

CS4530 Final Project: The Coding Crew

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<https://cs4530-s25-504.onrender.com/>

Overall Description

The Coding Crew is a site that allows people to ask questions, get answers and collaborate on issues in the computer science realm. Our goal was to enhance the experience by providing extra chat features, which allowed for direct question sharing, group chats, polls and adding/removing/leaving chats. Users were also able to play a daily wordle and aim to get the desired word in as little time as possible, competing with all other users to be as high up on the global leader board as possible. Lastly, users can now send and run blocks of code, in a chat with others, allowing for seamless code collaboration.

Technology Stack

We implemented the question sharing and code blocks as separate items that a chat can have, and at the time of render, we would reconstruct the chats messages/code blocks/questions by the time they were sent/shared and display them in that way. Writing code and executing was made possible by using the Sandpack package to write the code and render the syntax, as well as calling out to Piston API, which allowed us to run the code we gave it. We implemented our own version of wordle by extending the existing game type, and utilizing sockets, custom CSS, and hooks to build the full game.

Future Work

The application is far from complete and there are many areas open for improvement and innovation. The front end can use a redesign to improve upon the gray and blue plain theme. Having a global leader board for wordle, opens the door for even more creative games for users to compete in everyday. Saving files or allowing users to work on the same code editor would allow for more seamless collaboration on the site. To encourage users to ask more questions or find answers relevant to their projects, communities can be introduced, so questions are more focused on certain areas that users are involved in.

user5 shared a python code block4/8/2025, 12:54:11 PM

```
1 num1 = 2
2 num2 = 3
3
4 def add(n1, n2):
5     return n1 + n2
6
7 total = add(num1, num2)
8 print(total)
```

Run

Output:

5

Wordle of the Day

| | | | | |
|---|---|---|---|---|
| G | R | A | I | N |
| S | P | I | N | E |
| F | I | L | T | H |
| T | H | I | C | K |
| | | | | |
| | | | | |

Congratulations! You guessed the word in 4 tries! Time taken: 49 seconds.

Start a Chat

Add Participants

Remove Participants

Leave Chat

Create Poll

Change Chat Name