Sprint 2

Task Decomposition

User stories considered for this sprint:
1. As Matija, I want to create questions
2. As Matija, I want to create new assignments
3. As Miroslav, I want to be able to set correct answers to each question in an assignment
4. As Keith, I want to be able to view assignment questions.
5. As Kelly, I want to be able to answer assignment questions.

Sprint Plan

User Story	Tasks	Tasks (Detailed)	Points	Deps	Member
U1: As Matija, I want to create questions	T1: Page for user to input question as string	A php page whose purpose is to take user to input through text fields.	2		Darius
	T2: Function to store a string into a file	The function will take string input from the user through a textbox.	2	U1:T1	Kevin
	T3: Make database table to store the location of question files	The creation of the basic database tables for questions and assignments.	2		Adam
	T4: Use store function to store question info onto server from page, record question into database	The function takes questions input from the user and saves the question as a text file in the database.	3	U1:T1, U1:T2, U1:T3	Adam
	T5: Allow user to set variables in questions that are randomly generated from a given range		5	U1:T1, U1:T2, U1:T3	Brian

User Story	Tasks	Tasks (Detailed)	Points	Deps	Member
U2: As Matija, I want to create new assignments	T1: Page to create new assignment.	A php page whose purpose is to display available questions to the user. There will be a temporary checkbox corresponding to each question.	2		Brian
	T2: Function to add questions to an assignment.	The user will select a checkbox corresponding to a question if they wish to include that question in the assignment. There will be a submit button that will direct the user to another result page displaying the corresponding IDs of the questions that were selected.	3	U2:T1	Daniel
	T3: Function to store set of questions as an assignment to DB		3		Adam
	T4: Function to select n random questions	Add option to assignment creation page that, given a number *n,* adds *n* randomly selected questions to the assignment	2	U2:T6	Brian
	T5: Create database table to map questions to assignments		2		Adam
	T6: Function to list questions from DB	Change the edit assignment page to display the running list of questions of the new assignment.	3		Adam
	T7: Page to list all assignments created	Query and output all assignments in the database with their corresponding attributes such as start_date and end_date.	2		Daniel

User Story	Tasks	Tasks (Detailed)	Points	Deps	Member
U3: As Miroslav, I want to be able to set correct answers to each question in an assignment.	T1: Update question display page to calculate answer, determine if user input is correct		5		
	T2: Function that takes variables and a formula and outputs answer		4		Brian
	T3: Update question creation page to have option to create answer	Pass question formula to the question preview page, provide sample computation with Wolfram Alpha API	5		Darius

User Story	Tasks	Tasks (Detailed)	Points	Deps	Member
U4: As Keith, I want to be able to view assignment questions.	T1: Page to display the question from the string	Page that takes post information about question ID and does a lookup on the question text from the file list. Print the file contents.	3		Darius
	T2: Update Question display page to be able to display multiple questions.	Page that display all the questions in the assignment given an assignment id.	2	U2:T1	Kevin

User Story	Tasks	Tasks (Detailed)	Points	Deps	Member
U5: As Kelly, I want to be able to answer assignment questions.	T1: Create database table to hold student results		1		Adam
	T2: Integrate student results table into page generated in U4.		2	U4:T1, U4:T2	

Execution: 2017-10-14 to 2017-11-02

Provisional Execution

Member	Task	Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
Adam	U1:T4	3	1	1	1						
Brian	U1:T5	5								2	3
Adam	U2:T3	3	1	1	1						
Brian	U2:T4	2					2				
Adam	U2:T5	2				2					
Adam	U2:T6	3					1	1	1		
Daniel	U2:T7	2						1	1		
	U3:T1	5									
Brian	U3:T2	4					1	3			
Darius	U3:T3	5					5				
Darius	U4:T1	3					3				
Kevin	U4:T2	2								2	
Adam	U5:T1	1								1	

Sprint Execution

Member	Task	Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9
Adam	U1:T4	3					3				
Brian	U1:T5	5									
Adam	U2:T3	3					3				
Brian	U2:T4	2								3	
Adam	U2:T5	2					2				
Adam	U2:T6	3					3				
Daniel	U2:T7	2						1	1		
	U3:T1	5									
Brian	U3:T2	4									1
Darius	U3:T3	5					5				
Darius	U4:T1	3					2				
Kevin	U4:T2	2								2	
Adam	U5:T1	1									1

Burndown Chart

Legend: Provisional, Actual

X-axis: Days (0, 2, 4, 6, 8)
Y-axis: Story Points (0, 10, 20, 30, 40)