

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