Blogs Context - React Application

**🔗 Live Project:** <https://blog-app-naitik.vercel.app/>  
**🔗 GitHub Repository:** <https://github.com/Naitik4897/BlogApp>

A modern React application for managing and displaying blog posts using Context API for state management. It includes client-side routing with React Router and is styled with Tailwind CSS.

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# ✨ Features

* Blog Management: View, filter, and paginate through blog posts
* Context API: Centralized state management using React Context
* Routing: Multi-page navigation with React Router DOM
* Responsive Design: Mobile-first responsive design with Tailwind CSS
* Search & Filter: Filter blogs by categories and tags
* Pagination: Navigate through multiple pages of blog posts
* Loading States: Spinner component for better UX
* Blog Details: Individual blog post view with detailed content

# 🛠️ Technologies Used

* React 18.2.0 - Frontend framework
* React Router DOM 7.6.3 - Client-side routing
* Tailwind CSS 3.3.0 - Utility-first CSS framework
* Context API - State management
* PostCSS & Autoprefixer - CSS processing
* React Testing Library - Testing utilities

# 📁 Project Structure

* blogs-context-starter/
* ├── public/
* │ ├── favicon.ico
* │ ├── index.html
* │ ├── logo192.png
* │ ├── logo512.png
* │ ├── manifest.json
* │ └── robots.txt
* ├── src/
* │ ├── Components/ (BlogDetails, Blogs, Header, Pagination, Spinner.css, Spinner.jsx)
* │ ├── Context/ (AppContext.js)
* │ ├── Pages/ (BlogPage, CategoryPage, Home, TagPage)
* │ ├── App.css, App.js, baseUrl.js, index.css, index.js, logo.svg
* ├── .gitignore, package.json, postcss.config.js, README.md, tailwind.config.js

# 🚀 Installation

* Clone the repository: git clone https://github.com/Naitik4897/BlogApp
* Navigate to project: cd blogs-context-starter
* Install dependencies: npm install
* Start development server: npm start
* Open your browser and go to: http://localhost:3000

# 🌐 Deployment

* Push your project to GitHub
* Sign in to Vercel with your GitHub account
* Click 'New Project', import the repository
* Vercel auto-detects it's a React app
* Click 'Deploy'

# 📦 GitHub Setup

* Create a new repository on GitHub
* Connect your local repo:  
   git remote add origin https://github.com/yourusername/blogs-context-starter.git
* Set default branch:  
   git branch -M main
* Push to GitHub:  
   git push -u origin main

# 🔐 Environment Variables

Create a .env file with the following:

* REACT\_APP\_API\_URL=your-api-url

# 🎯 Usage

* Home Page: Browse all blog posts with pagination
* Blog Details: Click on any blog post to view full details
* Category Filter: Filter blogs by specific categories
* Tag Filter: Filter blogs by tags
* Navigation: Use the header to navigate between pages

# 📜 Available Scripts

* npm start - Runs the app in development mode
* npm build - Builds the app for production
* npm test - Launches the test runner
* npm eject - Ejects from Create React App (irreversible)

# 🧩 Components

* Header: Navigation component with routing links
* Blogs: Main component displaying list of blog posts
* BlogDetails: Individual blog post component
* Pagination: Navigation for multiple pages
* Spinner: Loading indicator component

# 🔄 Context API

* AppContext: Centralized state management
* Global State: Manages blogs data, loading states, and pagination
* Context Provider: Wraps the entire application
* State Distribution: Provides data to all components

# 📄 Pages

* Home: Main landing page with blog listing
* BlogPage: Individual blog post page
* CategoryPage: Filtered view by category
* TagPage: Filtered view by tags

# 🤝 Contributing

* Fork the repository
* Create a feature branch (git checkout -b feature/amazing-feature)
* Commit your changes (git commit -m 'Add some amazing feature')
* Push to the branch (git push origin feature/amazing-feature)
* Open a Pull Request

# 📝 License

This project is part of a React learning series and is available for educational purposes.

# 🔗 Additional Resources

* React Documentation
* React Router Documentation
* Tailwind CSS Documentation
* Context API Guide