



# GitHub Takedown Script

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# Background

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



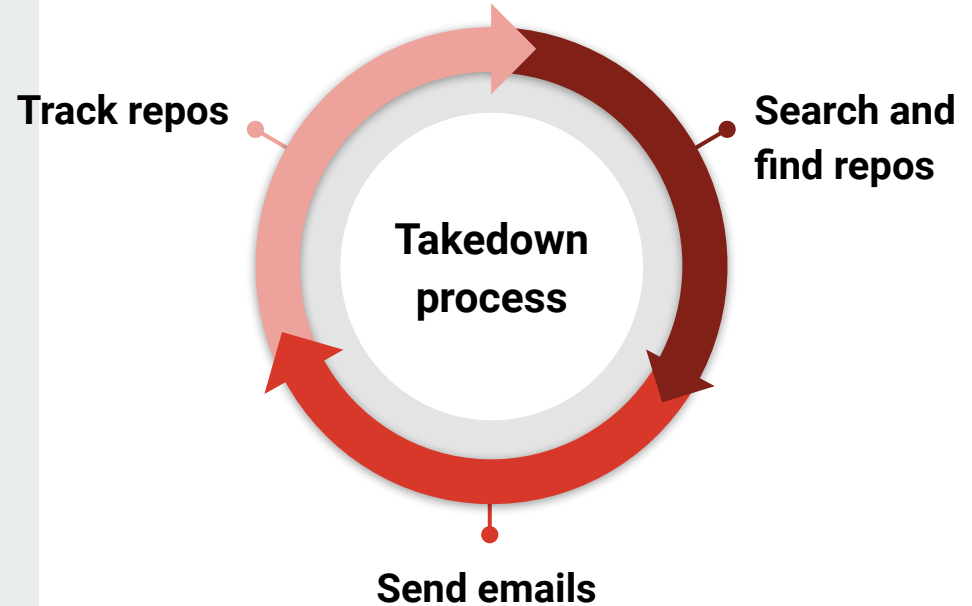
# Task

- 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





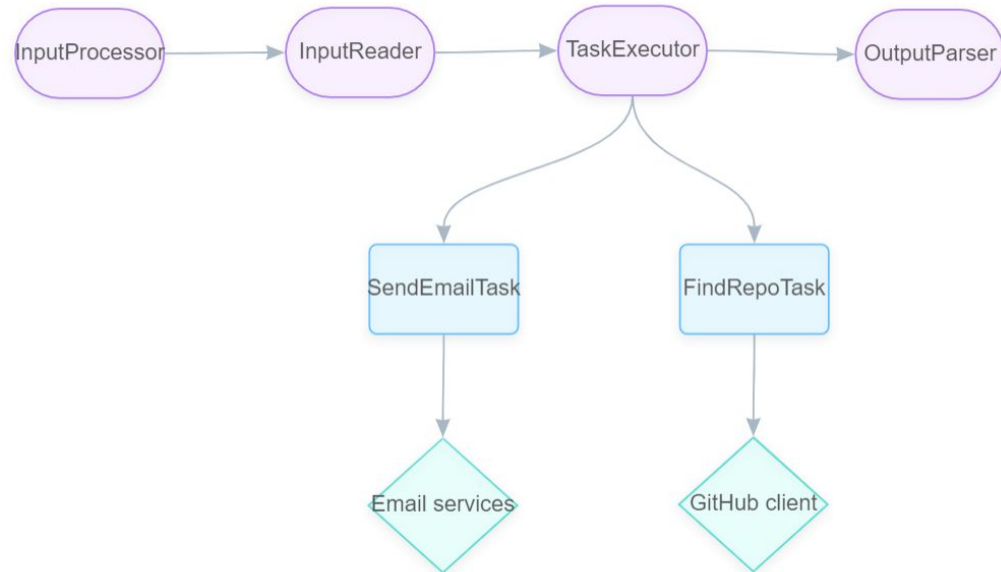
# Package Architecture

Both package and software are provided.

takedown

- client
  - GitHub
- controller
  - InputProcessor
  - InputReader
  - OutputParser
  - TaskExecutor
- task
  - FindRepoTask
  - SendEmailTask

# Package Architecture (cont.)





# Optimization

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



- 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**