

What is Gruuper?

Gruuper is an efficient and seamless platform professors can use to create and manage class groups. It uses personalized student profiles and Machine Learning to create the best groupings possible.

Deployment and Integration

Gruuper is a dynamic React.js web application empowered by a robust Firebase backend, ensuring seamless data management and real-time updates. Hosted on Vercel, it guarantees high availability and rapid deployment.



CJ Plantemoli • Brady Amundson • Samuel Richard

CREATE A CLASS

...generating a unique classroom key.

Professors simply create a class...



Classroom: w7sjt

Class Code

JOIN A CLASS

Then, students can join the class.

Group 1

John Wayne
 Peter Piper
 George Washington

Group 2

Ben Benson
 Samuel Student
 Bob Joe

Group 3

Plato Aristotle
 Brady Amundson

Samuel Student

Drop here to create a new group

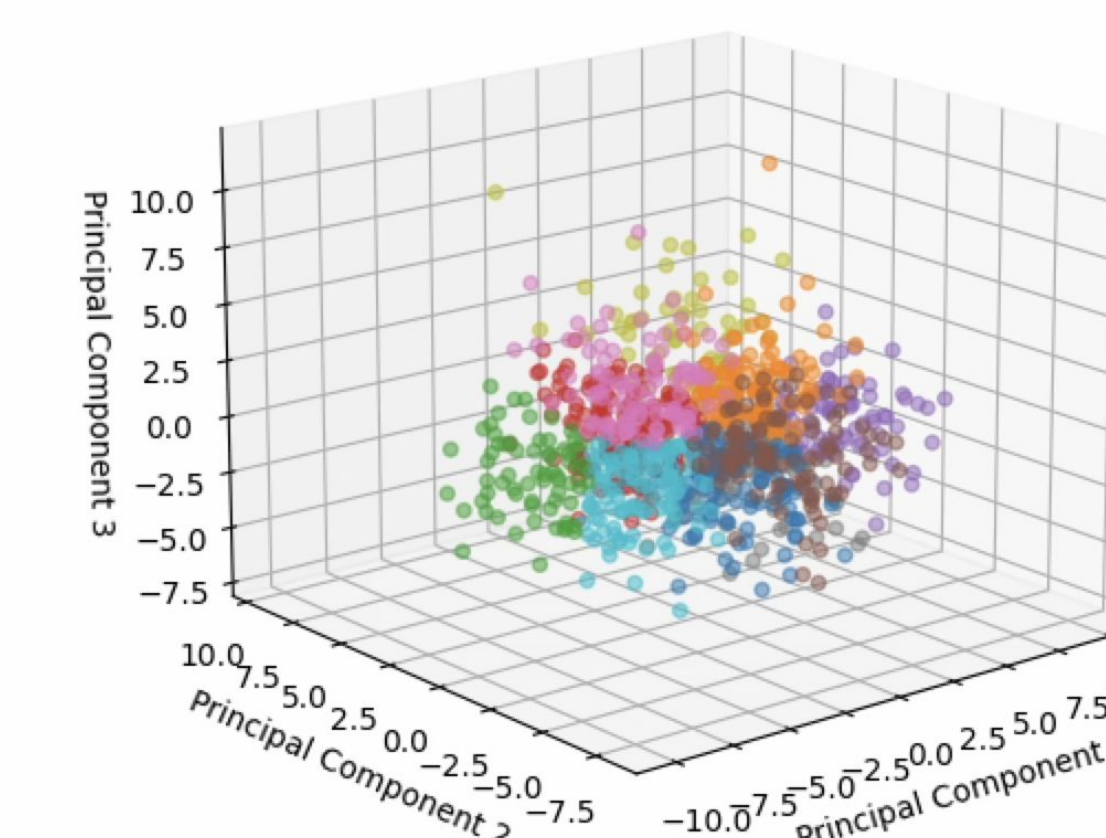
The professor can then create and manage the homework groups manually...



...OR use Maatcher, our ML powered match making system.

Maatcher: Group Formation

Maatcher, our machine learning engine, analyzes user personality profiles to create cohesive groups. It transforms student personality profiles into numerical vectors and utilizes KMeans clustering for efficient grouping based on similar traits. This ensures productive collaborations among users



with compatible characteristics. Hosted on AWS, Maatcher is deployed using Flask and Python.

Tech Stack

