CS 408
PRODUCT BACKLOG

Team 4

Project Name: TutorMyClass

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PROBLEM STATEMENT

Every student, at some point, has felt the need for someone to tutor them, when they are stuck with a difficult topic or tough homework problems. There are other students who are willing to tutor the ones in need for a fee, but they still use old school flyers, and the students do not even know about them. There is a need for such a platform to exist where the students (those in need) can seamlessly connect to tutors (those who can provide).

BACKGROUND INFORMATION

Often, when a student is having trouble in a class and they can't find the time to meet with a professor or a TA, they seek for the outside help of a tutor. Currently, most tutors advertise their services through paper flyers posted around campus. This makes it cumbersome for students to reach out to the tutors when in need. Also, a student has no way of knowing the quality of a tutor. Hence the need for an application is to connect the students who need help with the tutors who can provide it, making it easier for both parties.

ENVIRONMENT

We will develop a web application, using the .NET Framework for the full stack. Front end will be mainly HTML, CSS, and a form of JavaScript, with the backend in mainly C#. We will also host a SQL database to store all of our information. We will likely use most standard libraries throughout development, potentially implementing Bootstrap on the front end. We will be using Visual Studio as an IDE and Git as a version control.

FUNCTIONAL REQUIREMENTS

ID	Functional Requirement	Hours	Status
1	As a user, I would like a create an account.	10	Sprint 1
2	As a student, I would like to see available tutors, for selected courses	8	Sprint 2
3	As a student, I would like to view available times for the tutor I've selected	8	Sprint 2
4	As a student, I would like to be able to rate tutors	8	Sprint 2
5	As a student, I would like to be able to see ratings of a tutor	10	Sprint 2
6	As a student, I would like to view tutor's contact information	8	Sprint 2
7	As a student, I would like to search for a specific course	8	Sprint 2
8	As a student, I would like to search for a specific tutor	10	Sprint 2
9	As a user, I would like to edit a tutor profile	8	Sprint 1
10	As a user, I would like to edit a student profile	8	Sprint 1
11	As a tutor, I would like to input the classes I can tutor.	12	Sprint 1
12	As a tutor, I would like to input the days I can tutor.	12	Sprint 1
13	As a tutor, I would like to input the times I can tutor.	8	Sprint 1
14	As a tutor, I would like to input the price I tutor for.	12	Sprint 1

15	As a tutor, I would like to be able to create a bio.	10	Sprint 1
16	As a tutor, I would like to be able to see my rating.	8	Sprint 2
17	As a tutor, I would like to remove my tutoring availability	8	Sprint 2
18	As a tutor, I would like to modify my tutoring availability	10	Sprint 2
19	As a student, I would like to input the classes I am taking	12	Sprint 1
20	As a student, I would like to input the time I am available weekly	10	Sprint 1
	Total:	188	

NON-FUNCTIONAL REQUIREMENTS

1. The application should be simple to register for.
2. The application should not slow down when accommodating for large numbers of users.
3. The application should protect user data.
4. The application should be intuitive and easy to use.
5. The application should not take up a lot of memory

USE CASES

Case Description	Action	System Response
Use Case #1: Create account	Click 'Create Account'	Account creation page loads.
	Enter user information	
	Click 'Sign Up'	Open 'Landing Page'
Use Case #2: Login Page	Type Email	
	Type Password	
	Click 'Log-In'	Checks login information and goes to Main Page
Use Case #3: View tutors for a course	Select a course	Show list of tutors for that course
Use Case #4: View tutor's information	Select a tutor from the list of tutors available for a course	Show tutor's schedule
		Show tutor's contact information
		Show tutor's Bio
		Show tutor's ratings
Use Case #5: Search Function	Type course number	The search returns the courses matched with user's input in search
	Type tutor's name	The search returns the names matched with user's input in search
Use Case #6: Student Profile Settings	Click on 'Student Profile settings'	Student setting page will open
	Fill out calendar with available times	
	Fill out favorite courses	
	Click 'Save' Button	Saves all information to profile

	Click 'Search View Button'	Goes back to student view
Use Case #7: Tutor Profile Settings	Type the course he wants to tutor	If the course already exists, it will get selected
		If the course does not exists, it will queued to add in the database
	Fill in the times he/she wants to tutor	
	Fill in the contact information	
	Fill in the Bio	
	Fill in the price	
	Click 'Save Button'	Saves all the information, and adds the course if necessary
Use Case #8: Rate a tutor.	Click on star rating	Records the rating, computes average, and displays the modified rating