

## System and Unit Test Report

**Product:** TSR Assistant

**Team:** Drowning with Ducks

**Date:** 12/3/2017

*Note: As a result of constraints that we were faced with when working inside an existing codebase, we have no proper unit tests - instead, all of our testing was functionally system testing with incremental changes.*

Assumption for all tests: There exists a course with a professor and  $n$  number of members in it, where  $n$  is some integer. All members of a project have filled out their assigned TSRs.

- There exists a test database that upholds all of these assumptions (see Github).

### Sprint 1:

- A. User Story 3: As an instructor I want to be able to see the analysis of existing TRS's in the GrepThink infrastructure to simplify where TSR's can be accessed.
  - B. User Story 4: As a developer I want to manipulate a block of data within the GrepThink data, to freely use and call.
- Scenario 1 - Tests User Story 3:
    - Instructor logs into Grepthink.
    - Select class.
    - Select project.
    - Select View TSR tab.
    - Instructor should see a junk data string displayed above existing the TSR display.
  - Scenario 2 - Tests User Story 4:
    - Team member logs into Grepthink.
    - Select class.
    - Select project.
    - Select TSR tab.
    - Select TSR that was not completed.
    - Fill out percent contributions for each team member.
    - Click submit.
    - Change numbers around to see if they all add up to 100.

### Sprint 2:

- A. User Story 1: As an instructor, I would like to have a system that does numerical/statistical analysis on the TSR team member ratings so that I do not have to do them manually and save time.

- B. User Story 2: As an instructor, I would like to see if certain students have wildly different scores from their peers, so that I can check in on potential conflicts.
  - C. User Story 3: As an instructor, I would like to know which teams and students require more attention, so I can more immediately address issues with the team
  - D. User Story 4: As an instructor, I would like to know if certain students are putting effort into responses or have long grievances, so I can take note of student effort and potential conflicts in teams
- Scenario 1 - Tests User Story 1:
    - Instructor logs into Grepthink.
    - Select class.
    - Select project.
    - The Raw Analysis tab should be selectable. If so, select it.
    - There should be a text field display in the Raw Analysis tab.
    - Select View TSR tab.
    - The contribution scores should add up to 100.
  - Scenario 2 - Tests User Stories 2, 3, 4:
    - Instructor logs into Grepthink.
    - Select class.
    - Select project.
    - Select the Raw Analysis tab.
    - The instructor should be able to see reports of low and high word count feedback.
    - The instructor should be able to see reports of low and high scores.

### **Sprint 3:**

- A. User Story 1: As an instructor I would like to see an overview of the team member's health so that I can manage teams more efficiently.
  - B. User Story 2: As an instructor I would like to see an overview of the team's health so that I can manage teams more efficiently
  - C. User Story 5: As a developer, I would like to refactor and refine our analysis and flags, so that I can more effectively access and process the data
  - D. User Story 6: As a developer, I want to know what my limitations are on frameworks for rendering of data so that our rendering of data will be consistent with our sponsor's.
- Scenario 1 - Tests User Stories 1, 2:
    - Instructor logs into Grepthink.
    - Select class.
    - Select project.
    - The Graphical Analysis tab should be selectable. If so, select it.

- In the Team Health section, there are two tables:
  - In the first table, each student has an Average Contribution number, as well as their status.
  - In the second table, there is a Team Status section that shows a text summary in a certain color of how the team is doing.
- Scenario 2 - Tests User Stories 5, 6:
  - Instructor logs into Grepthink.
  - Select class.
  - Select project.
  - The Graphical Analysis tab should be selectable. If so, select it.
  - Below the Team Health section, there are two graphs, and one table:
    - The Students' Contribution Scores Received graph shows all members in a team and their respective contribution score received for the selected TSR.
    - The Historical Averages graph displays the selected member's average contribution score received for each TSR.
    - The table shows Analysis Flag Details depending on the Student and TSR number. Each can be suppressed at the bottom to adjust the Team Status table in the Team Health section. At any point, the flags can be reset to its original listing with the Reset Flags button at the bottom of the table.

#### **Sprint 4:**

- A. User Story 2: As an instructor, a way to view specific flags so that I can focus on flags relevant to the selected TSRs
- B. User Story 4: As an instructor, I would like the graphs and charts to be more visually appealing so that I can have a pleasant viewing experience
- Scenario 1 - Tests User Stories 2, 4:
  - Instructor logs into Grepthink.
  - Select class.
  - Select project.
  - Select the Graphical Analysis tab.
  - The colors of the graph should not be jarring.
  - Scroll down to the bottom of the page.
  - Select a different TSR for the flag reporting section.
  - The list of flags at the bottom of the page should reflect which TSR was chosen.
  - Check the box to the right of any flag.
  - Click the button that says submit.
  - The page should not refresh.
  - The selected flag should disappear.

- Click the button that says reset flags.
- The page should not refresh.
- The removed flag should reappear.