

CS5500 Final Presentation



Team members:

Balaraj Venkataramanappa

Meng Tao

Nikitha Nagaraj

Ravi Krishnan Iyer

System Functionality

Core Functionality:

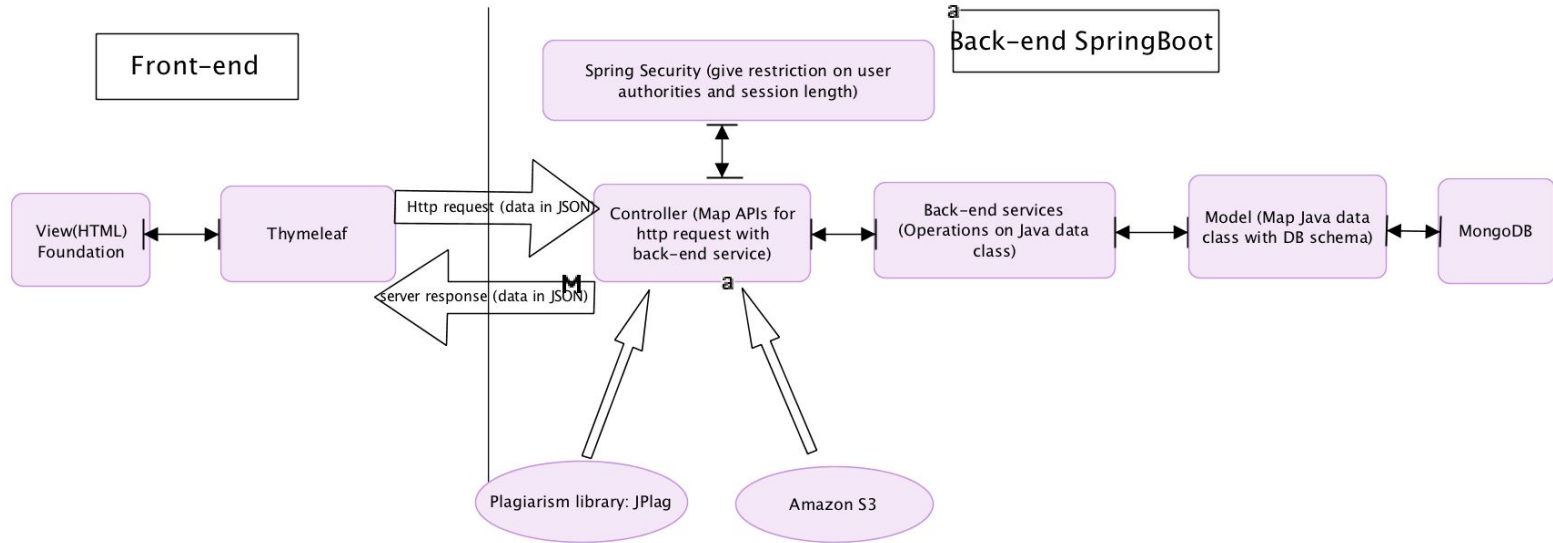
- Login/logout for student, faculty and admin.
- CRUD operations for assignment, course.
- Admin can change role or delete faculty or student.
- Faculty can decide a plagiarism threshold based on which the reports will be highlighted.
- Faculty can view comparison reports between students. This report displays the percentage of similarities and highlight the lines of similar codes between them.
- The plagiarism comparison happens incrementally with each student submission.
- Student can upload a zip folder as a submission to an assignment.
- Students can submit assignments multiple times.
- When plagiarism is detected, the system sends an email to the faculty incharge.

System Functionality

Stretch Functionality:

- System should email faculty with link to report.
- Faculty can email students with link to report.
- Faculty can choose the semesters and sections with which the assignments will be compared.
- The student can submit their assignments using their GitHub link as well.
- Along with comparing python, the system can test even c/c++ , java, scheme.

Technology Stack:



Environment and Development Process

- System set up on git
- Smart commits being used
 - JIRA-34 #comment corrected indent issue
- Maven project
- Jenkins build triggered by pull request
- SonarQube runs test cases to confirm code quality
- Deployed on amazon AWS

Challenges

- Deadlines
- Changing Expectations
- Deployment
- Understanding Jplag

Future Development

- A more sophisticated algorithm
- Sign Up using Google, Facebook or LinkedIn
- Usage by multiple universities
- Implementation of auto scaling as the website grows
- Adding grades to the system

Thank You!