

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

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