Team Project Phase 2 - Wednesday

Start Assignment

- Due Feb 26 by 11:59pm
- Points 100
- Submitting a file upload
- File Types pdf
- Available Feb 7 at 12am - Feb 28 at 11:59pm

Change Log:

This assignment has been updated to clarify the User Stores to implement and the screencasts to produce, to provide the submission template link, provide missing information for Task 4 (including change in the percent allocation to provided items), and other clarifications.

Introduction

The goal of this team project phase is to add functionality to the TP1 requirements and build on the TP1 and HW2 experiences of the team to produce a TP2 submission that enables the following:

- Students to ask questions.
- Students to propose answers.
- Students to search for and read questions and proposed answers.
- Students to ask for or suggest clarifications.
- Students to update questions or answers.
- Students to announce that a specific answer addressed the issue that prompted the initial question.

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, TAs, and UGTAs) 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 basic automated 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 individual HW2 solutions the members produced and agree, establish, and **document** the same set of classes that would serve the team best moving forward. The documentation must explain how the code implements the design and why the code was written this way. This may require effort to design, implement, test, and document (internal and external) the agreed-upon team's solution. Be sure the documentation provides evidence (e.g., screencast and console output) that the code has been tested and operates as required.

2. Review the provided vision and Student User Stories. Identify those user stories from the student role that deals with creating, reading, updating, and finding/searching for questions and potential answers. Establish and document **new user stories** that will be implemented in this phase that cover the CRUD plus find/search functionality of users in the student role. Do not include stories that involve users playing the role of reviewers, instructors, or staff members. You do not need to fully implement the provided Student User Stories in this phase, but you will be called upon to implement all aspects in a later project phase. Be sure to explain the relation from each of these new user stories to the provided Student User Stories.

3. Collaborate across the team to create and **document** a plan (e.g., who will do what and when) to implement the user stories from task 2. There are three weeks between team project phases, so there could be as many as six standup meetings. Emphasize resolving unknowns and risks as early as possible. (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.) Part of the documentation includes a short textual description of the progress made from each standup meeting and the screencast recording of the meeting showing what was accomplished, what is planned to be done next, and the issues that blocked or concerned you. Each team member must provide a screencast segment of 2 to 3 minutes. This can be in the form of one recording of a Zoom meeting or a set of individual Zoom recordings.

4. Establish and **document** a list of new automated tests **and manual tests** (for the GUI and other things that cannot be addressed using the basic test automation) that must be produced and used to show that new and changed class methods work as required. Implement the tests and address issues these tests uncover.

5. Implement, **document**, test, and enhance the TP2 solution and the plan as required to satisfy the above-listed requirements. (The "documentation" includes the screencast recordings from the work on the Team's HW2 and the required standup meetings. Standup meeting recording should be

roughly 15 minutes long.)

6. Upload the TP2 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 to anyone other than the Grader or your team!)

7. Produce an additional pair of screencasts. The first demonstrates, using basic automated testing, that the new functional requirements have been implemented and validated. 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 automated 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.

8. 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 - 5.

9. 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.

10. 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%

🔁 **[TP2 Assignment Template.docx (https://canvas.asu.edu/courses/215181/files/102662594?wrap=1)](https://canvas.asu.edu/courses/215181/files/102662594?wrap=1)**

- Cover page complete with your name: 5%

- Task 1: Establish and Document the Team's agreed upon solution for HW2 for use in this Team Project Phase submission: 10%
  - The design documents (possibly updated) have been provided. They are complete, explain how the code implements the design, and there is evidence (e.g., console output and screencast) that the code has been tested and it works. (5%)

- The source code for the Team's HW2 has been stored in the team's GitHub. The code aligns with the documentation, and the internal documentation is consistent with the originally provided code. (5%)

- Task 2: User Stories: 10%
  - List each of the User Stories that will be implemented for this phase and its relation to the provided Student User Stories. (5%)
  - Each User Story in the list is about the student role and deals with creating, reading, updating, deleting, and finding/searching questions and potential answers. (5%)

- Task 3: Implementation Plan and Progress Made: 15%
  - Each member of the team has been allocated one or more user stories (or portions of user stories) and when they will be tested and ready for integration. (3%)
  - A schedule of the Standup Meetings (at least twice a week) for the team. (3%)
  - Screencast recording from **each** Standup Meeting documenting progress, next steps, and issues. (4%)

- Task 4: List of Automated and Manual Tests and Results: 15%
  - The purpose of each test. (3%)
  - Specify who will implement, document, and produce the screencast of the use of each test. (2%)
  - The screencast for each listed manual test and the console output for each listed automated test. (10%)

- GitHub: A working URL that can be copied and used to access the code and the various Screencasts specified above and below: 10%

- Two Additional Screencasts and a Plan for producing them: 20%
  - The first is a technical screencast that shows and explains the code. The code must be readable, and the explanation must be audible and how the code accomplishes its purpose. (8%)
  - The second is aimed at all potential users and shows the execution of the application and how each requirement is satisfied. (8%)
  - 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. (4%)

- 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%