Even though teamwork is central to software engineering education, forming groups is difficult!

Ready for classroom adoption, GatorGrouper uses data to automatically form effective teams

GatorGrouper forms teams with:
- Random
- Round-Robin
- Kernighan-Lin
- Genetic Algorithm

Methods are optimized, ensuring that the tool scales to large input sizes.

We adopted these tools and processes:
- Pytest for automated testing
- Pyenv for language management
- Pipenv for environment handling
- Travis for integration and deployment
- GitHub flow for software engineering

You can use GatorGrouper these ways:
- Command-line with local storage
- Django-based web application
- Leverage Amazon Elastic Beanstalk

Considering both industry & academia, use the improved GatorGrouper to empirically study team effectiveness.

Created with Python, GatorGrouper supports team formation while balancing knowledge, skills, and conflicts.

Interested in supporting the development of GatorGrouper? Please raise an issue on the tracker or create a pull request to add a new feature or bug fix.

See GatorEducator/GatorGrader for a related tool that automatically checks the work of writers and programmers.

Review GatorEducator/GatorGrouper for a full list of project contributors.