.css                    // CSS variables
and themes (for consistent styling)
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├── .env.local                              // Local environment variables for the app (e.g., API keys)
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└── package.json                          // Dependencies
and scripts for the project
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