Team Project Phase 4

Start Assignment

- Due Apr 23 by 11:59pm
- Points 100
- Submitting a website url or a file upload
- File Types pdf
- Available Jan 13 at 12am - Apr 25 at 11:59pm

Introduction

The goal of this team project phase is to understand what needs to be done and produce a plan to do it. The work requires the team to correct, if needed, and add functionality to the TP3 submission and build on the HW4 experiences of the team. This requires the team to collaborate to expand the epics into a set of User stories and to produce a TP4 submission that implements the remaining User Stories and/or elements of User Stories and documents that implementation (both internal documentation as well as updated architecture and design documentation).

Your team must also produce a plan for the creation of two screencasts. The plan must specify what each team member will do and when it will be done.

Remember that these stories at the heart of this phase 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, that they work, and that they have been 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, produce new User Stories that cover the unimplemented epics and other User Stories and/or portions of User Stories, and **document** what

will be implemented in this phase.

2. Collaborate across the team to create and **document** a plan (e.g., who will do what and when) to implement remaining User Stories and/or portions of 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 new JUnit tests that must be produced and used. Implement the tests and address issues these tests uncover.

4. Implement, **document**, test, and enhance the TP4 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 TP4 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 provided 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%

TP4-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 TP4 as planned: 10%
  - The code (both the code remaining from TP3 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%