Project Report

GitHub repository monitoring tool

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

# Team:

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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 ... ):
  + Contributors (students)
    - a number of events: overall and per student
    - a percentage of events per student
  + 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.

1. Adding repositories

As a user, I want be able to add repositories on my page, so the data from it can be displayed.

1. Selecting Repository

As a user, I want to select a repository from a GitHub account.

1. Generation Information

As a user, I would like to have a general information page about a repository.

1. Comments

As a user, I want to add comments to each repository.

1. 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.

1. Overall Report

As a user, I would like to have an overall report of all the collaborators' activities.

1. Weekly Report

As a user, I would like to see a weekly report of all the collaborators' activities.

1. Function of Activity PercentageAs a user, I would like to see the percentage of each collaborator's activity.
2. Events SeparationAs a user, I would like to see a separation of events to commits, issues, and comments.
3. Burndown Chart

As a user, I would like to have access to the burndown chart of the team.

1. Tabs

As a user, I want to see different tabs in order to have access to general information, reports, burndown charts, and comments.

1. Implement a graphing tool

As a user, I would like to see the breakdown of events into tables and charts.

1. Report Type

As a user, I want to choose how the required information will be displayed. In table forms or charts, or both combined.

1. Data Selection

As a user, I want to be able to select the data shown to me.

Extra functions

1. 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.

1. 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.

1. Separation by sprints

As a user, I want to specify sprints as a time range to be able group information in charts by sprints.

1. Grading space

As a user, I would like to publish grades for each sprint so that the team could see it.

1. 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.

1. Managing repositories

As a user, I should be able to manage repositories on my page, that I could edit list of repositories.

# Architecture blocks

Git_repo/Documentation/Block%20Diagram.png

# 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