

## FINAL PROJECT PROPOSAL

*Anna Chapko*

My final project is a **Collaborative Code Editor Prototype with AI-Assisted Debugging** that simulates real-time code editing and provides intelligent feedback. It focuses on usability and interactivity to help beginners learn programming concepts.

The theme, “**Smart Coding Collaboration,**” uses a dark design with teal, purple, and lime green accents. Typography combines *JetBrains Mono* for code and *Inter* for UI text.

The site includes three pages:

- **Editor:** Single-user code editor with syntax highlighting and AI debugging tips.
- **Projects:** Dashboard to view and delete mock projects.
- **Help & Tutorials:** Interactive beginner tutorials.

Layouts use **Flexbox** and **Grid**. Animations include a CSS loading spinner and a p5.js sorting visualization.

JavaScript handles live highlighting, AI feedback, a jQuery dark mode toggle, and project deletion modals. Content loads dynamically from JSON files. Open-source code is customized over 60%.

Semantic HTML5 and external CSS ensure clean structure. My name and citations appear in footers.

This project balances ambition and feasibility, showcasing my skills in interactive web development and design.