

# CS4530 Final Project: “NU Sync”

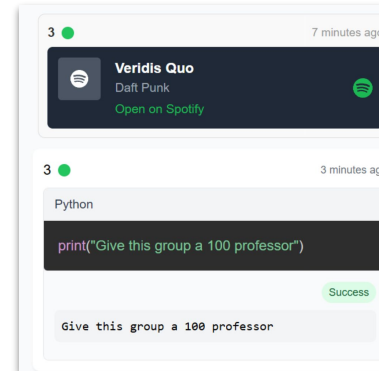
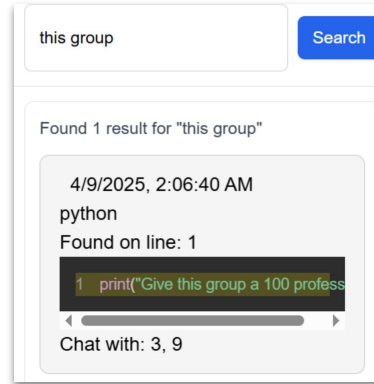
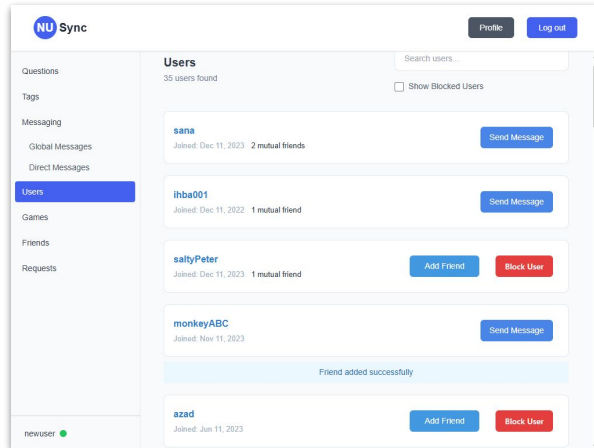
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## Our Features: Friends, Code Snippets, Spotify & More!

The original release of StackUnderflow had limited features available to users. We decided to add a wide range of features to make this site modern in its capabilities.

Every major platform offers some collaborative and immersive features, connections, and UI. Whether its Instagram, Discord, StackOverflow, or Tiktok, users want to be connected to each other and be able to share other aspects of themselves while staying on the platform.

That belief is where we launched our features from. We sought to add great features across the entire site to improve quality of life while aligning with the platform's forum-based identity.



## Our Technology Stack & Design

Users have a fully implemented friend system, complete with private and public profiles, friend-only messaging, friend request notifications, friend management system, and blocking.

Users can also enable a Spotify connection to add a personal touch to their profile and messages. Users can display their currently playing song and view other connected profiles' music compatibility. In messaging, users can send friends their playlists, songs, current song, and recommended songs! They also can play guess the song, an Akinator-based game.

The notification system is handled by a user's status, which can be set via a quiet hours scheduler, or manually.

Lost a chat and can't find it? Use the messaging search bar to find any chat with the searched keyword! Want to send and edit code snippets to your friends for a late-night debugging session? You can do it here!

## Future Work

In the future, we'd like to build on our foundation with enhancements that boost collaboration and personalization. One feature we could add as an extension is collaborative code snippet editing, where multiple users can propose changes and comments on shared snippets, making technical conversations more interactive.

We'd also plan to introduce user badges based on social engagement, such as milestones for number of friends, to further encourage connection and discovery. While true group listening isn't possible with Spotify's API, we'd explore collaborative playlist sessions, where friends can queue songs together and react in real time. These additions would aim to deepen user interaction while keeping the experience fun and meaningful.