ICS 496 Capstone Website

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Problem

Currently there is no website showcasing all of our ICS students' final capstone projects. Our capstone project website aims to solve this problem by creating a centralized platform where students can showcase their work and connect with potential employers more easily.

Requirements

- List of past and ongoing capstone projects
- List of posters and videos
- Sponsor and contact page
- List of sponsor and student testimonials
- Ability to search and filter posts by content
- Needs to be CMS based for easy admin

Implemented Solution

Our capstone project utilizes a custom WordPress theme and content types to showcase the impressive work of our peers. The custom content type helps better organize and display project details in a user-friendly way and allowed us to tailor the site to our needs, and provide visitors with a more engaging and interactive browsing experience. Our technical solution is scalable and can be useful to other students and sponsors looking to view past and current projects.
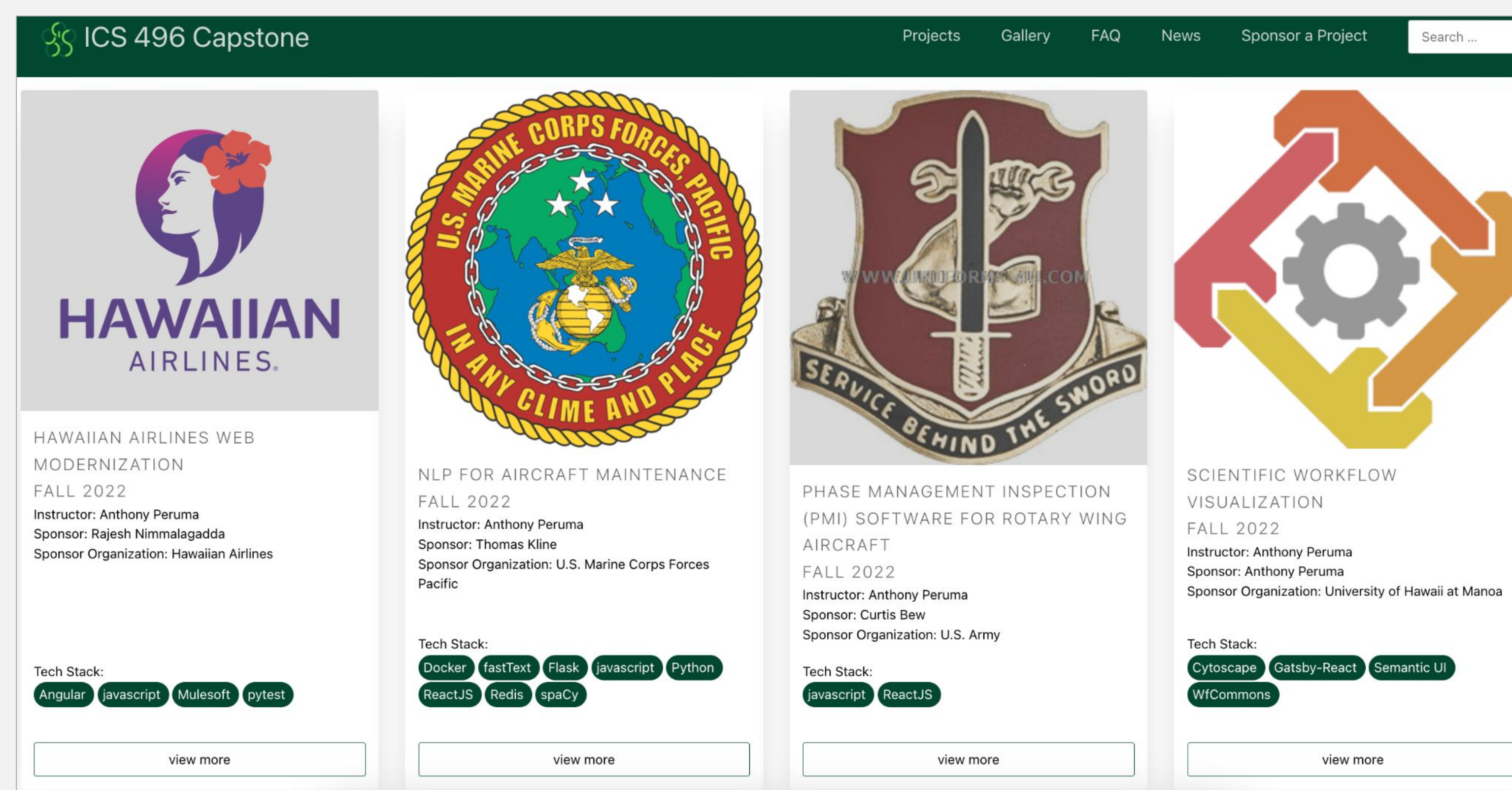
Project Management

- Scrum based development with weekly sprints and meetings with our sponsor
- Kanban board to visualize tasks for sprints

Content Types
Wordpress admin display of content types we created

Project Information
Content type information that provides data to displayed projects

Project Display Grid
This project page displays all past and present projects completed for ICS 496 Capstone or hackathons.

Tasks Accomplished

- Created and finished the following:
  - Sponsor a Project Page
  - FAQ Page
  - Home Page
  - Project/Singular Project Page
  - News/Singular News Page
  - Video and Poster Gallery
- Completely open-source
- Automated UI testing for pages
- Design information architecture

Tech Stack / Methodologies

- WordPress CMS
- PHP
- Figma
- HTML/CSS
- JavaScript
- Puppeteer
- Agile
- GitHub Kanban

Challenges

- Heavy R&D
  - Spent nearly a month learning WordPress and PHP to get things started
- Communication
  - Different schedules
- Time Management
  - Took a few weeks of non-stop work to get back on schedule to complete project

Learnings

- Working with a CMS programmatically
- Project Management
- Collaboration and communication with a small team
- Creating automated testing
- Implementing UI/UX designs using Figma