YACS Summer 2020 Project Proposal

Objectives

Distribution As an open source project, it is key that the code can be easily distributed and tested outside of the RCOS team. For this reason, making deployment and local development easy across multiple environments is key to the success of YACS. Additionally, this would allow us to be pushed to different schools. This semester, the goal is to expand on flexibility of data input.

Quality As an open source project, it is key that others starting the codebase can make sure that the existing code works and new changes do not break previous functionality. This semester, enabling and increasing the amount of test coverage are the overarching goals.

Usability Given this is a project used by both administration and students, it is important that we clearly document and target user-events and user-stories without ambiguity when building new features. This semester, expanding and enhancing features to facilitate student and administration usage.

Key Results

Distribution

- Allow input of graduation requirements through admin interface
- Additional configurability through admin interface

Quality

- Achieve 40% test coverage of Python codebase
- Add integration testing

Usability

- Enhance search functionality
- Incorporate graduation requirements into course scheduling

Culture

To ensure the future viability of YACS as a project in RCOS is essential we value:

Learning

> Iteratively share learnings and decisions during Code Reviews rather than bulk Documentation

Simplicity

> Code and architecture is meant to be first understood by humans, and then by machines

Efforts

See issues on GitHub for efforts https://github.com/YACS-RCOS/yacs/issues

Milestones

June 19 Everyone on team has made a contribution to the YACS repository
July 10 Basic iteration of new features complete
Aug 7 Final iteration of new features
Aug 14 Key results complete or near completion
Aug 22 No more bugs

Team

Team: - Ike Lyons - Tingyi Tan - Aidan Lane - Danyi Gao - Joshua Wu