

## Git Auto-creation

This is intended to be a simple process that does heavy lifting and stays out of the way.

For each course that is enabled for automation, by default:

- A dedicated Namespace is created in Gitlab
- Registrar data (rosters) are processed nightly, and data is refreshed every 1 hour
- Each student is given an individual Project (git repository)
- Nominated Graders get appropriate access roles to Projects and the enclosing namespace
- Subsequent customization is ignored or respected by the automation
- The tool is flexible and can be modified to suite different situations.

## Accessing Repositories

The Gitlab server emails each individual at the time they are granted access to a resource. If you have not received an email, please write [Techstaff](#) and let us know.

Hints:

- The current server is named [Proj](#)
- The entire namespace path is identical to the Course identifier, e.g.,  
<https://proj.cs.uchicago.edu/mpcs-53001-aut-20>

## Controlling The Rosters

The overall automation tool is controlled by Techstaff. However, online customization of repository and project details are available to instructors and other course staff.

### Internal Repo-based Configuration

Before establishing any repositories, the automations server can be optionally configured to read configuration that is published in **your own** secure Gitlab repository. Note that the automations can only read from certain known Gitlab servers.

Every hour, the automations bot will checkout the head of your `main` or other nominated branch and scan a directory for YAML files containing course and enrollment data.

Because of Roster Config Merging, you typically only need to `/augment/` Registrar data.

It is also possible to specify partial information, or split data across multiple files. All configuration files are merged with others having the same identifier.

```
CMSC-3456-aut-2020:  
  display_name: Optimal Data Structures 2020
```

```
memberships:
  student:
    - tdobes
  grader:
    - chudler
    - ctopper
```

An example to create course without any associated Registrar data is the same, but includes more memberships

```
# sample config to be checked into a file rosters.d/sample.yaml
#
my-globally-unique-id-1234-aut-2020:
  display_name: my-special Custom Course Taking Place in 2020
  memberships:
    instructor:
      - rdb
    student:
      - kauffman
      - tdobes
    ta:
      - chudler
    grader:
      - ctopper
```

## Configuration Merging

Techstaff will augment any configuration you provide with roster data from the University Registrar. The union of memberships is considered, and scalar values are overridden by your values.

[More Roster Configuration Examples](#)

From:  
<https://howto.cs.uchicago.edu/> - **How do I?**

Permanent link:  
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