Team Project Phase 3

Start Assignment

- Due Apr 2 by 11:59pm
- Points 100
- Submitting a file upload
- File Types pdf
- Available Jan 13 at 12am - Apr 4 at 11:59pm

Introduction

The goal of this team project phase is to add functionality to the TP2 submission and build on the HW3 experiences of the team to produce a TP3 submission that enables:

- Reviewers to create, view, update, and delete reviews of questions and potential answers.
- Reviewers to scan a list of the reviews they wrote, see, and reply to private messages from the authors of questions or answers they have reviewed.
- Students to read reviews of potential answers they have found.
- Students to engage in a private exchange with a reviewer.
- Students to establish and maintain a list of trusted reviewers and a separate search that only produces reviews from trusted reviewers.
- Students to add a weightage value to each reviewer that determines the order of multiple reviews that are displayed, so the most likely to be useful is on top.
- Students to request permission to play the role of a reviewer.
- Instructors to review the questions and answers a specific student has written to determine whether to grant a student’s request to be a reviewer.

Implementing these functions will require the team to identify and select relevant User Stories to guide the work. Remember that these stories may be incomplete, may conflict with one another, and may be in error. Your team must work to resolve these issues by engaging with the representative of the project’s stakeholders (e.g., your professors) and produce a worthy submission well before the deadline.

Two screencasts must be produced: the first demonstrates that the new functional requirements have been implemented and validated using JUnit testing. The second specifies how all the requirements align with the architecture (which may need to be updated from what was provided), the potentially updated detailed design, the code, the automated tests, and the stakeholders’ needs as described in the product vision. Each member of the team must be a screencast presenter, and the length of each must be roughly the same.

The team must submit a properly filled-out PDF using a provided MS Word template. The detailed requirements for this homework are specified below. **Each team member** is required to verify that the submission was successful and works as required **before** the deadline.

Tasks

This team project phase requires the team to perform the following tasks.

1. Review the provided vision and User Stories, identify those user stories from the student, reviewer, and instructor roles that deal with the items listed above, and **document** what will be implemented in this phase. Only include those stories required to satisfy the above list and then implement only what is needed from the User Stories to satisfy these items.
2. Collaborate across the team to create and **document** a plan (e.g., who will do what and when) to implement those user stories. Emphasize resolving unknowns and risks as early as possible. (E.g., If the obvious solution does not work, ensure there is enough time to experiment as needed to find a solution that does with enough time remaining to implement the components and integrate them into the submission well before the deadline.) The documentation must include updates to the architecture and the design so that every aspect of the code is covered by and is in alignment with the architecture and the design. Part of the documentation includes notes from each Standup Meeting showing that standups were held and the kind of unplanned issues that occurred.
3. Establish and **document** a list of JUnit tests that must be produced and used. Implement the tests and address issues these tests uncover.
4. Implement, **document**, test, and enhance the TP3 solution and the plan as required to satisfy the requirements. Document issues that required changes to be made and any issues that required unplanned effort.
5. Upload the TP3 application source to your team's GitHub, ensuring the grader has permission to access and download the submission. (Do not make your GitHub content available for anyone outside of your team or the Grader to access!)
6. Produce a pair of screencasts. The first demonstrates the new functional requirements have been implemented and validated using the JUnit testing. The second explains how the requirements align with the architecture (which may need to be updated from what was provided), the potentially updated detailed design, the code, the JUnit tests, and the stakeholders' needs as described in the product vision. Each team member must present a portion of these screencasts, and the length of their contribution must be roughly the same. Upload these screencasts to your GitHub, ensuring the grader has permission to access and download them.
7. Produce a PDF using the following MS Word template and capture evidence that each of the above tasks was performed by including each documented element specified in tasks 1 - 4.
8. Submit this PDF before the deadline so there is enough time for the upload of the submission to finish, for Canvas to process the submission, and for Canvas to add it to its data repository before the deadline. Just **starting** the upload before the deadline is **not adequate**! It is the responsibility of **every member of the team** to ensure the submission satisfies the requirements, the submission has been successful, and it is visible in Canvas before the deadline.
9. Perform the Peer Evaluation for this assignment, and the submission has been successfully received by Canvas before the deadline.

Deliverables

A PDF document must be produced that covers the following items.

- Use the following Template for your PDF submission: 5%

TP3-Submission-Template.docx

- Cover page complete with your name: 5%
- Task 1: List what will be implemented in this phase as covered in Task 1 above: 10%
- Task 2: Implementation Plan and Progress Made: 15%
    - Each member of the team has been allocated work to be done (including updates to the architecture and design) and when that work will be tested and ready for integration. (5%)
    - A schedule of the Standup Meetings (at least twice a week) for the team. (5%)
    - Notes from **each** Standup Meeting showing progress, issues, and next steps. (5%)
- Task 3: List of JUnit Tests to be Implemented: 10%
    - The purpose of each test. (5%)
    - Specify who will implement, document, and produce the screencast of the use of each test. (5%)
- Task 4: Implemented TP3 as planned: 10%
    - The code (both the code remaining from TP2 and the new code added) is consistent with the architecture and the design. (5%)
    - The internal documentation is professional, specifies how this code implements the design and makes note of anything that is not obvious and why it was done that way. (5%)
- Task 5: A working URL that can be copied and used to access the GitHub and the code and Screencasts has been provided. (10%)
- Two Screencasts and a Plan for producing them: (25)%
    - The first is a technical screencast that shows and explains the architecture, design, and code. The text of these items must be readable, and the explanation must be audible and how the code accomplishes its purpose. (10%)
    - The second screencast is aimed at all potential users and shows the execution of the application and how each requirement is satisfied and validated by JUnit tests. (10%)
    - For each screencast, produce and **document** a brief plan outline that specifies who on the team will do what (to show equal allocation of effort). The technical plan outlines the items from requirements to the final product and how they flow gracefully to the final product that the screencast will cover. The second screencast plan outlines which team member will cover which of the requirements Each team member must participate equally as a screencast presenter. (5%)
- The code (nicely formatted with internal documentation) produced for this assignment is consistent with the provided code and documentation, so most people would assume it had been written by the same author: 10%