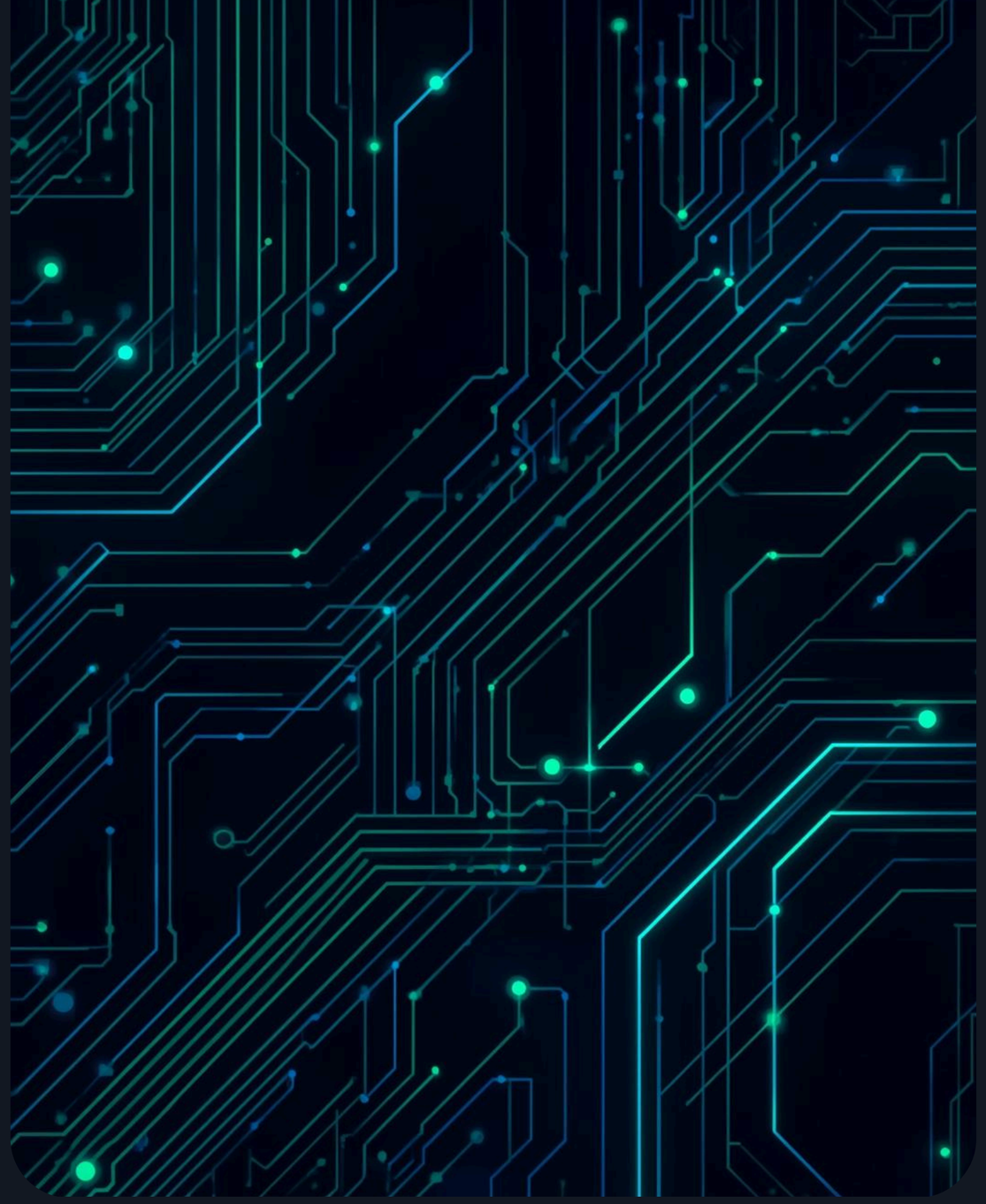
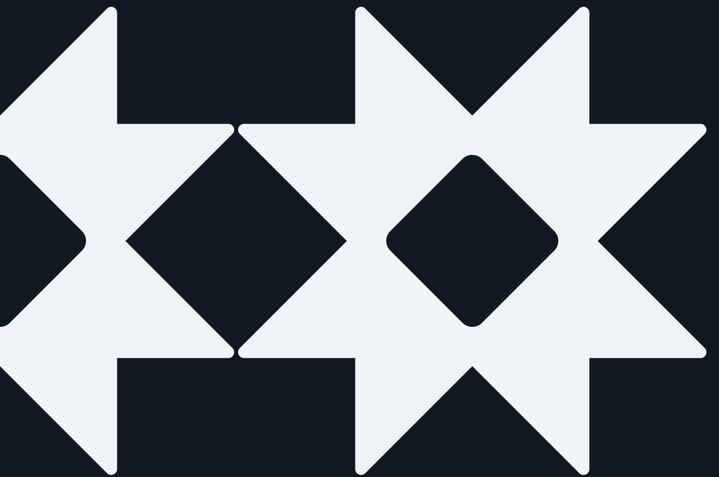
Personal Portfolio Web Application



Abdulaziz Alguraini, 202255320, 11/12/2025

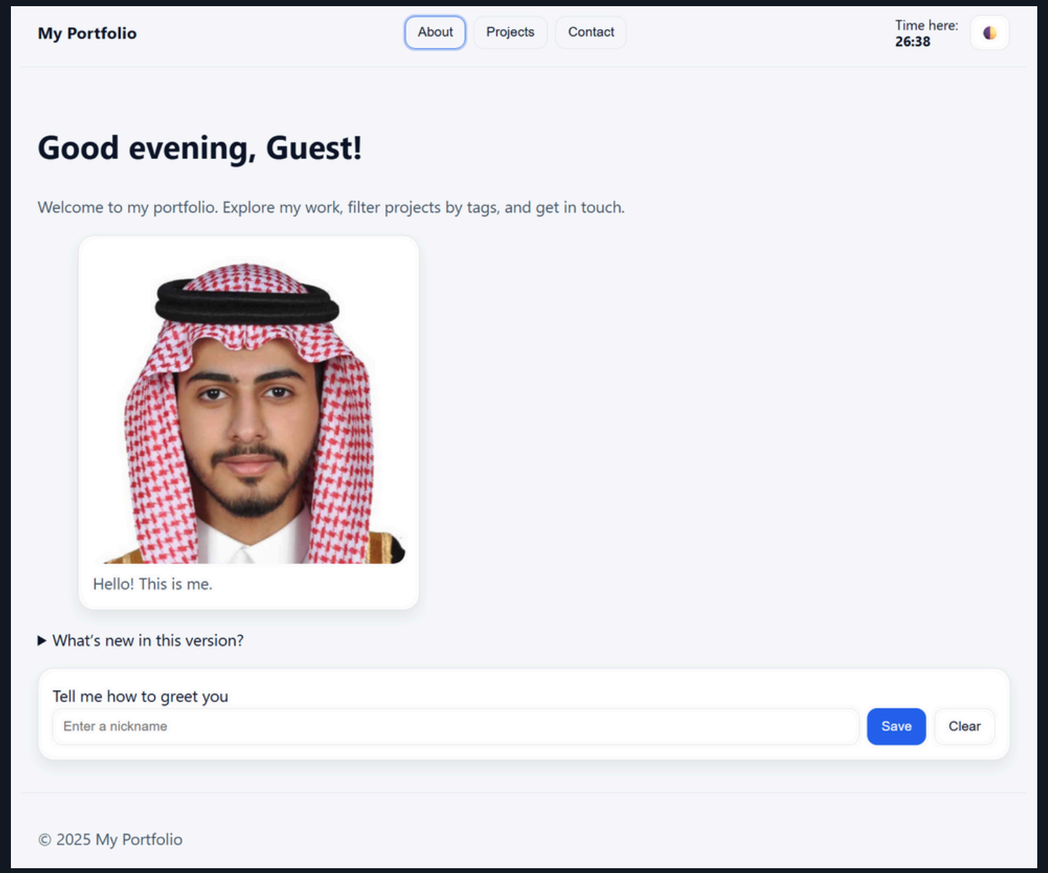
Project Overview



AN INTRODUCTION TO MY PORTFOLIO WEBSITE

This portfolio website is built using **HTML**, **CSS**, and **JavaScript** without frameworks, showcasing my work and skills, and deployed effortlessly on **GitHub Pages**.

Personalization Features



01 **TIME-BASED GREETING**

Personalized message based on the time.

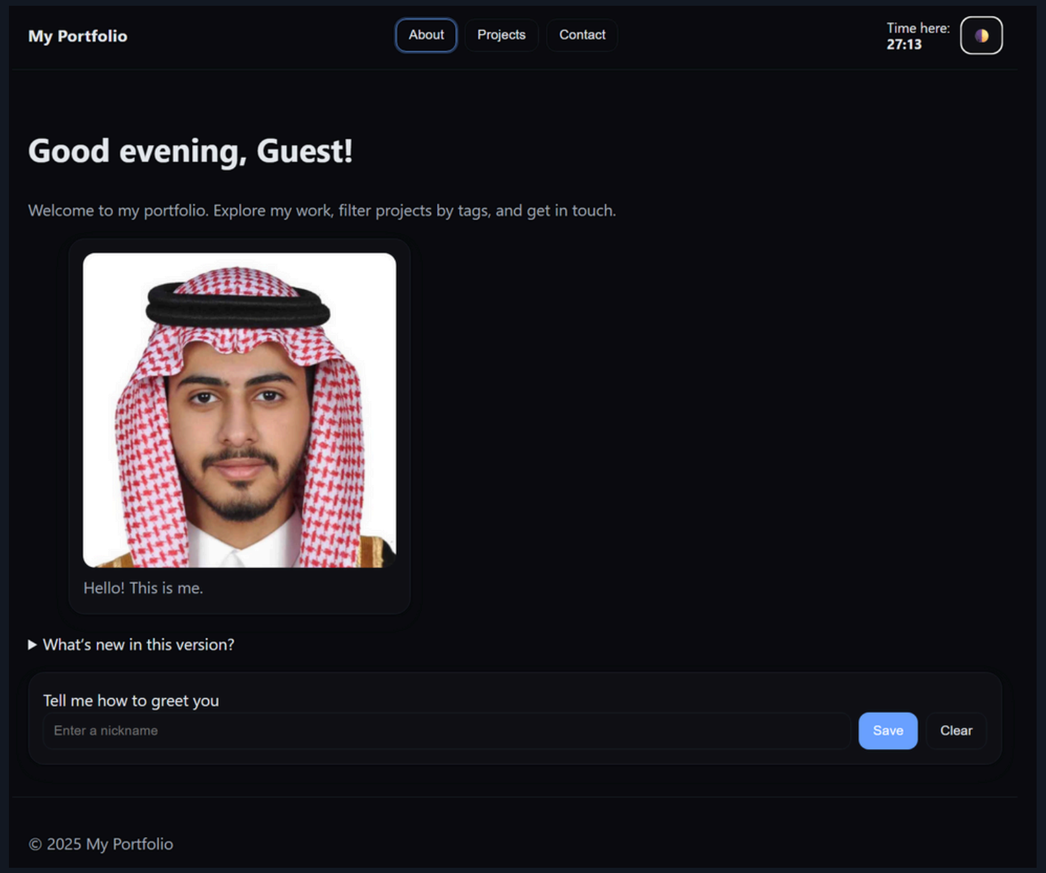
02 **CUSTOM NAME INPUT**

User's name saved in local storage.

03 **LIVE SESSION TIMER**

Displays time spent on the website.

Theme System



01 **DARK/LIGHT MODE TOGGLE**

Users can switch between themes easily.

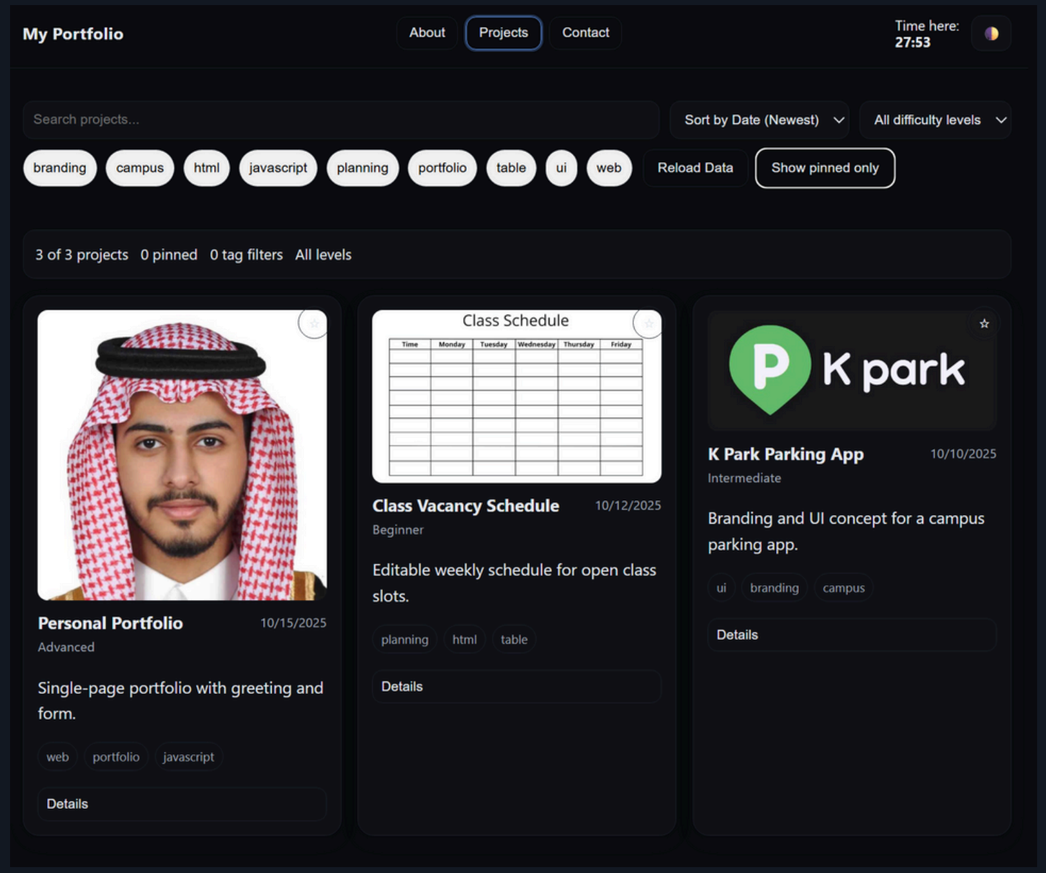
02 **SAVED COLOR PREFERENCES**

Color choices persist across user sessions.

03 **SMOOTH TRANSITIONS**

CSS variables create seamless theme changes.

Project Gallery Features



01 **DISPLAY OF PROJECT CARDS**

Showcase individual projects with images

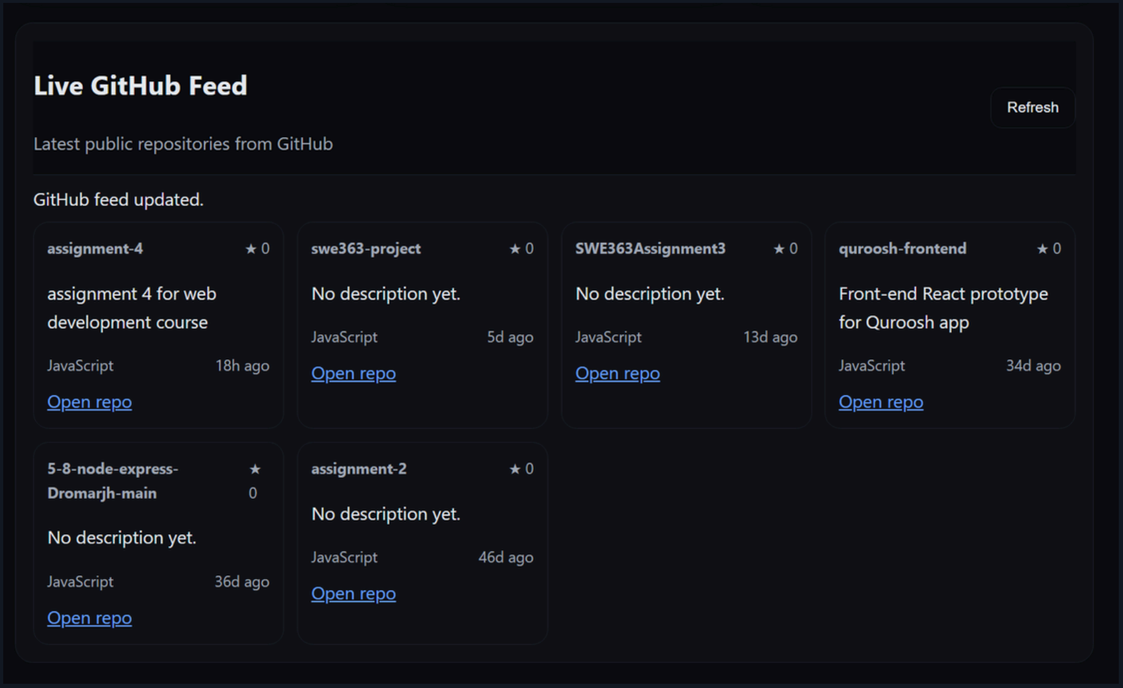
02 **SEARCH BAR FUNCTIONALITY**

Allow users to filter projects easily

03 **TAG CHIPS FOR CATEGORIES**

Enable quick filtering by project type

GitHub Integration Features



01 **LIVE REPOSITORY FEED**

Displays latest repositories from GitHub API

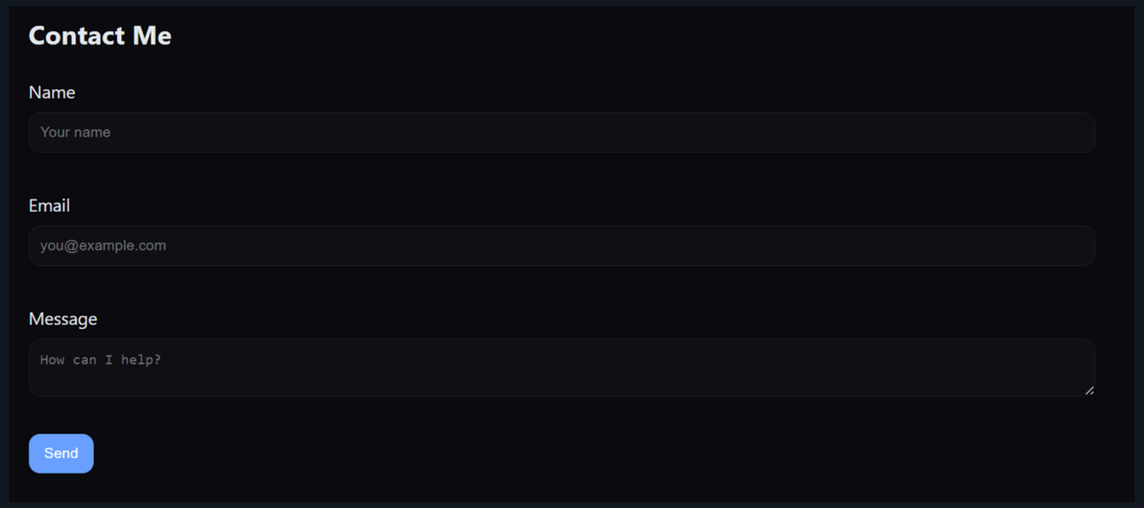
02 **LAZY LOADING**

Triggers on scroll for user efficiency

03 **REFRESH BUTTON**

Allows manual update of displayed repositories

Contact Form Features



01 **REAL-TIME VALIDATION**

Instant feedback for user inputs.

02 **FORMSPREE INTEGRATION**

Efficient email sending for inquiries.

03 **NOTIFICATIONS**

Alerts for success or errors.

Accessibility Features

01 **SEMANTIC HTML STRUCTURE**

Ensures content is well-organized and meaningful

02 **KEYBOARD NAVIGATION SUPPORT**

Allows users to navigate without a mouse

03 **SCREEN READER FRIENDLY**

Enhances usability for visually impaired users

Performance Optimizations

01 **LAZY LOADING**

Reduces initial load times significantly.

02 **CSS PRELOADING**

Enhances rendering speed for critical styles.

03 **OPTIMIZED RENDERING**

Improves efficiency of off-screen content.

AI Development Tools

01 **GITHUB COPILOT**

Provides intelligent code suggestions in real-time

02 **CHATGPT AND CLAUDE**

Used for brainstorming project features effectively

03 **CODE REVIEW PROCESS**

Ensures quality by reviewing AI-generated code

Challenges and Solutions

01 **API RATE LIMITS**

Implemented lazy loading for efficiency

02 **COMPLEX FILTERS**

Unified functions for better management

03 **THEME TRANSITIONS**

Consistency maintained across all elements

Future Improvements

01 **SHAREABLE FILTER URLS**

Enable easy sharing of project filters

02 **PAGINATION FOR GALLERY**

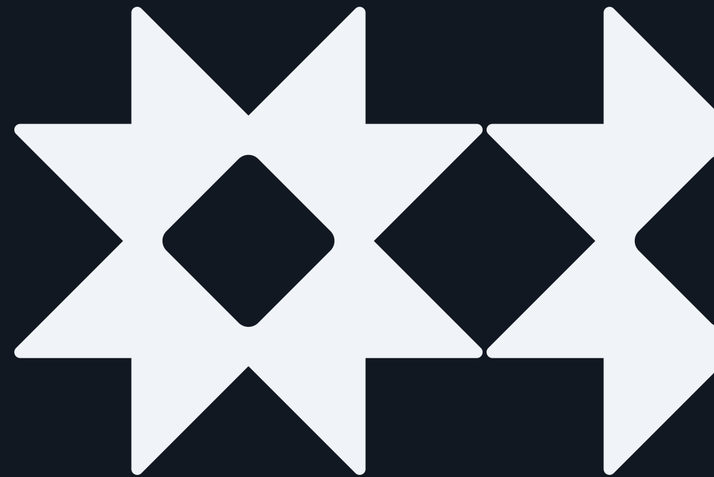
Manage large portfolios with multiple pages

03 **OFFLINE CACHING**

Enhance availability without internet connection

Thank you

https://a-alguraini.github.io/assignment-4/



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