Task	Details	Description	Related user story	Story points	Dependencies	Successor	Complete (Y/N)?
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	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.	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	4	T1,T2,T3,T4	T7	
T8	Implemenet backend for creating 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 for creating assignment such that user can create an assignment name and select existing questions to create the 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 assignment that has a name and a large set of question by selecting created questions	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 required assignments to work on and submit them	6	T3,T4		
T11	Add a Home Page	Add a Home Page such that user can go to following pages from the home page: - add assignment page - add question page - view assignment page	As Henry, an instructor, I would like to have a home page after I login so that I can choose what to do, e.g. create assignment/question or view existing resources	4	T5,T7,T9		
T12	Add page to view a created question	Add a page such that instructor can see the question and solution he/she created	As Henry, an instructor, I want to see all available questions and solutions	2	T2,T3,T4,T5		
T13	Add page to view a created assignment	Add a page such that instructor and TA can see a created assignment	As Felix, a TA, I would like to view the assignment before it is accessible to the students	2	T7,T8,T9		
T14	Update Database for Users	Add database function to add and retrieve users and marks	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.	3	T1	T12,T13,T14	
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	None		
T16	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	None		
T17	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	None		
T18	Create register page for all three users	Implement instructor account registration UI The fields of entry for registration should include name, UTmail, UTORid, course 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.	3	None		

T19	Create login page for all three users	Implement account login UI 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	3	None	
T20	Update database script for user type	1. Change users.type from varchar to int 2. Add a new table user_type for user type with following columns - typeid int - userName varchar(255)	As Henry, an instructor, I would like to create an instructor account with full acess to the system.	0.5	T1	
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 form randomized sets of questions for each student from a large set of questions for each assignment	5	T7,T8	
T22	Make assignment visible to only people with the correct permission	Add visibility of assignment based on the permission	As Ali, a student, I would like to have a page where I can view all assignments in progress, completed, and upcoming with a marks summary	2	T7,T8	
T23	Add due date to assignment	- implement due date in the backend (in class object and database) - show due date in UI - assignment marks after due date doesn't count toward final grade	As Henry, an instructor, I would like to be able set a due date for each assignment such that if a student does the assignment after the due date, the grade does not get counted			
T24	Update Home page for instructor user	Update Home page such that instructor (and only instructor) can go to - assignment setting pages (create assignment and question pages) - view all assignment page	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	T16,T19	
T25	Update Home page for student user	Update Home page such that student (and only student) can go to - all assignment page (can be redirected to answer assignment page)	As Tyreke, a student, I would like to view my assignment marks, and request remarks if necessary		T15,T19	
T26	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 required assignments to work on and submit them	3	T9,T10,T11,T17	
T27	Create and test acceptance tests for completed user stories	- create acceptance tests for all completed user stories - validate tests	Admin			
T28	Create unit tests for backend	Create unit test for databaseManager	Admin	3		
T29	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 edit a question, with multiple choice questions and short answer	1	T1,T2,T3,T4,T5	
T30	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 delete a question, with multiple choice questions and short answer	1	T1,T2,T3,T4,T5	
T31	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 edit an assignment so that I can change the due date and related questions	1	T1,T2,T3,T4,T5	
T32	Delete existing assignment	Add function to delete assignment - delete can be done 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 delete an assignment	1		
T33	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.	6	T12,T13,T14	
T34	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	
T35	Validate user type on registration	- Add a table to mock database for actual instructors ID (in reality we should be able to access the data from some school database) - Add validator so when user registers with the his utorid check if user's utorid is in the new table - if it's not in table, return an error to the register UI - if it is, then tells UI is good to go so UI can call backend to create new user entry	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	3	T14,T16,T18	
T36	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	Y

SPRINT PLAN

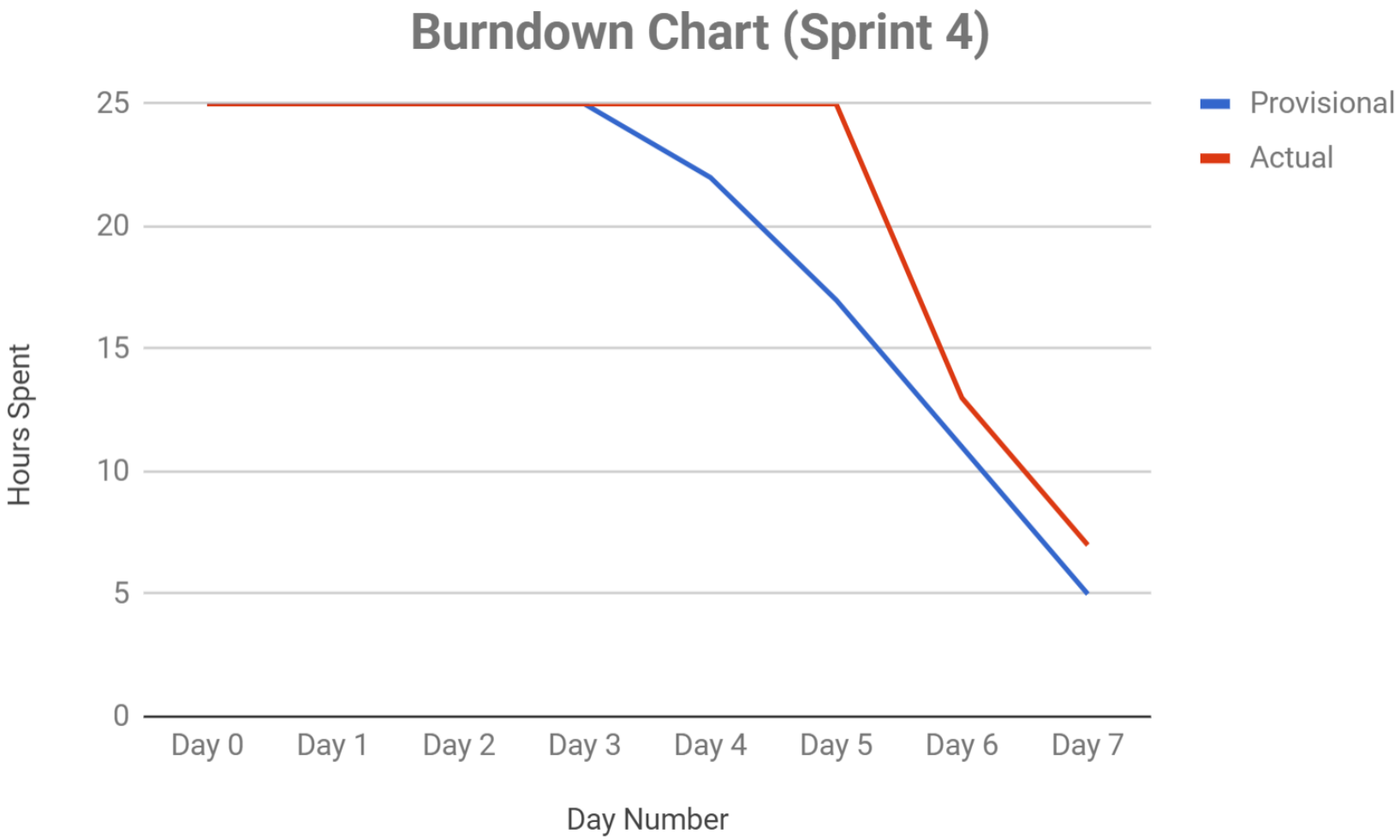
Task	Task Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
T19	3			Talha 1	Talha 1	Talha 1		
T21	5			Talha 1				
T22	2					Felicia 2		
T23	3						Felicia 3	
T24	3				Adrian 3			
T25	3						Adrian 3	
T26	3							Felicia 3
T28	3						Rene 2	Rene 1

SPRINT EXEC.

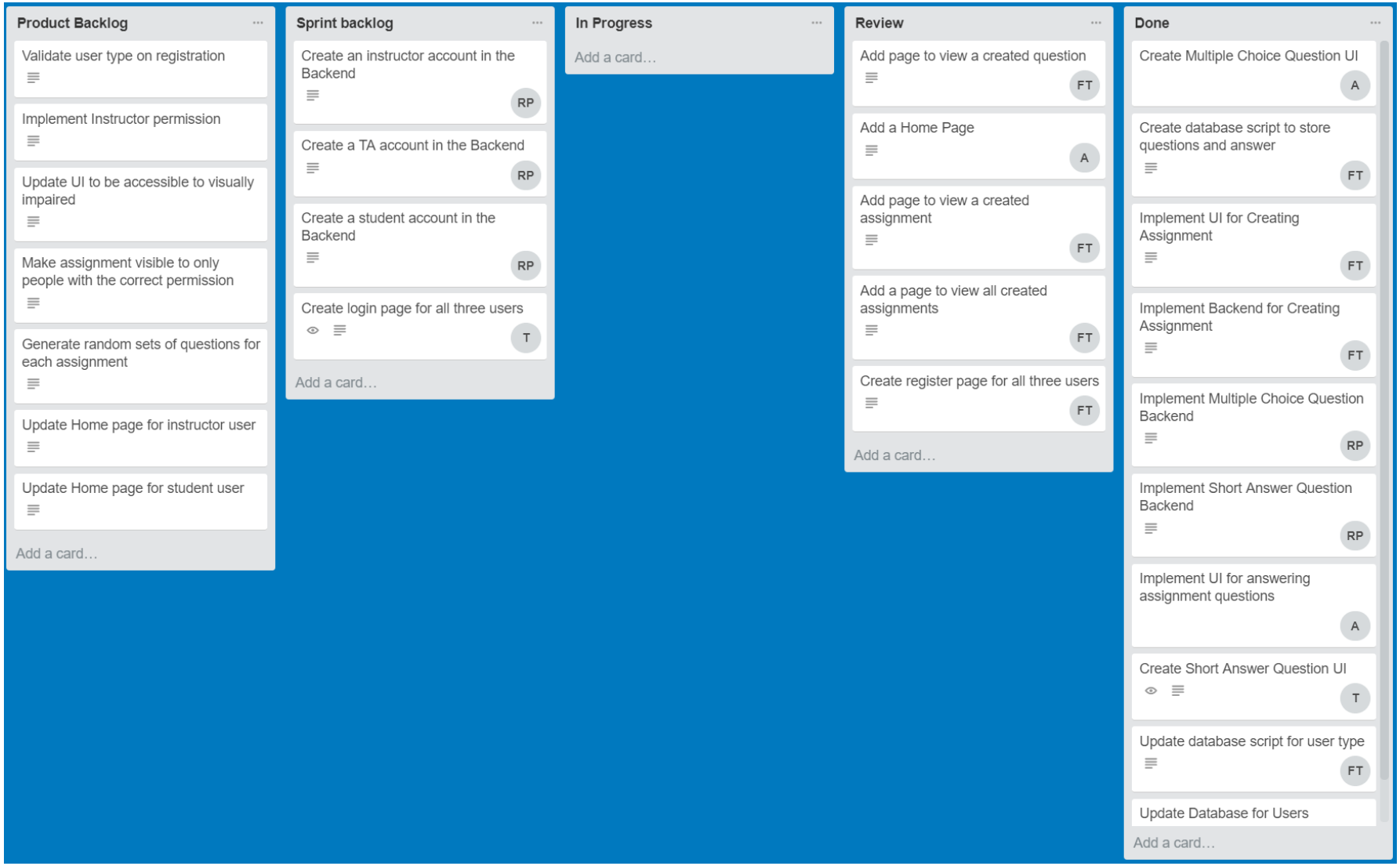
Task	Task Points	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
T19	3					Talha 1	Talha 1	Talha 2
T21	5						Talha 0.5	
T22	2						Felicia 1	
T23	3						Felicia 3	
T24	3						Adrian 3	
T25	3						Adrian 3	
T26	3						Felicia 3	
T28	3						Rene 1	Rene 2

BURDOW

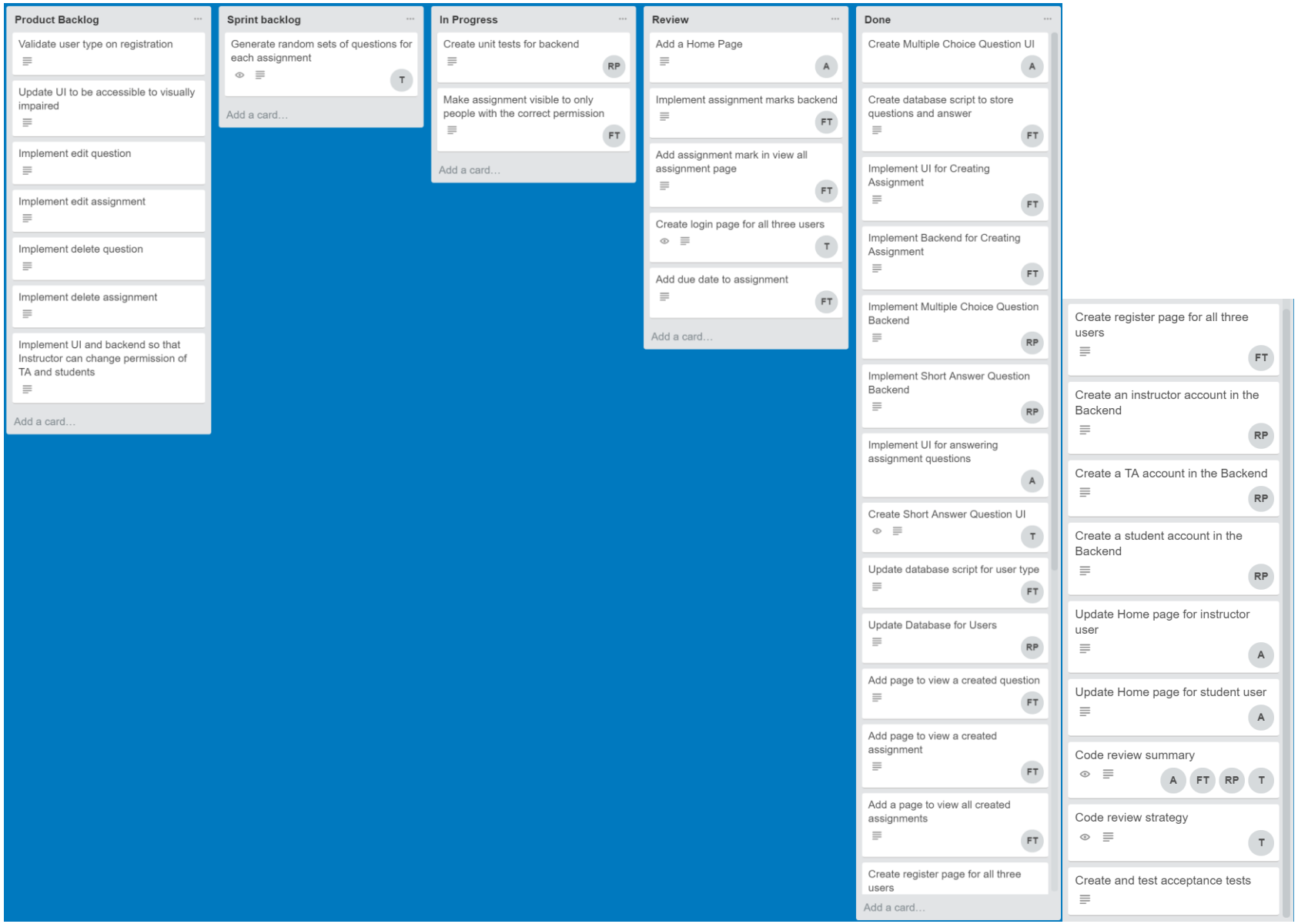
Days	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Provisional	25	25	25	25	22	17	11	5
Actual	25	25	25	25	25	25	13	7


Burndown Chart (Sprint 4)
25
20
15
10
5
0
Hours Spent
Day 0
Day 1
Day 2
Day 3
Day 4
Day 5
Day 6
Day 7
Day Number
Provisional
Actual

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:

- Last week, the team was able to improve on getting tasks done earlier, this time team pushed their tasks towards the end of the sprint again
- Considering the final deliverable is one week from now, team members **need** to put in consistent amount of work towards the final deliverable