

Project Report

GitHub repository monitoring tool.

(<https://github.com/abhandal/SOEN341-G4>)

Team:

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|---------------------------|------------|
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Scope:

Description of the project:

The GitHub repository monitoring tool will help the teaching assistants to monitor and grade each group and students; by analyzing a repository and showing useful information in an easy-to-use and easy-to-understand way. In summary, this will show the contributions of each student and the progress of the project.

Features:

- Login with Github account
- Get an information from available repositories
- Show the information in a convenient way (text, charts ...):
 - o Contributors (students)
 - a number of events: overall and per student
 - a percentage of events per student
 - o Events:
 - Commits
 - Pull requests
 - Issues
 - Comments
- Write a feedback from TA that will be stored in teams' repositories

User Stories

Core functions

1. Log In
As a user, I want to log in using my GitHub account.
2. Adding repositories
As a user, I want be able to add repositories on my page, so the data from it can be displayed.
3. Selecting Repository

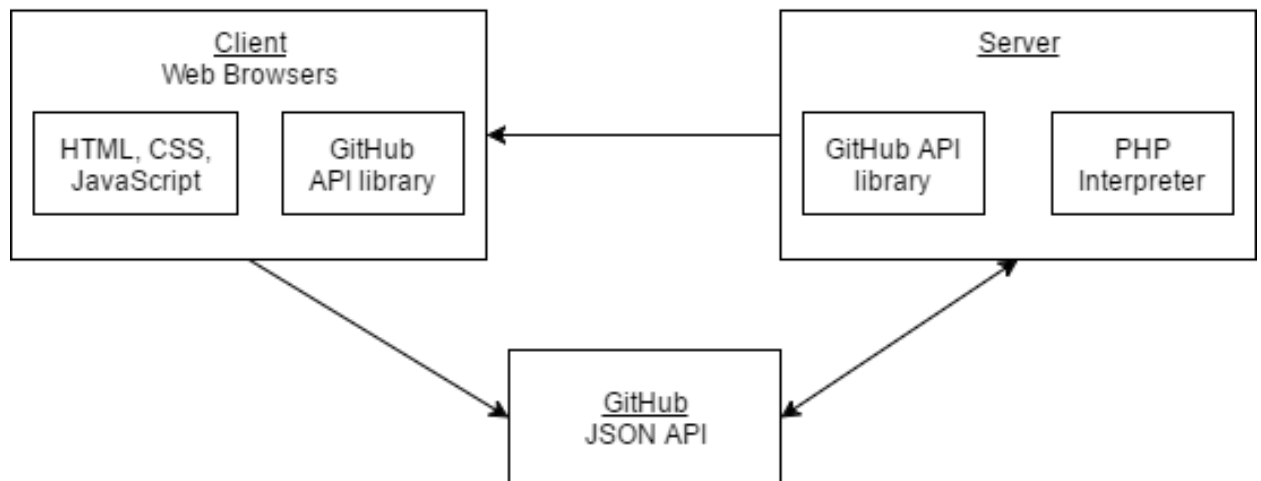
- As a user, I want to select a repository from a GitHub account.
4. Generation Information
As a user, I would like to have a general information page about a repository.
 5. Comments
As a user, I want to add comments to each repository.
 6. Sorting the information of the user interface
As a user, I would like to sort the charts and the tables from the least commits to the most.
 7. Overall Report
As a user, I would like to have an overall report of all the collaborators' activities.
 8. Weekly Report
As a user, I would like to see a weekly report of all the collaborators' activities.
 9. Function of Activity Percentage
As a user, I would like to see the percentage of each collaborator's activity.
 10. Events Separation
As a user, I would like to see a separation of events to commits, issues, and comments.
 11. Burndown Chart
As a user, I would like to have access to the burndown chart of the team.
 12. Tabs
As a user, I want to see different tabs in order to have access to general information, reports, burndown charts, and comments.
 13. Implement a graphing tool
As a user, I would like to see the breakdown of events into tables and charts.
 14. Report Type
As a user, I want to choose how the required information will be displayed. In table forms or charts, or both combined.
 15. Data Selection
As a user, I want to be able to select the data shown to me.

Extra functions

16. Periodical Email Summaries
As a user, I want the system to send me an email with an overall summary report on activities in repositories so that I can spend less time to get an overall information on a class process.
17. Time Range
As a user, I want to select the time range for the activities for the team and each person: I can select a starting date and an ending date.
18. Separation by sprints
As a user, I want to specify sprints as a time range to be able group information in charts by sprints.
19. Grading space
As a user, I would like to publish grades for each sprint so that the team could see it.
20. Repository Description
As a user, I want to be able create my own description to each repository in my list, that I could recognize repository in my own association.
21. Managing repositories
As a user, I should be able to manage repositories on my page, that I could edit list of repositories.

Architecture blocks

Block Diagram GitHub Monitor



Tools and technologies, used:

Server side:

- PHP Interpreter
- PHP GitHub API 2.0
- Amazon Web Services (AWS)

Client side:

- HTML, CSS
- JavaScript
- Chart.js
- JQuery.js
- GitHub.bundle.min.js

Automation testing: Travis CI.

Challenges

Feedback

What should be in the doc (delete before submission)

TA meeting:

Final report: description, US, Architectural blocks and some feedback.

Document report for Sprint 5
on description
user stories
challenges
tools used
put together your final work

Course outline:
complete report integrating all sprints of the project,
demonstration of software, and quality of application