
Discord Verification + Roles System

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Discord's Importance as a Social Medium

During the pandemic, social distancing meant people used Discord more often:

Expanded outside of gaming circles to include topics like education, art, and much more

“Discord Student Hubs” were introduced to allow students to meet classmates

Generated \$130B revenue despite having unconventional, ad-free business model

Problem Statement

With 6.7M weekly active servers and 150M monthly active users, it has its troubles

In 2020, Discord banned over 252,768 accounts and 700 servers for negative content.

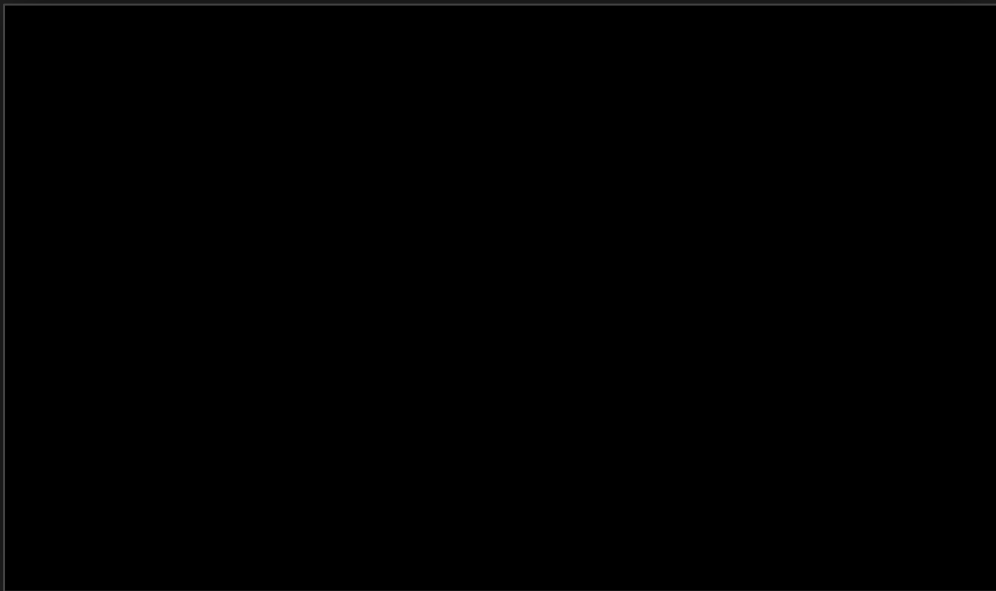
Role reaction and captcha verification systems don't guarantee good members

No streamlined Discord pipeline to verify whether users belong to a club/school/organization

Manually verifying hundreds of students is tedious and could make users impatient

Ideal Solution (Part 1)

Email Verification System



Only verifies student and alumni emails (e.g. scu.edu)

Uses regular expressions to filter bad input

Emails code to input in designated channel with 5 minute time limit

Member is verified with a "Student" role

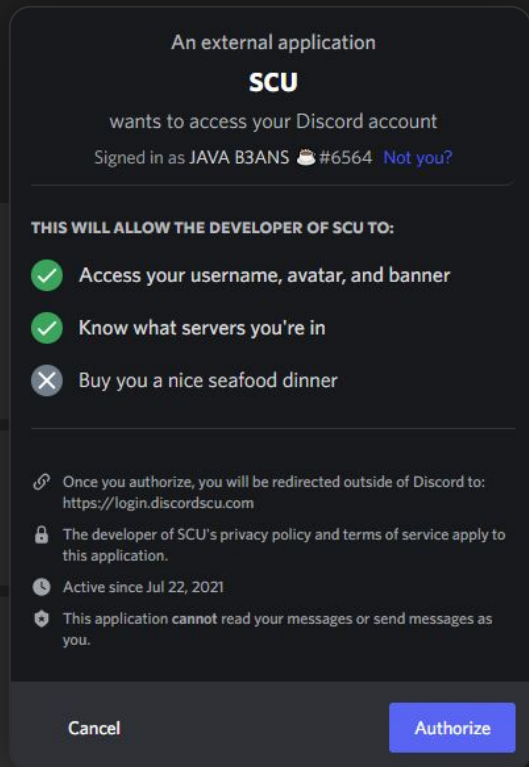
Ideal Solution (Part 1)

Discord OAuth Roles System

Allows user to share information between services without exposing password

Graph over tree structure for role selection

Falls below Discord API rate limit



Our Tech Stack



Utilizes Discord's v6 HTTPS/REST API

Back-end REST API written in TypeScript, using Deno server and oak

Front-end client with HTML/CSS/JS

Bot and dashboard hosted with Node JS

Crafting the User Interface

UI / UX	Digital Experience
UI that is self explanatory	A themable structure

Member Roles



**Santa Clara University
Discord Network**



Sign In With Discord

To identify you on our Discord server, this website interface uses Discord's API and OAuth2 authentication services. We do not have access to your login information and do not keep any user data on our servers; instead, you will be taken to the official Discord login page to allow this app to grant you Discord roles.

[Discord icons created by Freepik - Flaticon](#)

Member Roles

501A#5787



Santa Clara University
Discord Network

Submit Changes

Undo Changes

Current Roles

moderator

wde x

freshman x

student

he/him x

unity x

international x

residential x

Assignable Roles

▼ Member Roles

alumni +

junior +

senior +

sophomore +

Our product UI/UX is built using vanilla CSS

High levels of customization


Zero dependencies makes it light & performant

Using CSS variables to store style values

```
:root{  
  /* Colors are from light to dark */  
  --accentColor0:#cb1f21;  
  --accentColor1:#b30738;  
  --accentColor2:#862633;  
  
  --system0:rgb(50, 50, 50);  
  --system1:rgb(40, 40, 40);  
  --system2:rgb(35, 35, 35);  
  --system3:rgb(30, 30, 30);  
  
  --baseColor0:rgb(100, 100, 100);  
  --baseColor1:rgb(70, 70, 70);  
  
  /* Text Properties*/  
  --textColor:#DDD;  
  --buttonTextColor0:#fff;  
  --buttonTextColor1:#fff;  
  --fontFamily:'Montserrat', sans-serif;  
  --headingFontFamily:var(--fontFamily);  
}
```

Light Mode Out of the Box

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Perceived Impact in the Numbers

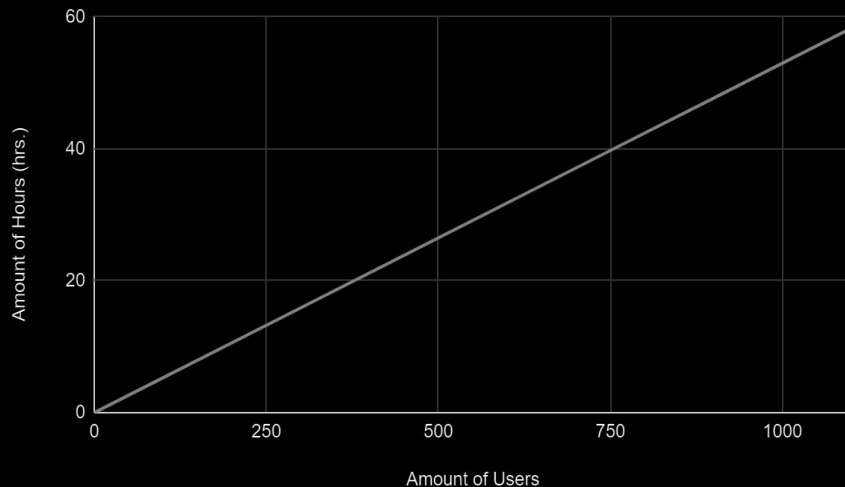
$$(3.18 \text{ minutes} * \text{"n" amount of users}) / 60 \text{ minutes}$$

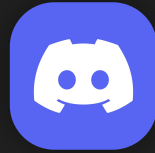
Verification averages 3.18 minutes

Dashboard supports max roles in server

Both scale better with more users

Hours Saved With Discord Roles System for "X" Users





Thanks For Listening!