GitHub Takedown Script

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Background

- GitHub is a popular space for version control and project showcase.
- Students upload class materials and homework solutions.
- Instructors spend time and efforts to track them and take them down.
- Students get in trouble with SJA.
Task

- Find target repositories
- Send emails to repo owners
- Track their status
Design

- Search repos: GitHub APIs
- Send emails: smtp clients
- Track repos: yaml/json files
Both package and software are provided.
Package Architecture (cont.)
Optimization

- Cache network response
  - reduce requests to individual information
- enable configuration files
  - reduce command line length

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- Multiple threads
Live Demo

PyPi, GitLab, GitHub
Limitation

● Heavily rely on GitHub APIs
  ○ rate limit
  ○ search restrictions
● Not too much options for emails
● Hard to do e2e tests
  ○ controllers are all tested
Questions, Comments