SER 516 Project 2
Sprint 1/2

Team #76

Project Contributors

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Project Backlog

Story/Learning Task	Advancement			
	Error	Not Tested	**Done**	Moved to next sprint
TEAM A				
As a professor, I want a quiz dashboard, so that I can see all the functions, like Questions, ViewGrades, Statistics, etc.			√	
As a professor, I want two individual pages including details page and questions page, so that I can set information and questions of the quiz respectively.			√	
As a professor, I want an input area for quiz title in the details page, so that I can set a title for the quiz.			√	
As a professor, I want an input area for quiz instruction in the details page, so that I can set an instruction of the quiz.			√	
As a professor, I want to have selective boxes for option so that I can provide correct options to Questions so that they can be graded.			√	
As a professor, I want a proper navigation buttons, so that I can move between pages easily.			√	
As a DataBase handler, I want a database to manage the data about quiz info and questions, so that I can store the data from the instructor side application and provide it to the student side application.			√	
As a DataBase handler, I want a database to manage the data about students' answers, so that I can use the data from students to do statistical analysis.			√	
As a DataBase handler, I want a database to manage login details for the users and their priorities, so that I can use this data and give the users their respective access for quiz.			√	
As a professor, I want a partial grade to be given for questions with multiple answers so that the students who answers part of the question right gets awarded with some points.			X	√
As an professor, I want to have a button to be able to edit the content and questions of the quiz so I can modify when necessary			X	√
TEAM B				
Learning Task: JSP			√	
Learning Task: MySQL			√	
Learning Task: Java Servlets			√	
As a student, I want a quiz dashboard, so that I can see all the functions, like Questions, ViewGrades, Statistics, etc.			√	
As a developer, I want manage sessions for each user, so that every user can access the private data and personalized settings.			√	
As a developer I want an access control mechanism so that we can control permission of users as per their roles.			√	
As a developer I want a session finalization mechanism so that we can control the system exit process.			√	
As a student, I want to be able to look at my grades for the quizzes I have attempted so that I can see my performance			X	√

Sprint 1

Review
- For the First sprint, our goal is to build a MySQL database, login page, Professor page and Student page.
- For the database, we wanted to mock some data by which, we can show how the actual application would look like. We did some experiments of making the DS more complex which did not pan out well, but it was a good learning curve for all of us. We were able to deliver what we decided for this sprint.
- For the web application, though many of us were new to JSP/Java Servlets programming, we managed to figure out the nuances of it and create an adequate framework library development.
- Working with the API from the DS team, we researched the capabilities of the JSP API to determine if it was feasible. Overall, we met the sprint goals of understanding the JSP and creating a framework for sharing that data with the other teams.

What went well in the sprint
- A few things That our team was not familiar with or they need to brush up those things in order to use them. We learnt JSP, MySQL, Java Servlets and Taiga for Task/User Stories scheduling.
- We were able to create, manage and divide task/User Stories in 2 different teams. After distributing all tasks, we started learning JSP, MySQL, and Servlets and worked our way in implementing these technologies into our project.
- Everyone Seemed mostly willing to spend quality time to learn these things.
- Communication on slack was very clear and fast.
- The Group calls on slack was very helpful in gathering information, distributing tasks, and planning for the project.

What could be Improved
- We were a little late in assigning user stories to all the team members, we should've done this earlier to get more time for coding.
- Though the communication between both teams was good, inter-team transparency should've been better, otherwise, there would be a huge gap to fill at the end.
- More Consistent workflow should've reduced the backlog further and made the work a little easier.
- We spent more time than expected in learning the framework which gave us less time in the end and had to rush on the tasks decided.

Retrospective Idea:
- For the Second Sprint, the existing model will be used and user stories that were moved from Sprint 1 to Sprint 2, should be finished first. We will be setting quizzes from professor page and student can able to see them, and students will be able to submit the quiz, and quiz answer should be stored in the DB.
- If we need something that we have to implement that we are not familiar with, we should plan a little better. Distributing and planning Tasks/User Stories should be more efficiently done and planned more precisely.
- Communication between teams and their members must be improved to reduce ambiguity if any.
- Tasks will be assigned early so that coders can have more time to think, to come up with even better solutions.

Burndown Charts

Burndown Chart Team A

Legend: Work Done | Actual Burndown | Ideal Burndown

Burndown Chart Team B

Legend: Work Done | Actual Workdone | Ideal Burndown