Task	Details	Description	Related user story	Story points	Dependencies	Successor
T1	Create database script to store questions and answer	Create a database with the following tables Question: questionId(primary key), question, answer, courseId Assignment: assignmentId(primary key), related_questionId(foreign key), courseId(foreign key) MC: questionId, choice Course: courseId(primary key)	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	2	None	T2,T3,T4,T5,T6, T8
T2	Create Multiple Choice Question UI	Implement UI framework for MC question and should include: - multiple choices - question description	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	3	T1	T6,T16
T3	Implement Multiple Choice Question Backend	Receive question data from the UI then store MC into the database Retrieval of question data from database to send to UI	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	3	T1	T6, T27
T4	Implement Short Answer Question Backend	Receive short answer question data from the UI then store question into the database Retrieval of question data from database to send to UI	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	3	T1	T6
T5	Create Short Answer Question UI	Implement UI framework for short answer question and should include - text box - question description	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	2	T1	T16
T6	Create UI to view all created question	Implement UI framework for all questions that are created - this including all types of questions - button to edit/delete existing questions which redirects to - button to add new question	As Henry, an instructor, I want to see all available questions and solutions	3	T3,T4	T27
T7	Implement UI for creating assignment (both MCQ and short answer)	Create UI for creating assignment such that user can create an assignment name and select existing questions to create the assignment. Implement backend for creating assignment such that the assignment created from UI can be stored into the database	As Henry, an instructor, I would like to create an assignment that has a name and a large set of question by selecting created questions As Henry, an instructor, I would like to create an assignment that has a name and a large set of question by selecting created for creating assignment such that user can create an assignment name and select existing questions to create the assignment	4	T1,T2,T3,T4	T7
T8	Implemenet backend for creating assignment			6	T7	
T9	Add a page to view all created assignments	Implement UI framework for all assignments that are created - button to edit existing assignment - button to delete existing assignment	As Henry, an instructor, I would like to create an ass	1	T8	
T10	Implement UI for answering assignment questions	Create a new page so that user can answer questions on an assignment	As Tyreke, a student, I would like to have access to requir	6	T3,T4	
T11	Update database script for users	Create the following tables in the database: User: utorid(primary key), email, password, course, role Marks: studentId(foreign key), assignmentId, mark , courseId(foreign key)	As Henry, an instructor, I would like to create an instructor account and the fields of entry for registration should at least include name, UTmail, program and password.	1	T1	T12,T13,T14
T12	Create UI to register and login an instructor account (after creating the account on the backend)	Implement instructor account registration and login UI The fields of entry for registration should include name, UTmail, UTORid, course and password. The entry fields for login should include UTmail and password.	As Henry, an instructor, I would like to create an instructor account and the fields of entry for registration should at least include name, UTmail, program and password.	1	None	T10,T11,T16
T13	Create UI to register and login a TA account (after creating the account on the backend)	Implement TA account registration and login UI The fields of entry for registration should include name, UTmail, UTORid, course and password. The entry fields for login should include UTmail and password.	As Tina, a TA, I would like to be able to create a TA account and the fields of entry for registration should at least include name, UTmail, program, student number and password	1	T9	T16
T14	Create UI to register and login a student account (after creating the account on the backend)	update db to create new tables	As Shirley, a student, I would like to have a system/UI to create a student account to submit my assignments online. The fields of entry should at least include name, UTmail, student number, program, year, password	1	T9	T16
T15	Create an instructor account in the Backend	Include implementing backend (storing new account to db) An account must have the attributes: name, UTmail, UTORid, course and password.	As Henry, an instructor, I would like to create an instructor account with full acess to the system.	2	T8	T15

T16	Create a TA account in the Backend	Include implementing backend (storing new account to db) An account must have the attributes: name, UTmail, UTORid, course and password.	As Tina, a TA, I would like to be able to create a TA account and the fields of entry for registration should at least include name, UTmail, program, student number and password	1	T8	T15
T17	Create a student account in the Backend	Include implementing backend(storing new account to db) An account must have the attributes: name, UTmail, UTORid, course and password.	As Shirley, a student, I would like to have a system/UI to create a student account to submit my assignments online. The fields of entry should at least include name, UTmail, student number, program, year, password	1	T8	T15
T18	Implement backend for answering assignment questions	Update the database after user submits an assignment	As Tyreke, a student, I would like to have access to requir	3	T9,T10,T11,T17	
T19	Implement instructor permissions	Implement UI and backend for an instructor such that he can: - update permission of TA and student account such that: - TA can view assignment before it is accessible to student and mark submitted assignments - Student can access the assignment - update visibility of assignment - update status of assignment such as due date and marks	As Henry, an instructor, I would like to be able to provide permissions to users, such as TA permissions such that TA can view assignment before it is accessible to student, mark submitted assignments.	2	T12,T13,T14	
T20	Make assignment visible to only people with the correct permission	Add visibility of assignment based on the permission	As Felix, a TA, I would like to view the assignment before	2	T7,T8	
T21	Generate random sets of questions for each assignment	Create function to form randomized sets of questions for each student from a large set of questions for each assignment	As Patricia, an instructor, I would like to be able to quickly	2	T7,T8	
T22	Edit existing question	Implement UI and backend so that user can edit an existing question which includes - updating any field on the question	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	1	T1,T2,T3,T4,T5	
T23	Delete existing question	Add function to delete question - delete should be called in view question page and edit existing question page - make sure question is deleted from both database and UI	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	1	T1,T2,T3,T4,T5	
T24	Edit existing assignment	Implement UI and backend so that user can edit an existing assignment which includes - update the associated questions - update the name of assignment	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	1	T1,T2,T3,T4,T5	
T25	Delete existing assignment	Add function to delete assignment - delete should be called in view assignments page and edit existing assignment page - make sure assignment is deleted from both database and UI	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	1		
T26	Update UI for accessibility of the visually impaired	Update the UI so that the background is not blue or yellow	As Shirley, a student, I would like the User Interface to be accessible to visually impaired, which means the background is not blue or yellow	1	T2,T5,T9,T10, T11	
T27	Update Add Question Page UI to support both short answer and multiple choice questions	Currently, can only show multiple choice or short answer - not both at once. Need to add radio button functionality to make one visible and the other invisible after respective button selection	As Henry, an instructor, I would like to be able to create and edit questions, with multiple choice questions and short answer	1	T3, T6	

SPRINT PLAN

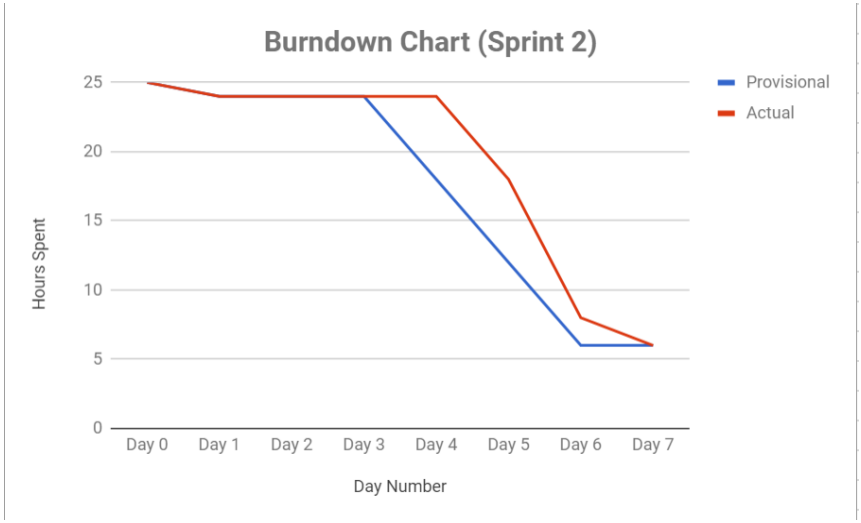
Task	Task Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
T3	3			Rene 1				
T4	3						Rene 1	
T5	2				Talha 1	Talha 1		
T6	1	Felicia 1						
T7	4	Felicia 3				Felicia 1		
T8	6					Felicia 3	Felicia 3	
T10	6	Adrian	2	Adrian 2	Adrian 2			

SPRINT EXEC.

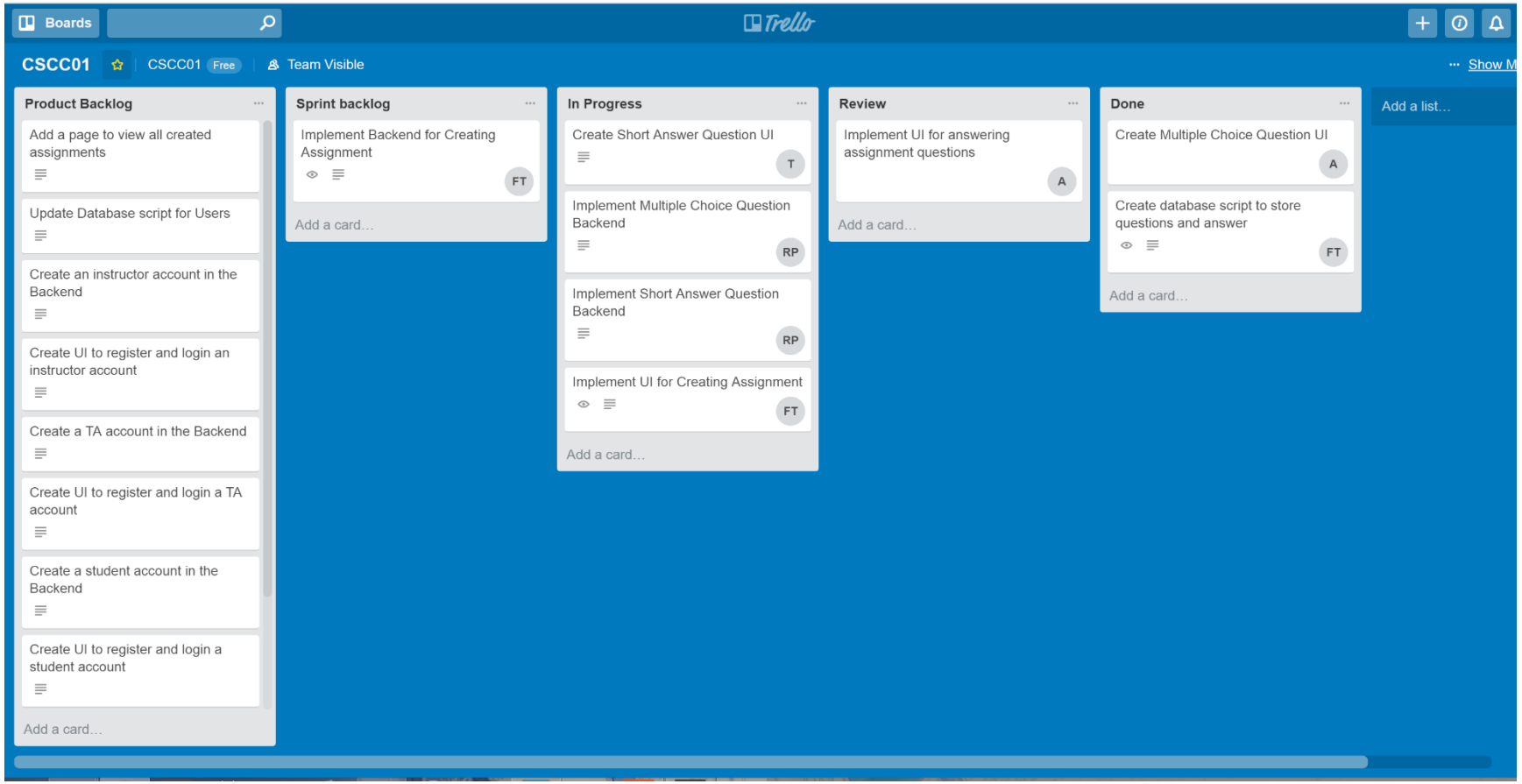
Task	Task Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
T3	3		Rene 1					
T4	3					Rene 1		
T5	2							Talha 2
T6	1	Felicia 1						
T7	4	Felicia		Felicia 3			Felicia 1	
T8	6	Felicia			Felicia 3		Felicia 3	
T10	6	Adrian	2			Adrian 4		

BURDOWN CHART

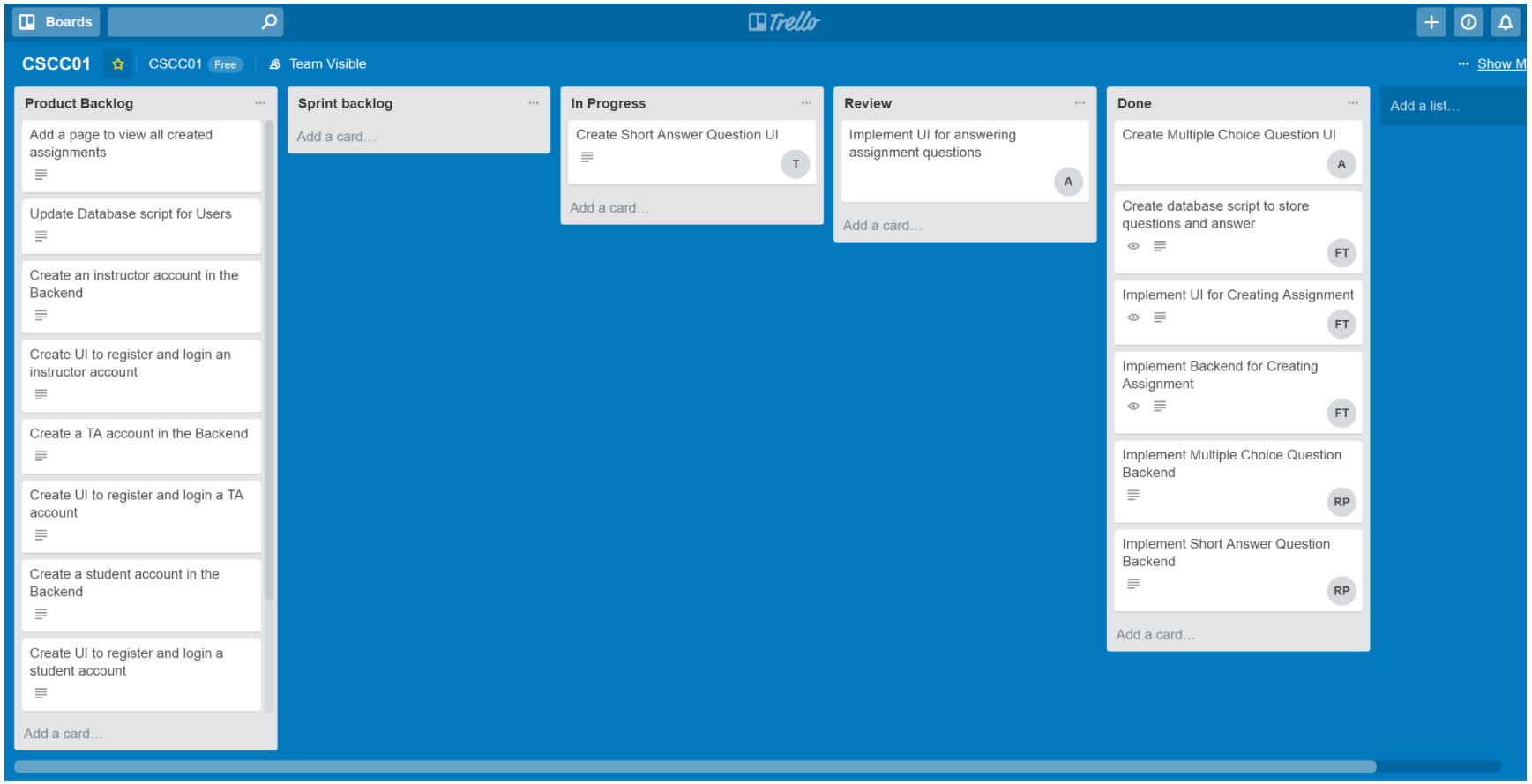
Days	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Provisional	25	24	24	24	18	12	6	6
Actual	25	24	24	24	24	18	8	6



Kanban Before:



Kanban After:



What we discussed before the sprint (planning):

- Discussed about our tasks during our weekly meeting and assigned story points to the respective team member carrying out the task
- Reviewed our work of the code for the prior week and gave each other feedback

What we did during the sprint:

- Team members carried out their tasks and were properly following what their assignments were
- Any questions on the sprint would be asked on our Slack channel at any time
    - Responses were quite fast

What we can improve for the next sprint:

- Burndown chart revealed that the team was more inclined to complete their story points towards the end of the sprint, perhaps for future sprints each can do their part in starting early