

CS4530 Final Project: GamblingOverflow

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Added Features

In the original FakeStackOverflow, user interaction was limited to standard Q&A mechanics. While users earned upvotes for contributing, there was no engaging way to utilize these upvotes and no social layer to connect users beyond technical discussions.

Technology Stack & Design

GamblingOverflow was built with MongoDB, Express, React, Node.js and deployed with Render. We replaced the old game subsystem with a new Service/Controller architecture. The SlotGameInstance interface isolates gambling logic (RNG, payouts, state) from the core platform, so the addition of casino features only adds onto the main Q&A functionality.

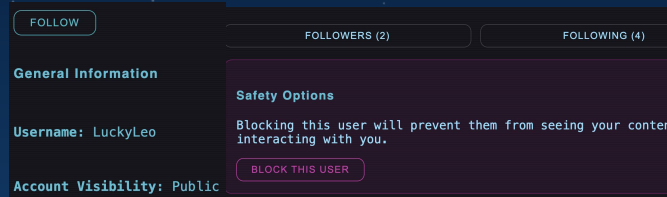
We used sockets to deliver instant feedback for notifications. When a user hits a jackpot or receives a follow request, or gets another notification, the server pushes an event to the client immediately. Notification Toast was also used to sync with the backend data to show pop-up notifications.

GamblingOverflow is an expansion that introduces high-stakes gamification and a real-time social network. The core of our project is a Casino Game that allows users to wager their Karma (upvotes) on a fully animated, 3-reel slot machine. To support this community, we added privacy controls, a follow/block system, and real-time notification system. Now, users aren't just posting answers; they are building Karma wealth, managing their network, and competing on a live multiplayer casino floor.

Future Work

While our current release features a fully functional slot machine, the architecture was designed for extensibility. Our platform can be extended to support other multiplayer casino games like Roulette or Blackjack so users can compete against each other rather than the house.

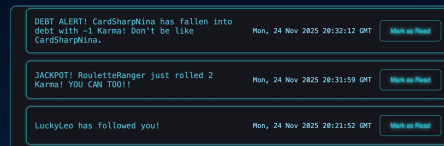
Users can follow, unfollow, send a request to private users, or block other users and view their following/follower list.



Demo & Source

Our demo site is available at <https://cs4530-f25-106.onrender.com> and our code at <https://github.com/neu-cs4530/fall25-project-fall25-project-group-106>.

The notification system alerts for jackpots, debts, follows, and post interactions, which are pushed instantly to the notification list, ensuring users never miss critical updates.



A 3-reel slot machine, which updates in real-time and handles spins and payouts.

