



# Authored: A University-Focused Browser IDE

Supporting Academic Integrity in Programming Courses  
By: Liam Brown  
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# Team Members & Advisor



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Industry Advisor

# Project Abstract



## Web-Based University IDE

Authored is a web-based programming IDE for university courses, allowing instructors to create coding assignments and students to complete and submit them directly in the browser.



## Integrity & Accessibility

The platform includes lightweight activity logging to support academic integrity, along with a simple and accessible interface for both instructors and students.



## Streamlined Course Workflow

Authored aims to reduce setup overhead, streamline grading, and provide transparency. It combines a clean frontend with a secure backend for a complete course workflow.

# User Stories & System Design



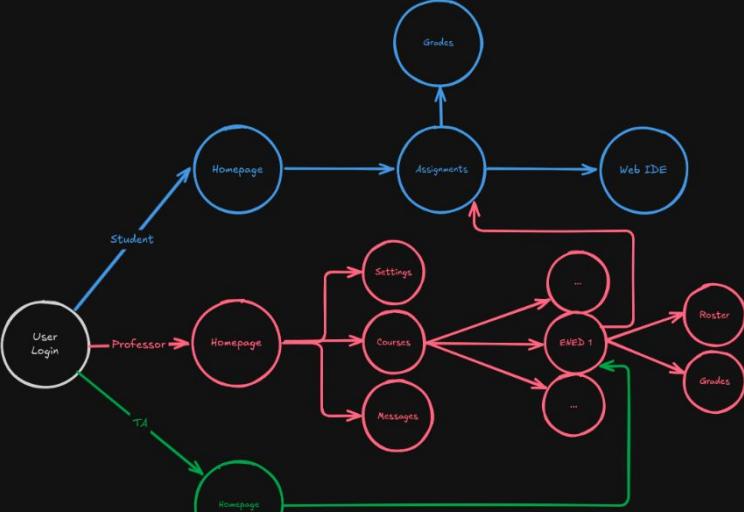
As a student, I want to write and run code in a browser so I don't have to install extra tools.



As an instructor, I want to create programming assignments and view submissions in one place.



As an instructor, I want to see basic logs of student activity to help verify academic integrity.



# Project Constraints



## ETHICAL CONSIDERATIONS

Must avoid overly invasive logging; transparency is important.



## LEGAL COMPLIANCE (FERPA)

Must handle student data in ways consistent with FERPA.



POLICE



SUPPORT

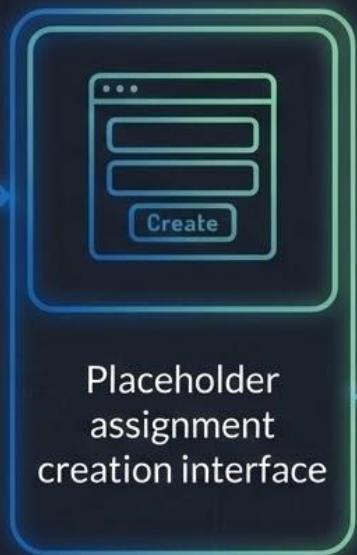
## SUPPORTIVE APPROACH

Intended to support (not police) students.

# Current Project Progress



# Expected Fall Deliverables



# Division of Work

**Liam Brown** — 100% of development and planning



Frontend editor  
+ UI design

Backend design  
and APIs

Logging and  
submission  
workflow

Testing +  
documentation

Final demo  
preparation

# Planned Demo for Expo

