

# n News App Project Documentation

## Introduction

Welcome to the News App project. This application provides users with the latest headlines and categorized news, offering a clean and user-friendly experience.

## Project Overview

The News App is designed to fetch real-time news articles from a public API and display them in an organized format. The app supports category-based browsing, search functionality, and a responsive interface for both mobile and desktop users.

## Architecture

The application follows a modular component-based architecture using React.

- Frontend: React, React Router, Axios
- State Management: React Context / Redux
- Styling: TailwindCSS / CSS Modules
- API: NewsAPI.org or similar

## Setup Instructions

1. Clone the repository  
`git clone cd news-app`
2. Install dependencies  
`npm install`
3. Add your API key in .env file:  
`REACT_APP_NEWS_API_KEY=your_api_key`

## Folder Structure

```
news-app/  
  nnn public/  
  nnn src/  
    n nnn components/ n  
    nnn pages/  
    n nnn hooks/  
    n nnn context/  
    n nnn assets/  
    n nnn App.js  
    n nnn index.js  
  nnn package.json  
  nnn README.md
```

## Running the Application

Run the development server:  
npm start

The app will be available at <http://localhost:3000>.

## Component Documentation

- NavBar: Navigation and category selection
- NewsList: Displays fetched news articles
- NewsCard: Shows individual article preview
- SearchBar: Allows keyword-based search
- Loader: Displays loading animation

## State Management

Uses React Context API (or Redux if chosen)

Global state handles:

- Selected category
- Search query
- Loading state
- API response

## User Interface

Clean, minimalistic UI

Responsive grid for news cards

Dark and light mode support (optional)

## Styling

Implemented using TailwindCSS for consistency and responsiveness.

## Testing

Unit tests written using Jest + React Testing Library.

Covers:

- API fetch
- Component rendering
- Search functionality

## Demo Video Link

n [[Copy of SB NEWS.mp4 - Google Drive](#)]

## Known Issues

- Free News API has request limits

- Some articles may not load images
- No offline mode yet

## **Future Enhancements**

- Add user authentication & bookmarks
- Push notifications for breaking news
- Offline mode with cached articles
- Multi-language support