Project Report

GitHub repository monitoring tool.

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

Team:

1.	Charles-Philippe Labbé	(40002442)
	Aman Bhandal	(27390858)
3.	Dmitry Kryukov	(40029645)
4.	Ksenia Popova	(40029623)
5.	Nikita Baranov	(40012854)
6.	Batoul Yehia	(40010912)
7.	Raymart De Guzman	(40010443)
8.	Andy Pham	(40006071)

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 ...):
- Contributors (students)
 - o a number of events: overall and per student
 - o a percentage of events per student
- Events:
 - o Commits
 - Pull requests
 - $\circ \quad \textbf{Issues}$
 - o 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. <u>Selecting Repository</u>

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. <u>Separation by sprints</u>

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

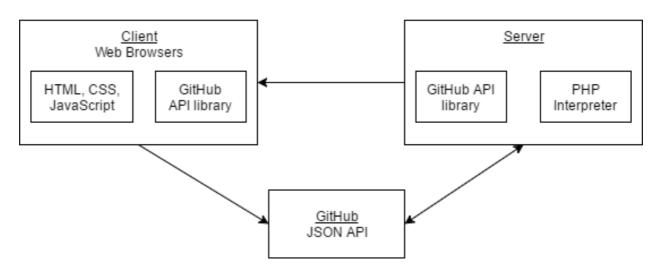
As a user, I want to be able create my own description to each repository in my list, that I could recognize repository in my own association.

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

Client side:

- HTML, CSS
- JavaScript
- Chart.js
- JQuerry.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