

Art Institute Explorer

React + TypeScript Solo Project

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Project Overview

Art Institute of Chicago API Explorer

A web application for browsing the Art Institute of Chicago's collection, saving favorite artworks, and adding personal notes.

Search

API Integration

Save

localStorage

Notes

Zod-validated

Delete

Full CRUD

Technology Stack

React 19

UI Framework with Hooks

TypeScript

Type-safe Development

Vite

Build Tool & Dev Server

Zod

Schema Validation

localStorage

Persistent Data Storage

CSS Modules

Scoped Styling

Code Architecture

src/

components/

ArtworkCard, Gallery, SearchBar, SearchResults

schemas/

ArtworkSchema, NoteSchema, GallerySchema (Zod)

hooks/

useGallery (Custom Hook for State)

api/

searchArtworks, getArtworkById

App.tsx

Main App Component

Key Patterns

Type-safe State with Zod-inferred Types

Custom Hook for Gallery Logic (Separation of Concerns)

API Validation with safeParse()

All Requirements Fulfilled

React + Vite + TypeScript

Zod Schema Validation

API Fetch with Validation

Search Interface

ArtworkCard Component

Gallery Component

Add to Gallery (Create)

Display Gallery (Read)

Notes with Zod (Update)

Remove from Gallery (Delete)

Type-Safe State

localStorage Persistence

Code Quality: 0 Critical Issues