Project Report  
  
  
  
  
  
CSE 299  
Junior Design Course  
Spring – 2019

Section : 2

Group : 4

Team Members:

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Submitted To:  
Shaikh Shawon Arefin Shimon

**Project Name:**

Online Quiz Web App

**Project Type:**

Website Application

Introduction:  
  
Online quiz web app will be a website application platform where teachers around the world can take quizzes of their students virtually via the internet. The teachers will be able to create a classroom which they can invite students to join. After that, the teachers will be able to create a quiz through the web app. The teacher will also be able to set a time for a specific quiz as well as view the grade history of individual classes and students.

Objectives & Functions:

* Different profile types for student and teacher
* Creation of classroom by teacher and inviting students to it
* Creation of quiz sessions with specific time
* In app quiz answers checking
* Publishing results to each student’s account
* Archiving attended quiz questions and answers
* Real time multiple user access and authentication

Monetization Strategy:

Initially the web app will be free to use for a single teacher account and the teacher will be able to take up to 2 quizzes free of charge. After the limit is reached teacher will be able to choose from two of our paid plans.

* **Basic Plan:** Tk. 85 per quiz to be taken.
* **Saver Plan:** Tk. 110 per month for unlimited amount of quizzes each month.

Features List:

**- Teacher Panel:**

* Create classes
* Create quizzes
* View each student’s progress graphically
* View each class’ progress graphically

**- Student Panel:**

* Join classes
* Take quiz
* View quiz grades

Technology implementations:

* Front End – HTML, Javascript, PHP
* Back End – PHP
* Library/Frameworks – Bulma framework, Bootstrap framework, CanvasJS

User guidelines:

* **Teacher’s Approach:**
* Create a teacher account
* Create a class for a section
* Approve students who requested to join the class
* Create a quiz
* View students’ grade history
* View class’ grade history
* **Student’s Approach:**
* Create a student account
* Join a particular class
* Take a quiz
* View grade history

References:

* All the graphic images are taken from [www.freepik.com](http://www.freepik.com)
* Graph chart library: <https://canvasjs.com/php-charts/>
* Css framework <https://bulma.io/>

Miscellaneous:

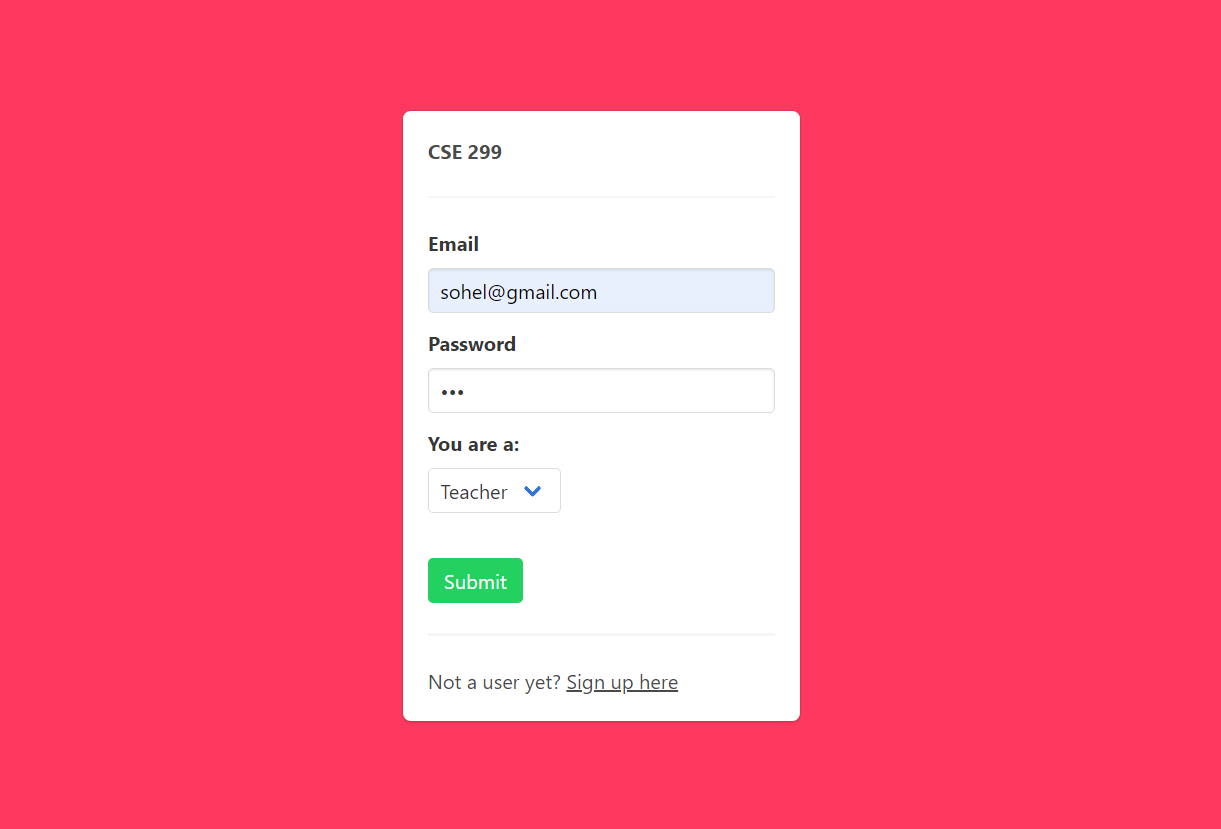
Github project link: https://github.com/nsuspring2019cse299sec2/Group-4

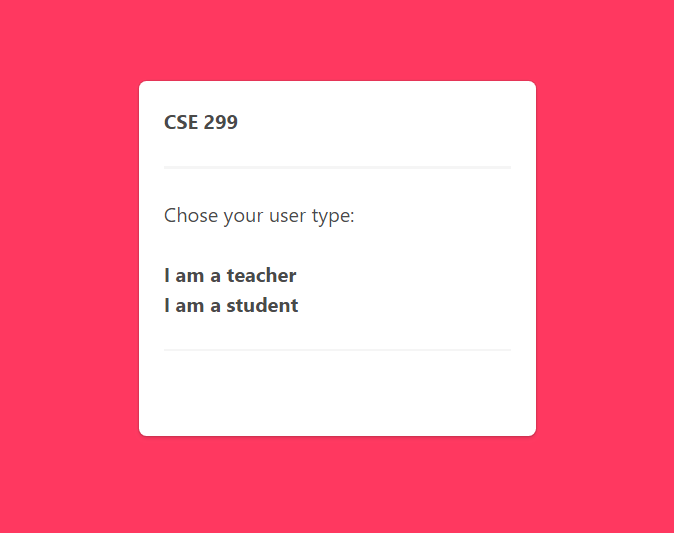
Trello board link: https://trello.com/b/0G7XSZ7g/quiz-web-app

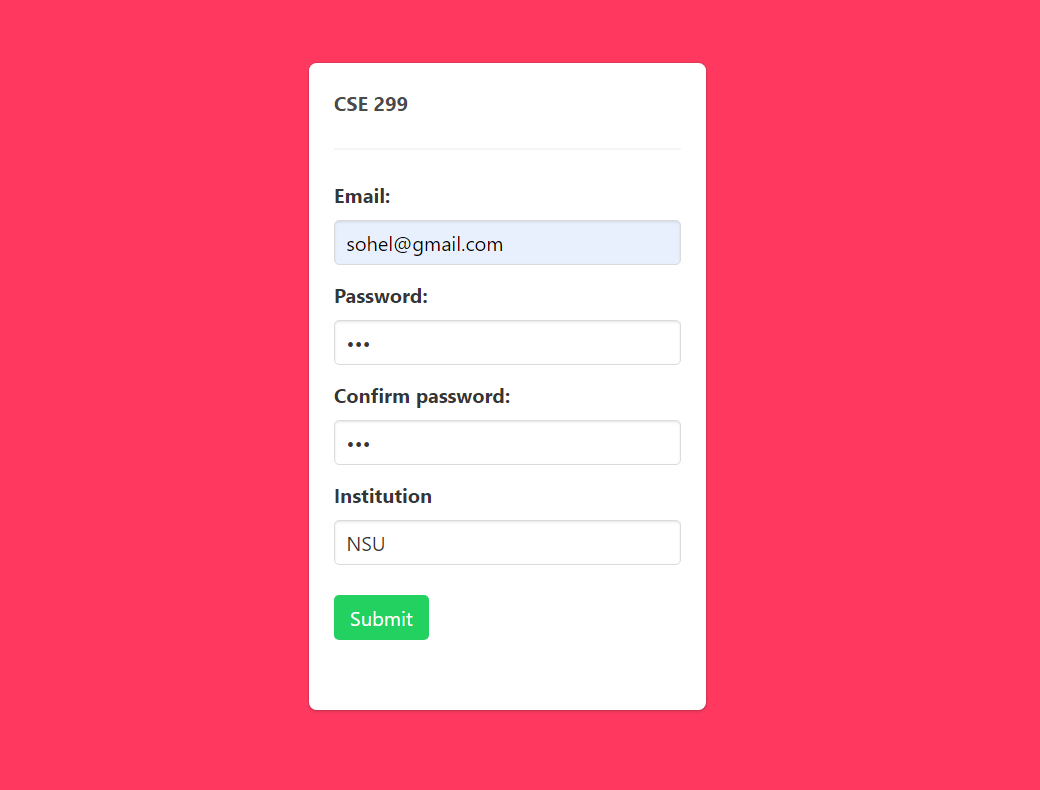
Slack channel link: https://sp19cse299sc2grp4.slack.com/

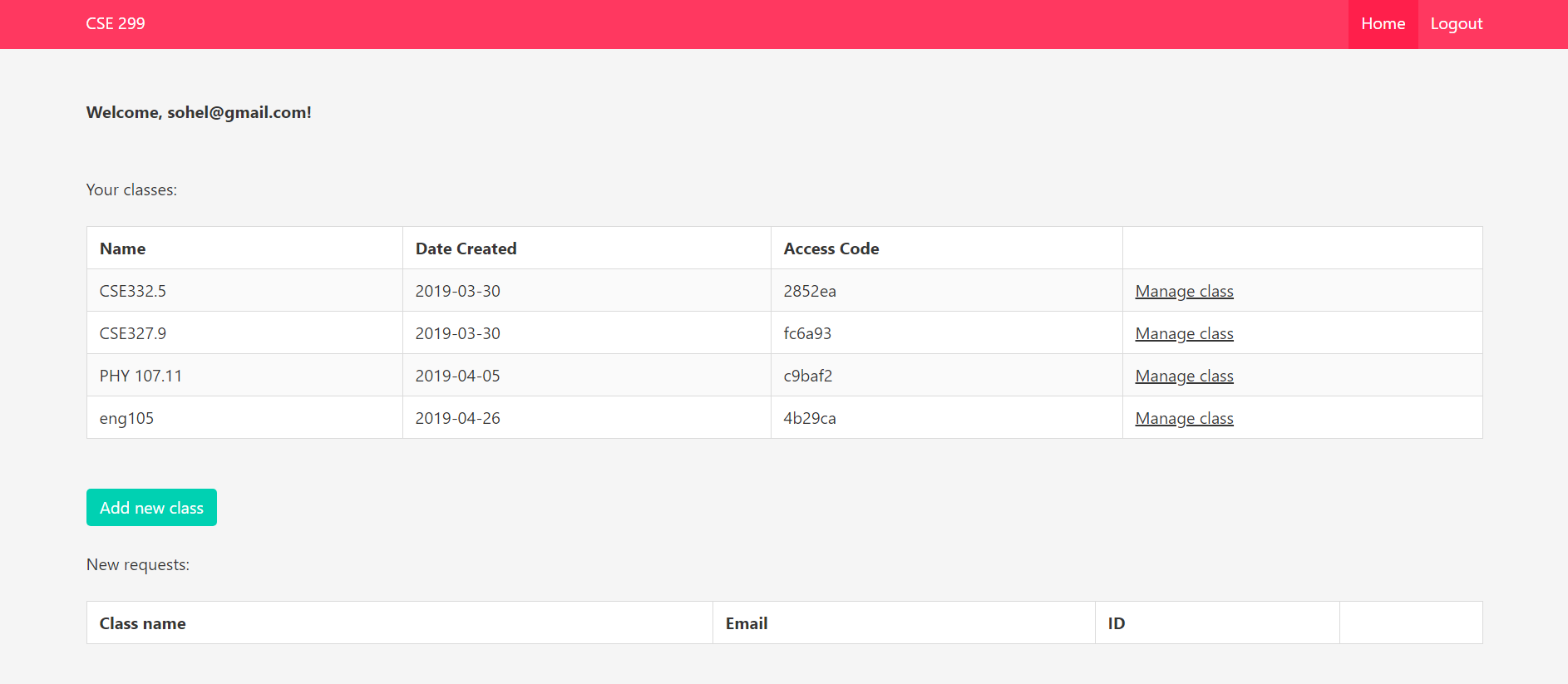
User pathway as a teacher:

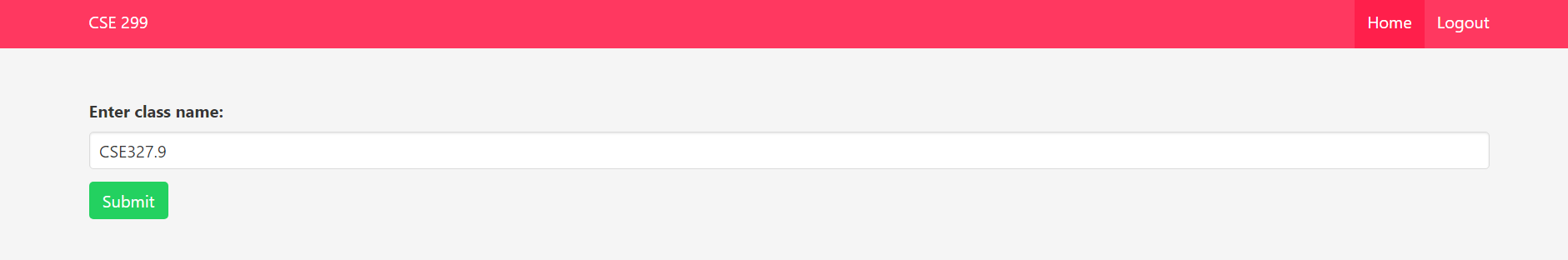
1. Login – The teacher enters his registered email, password and user type for logging in.

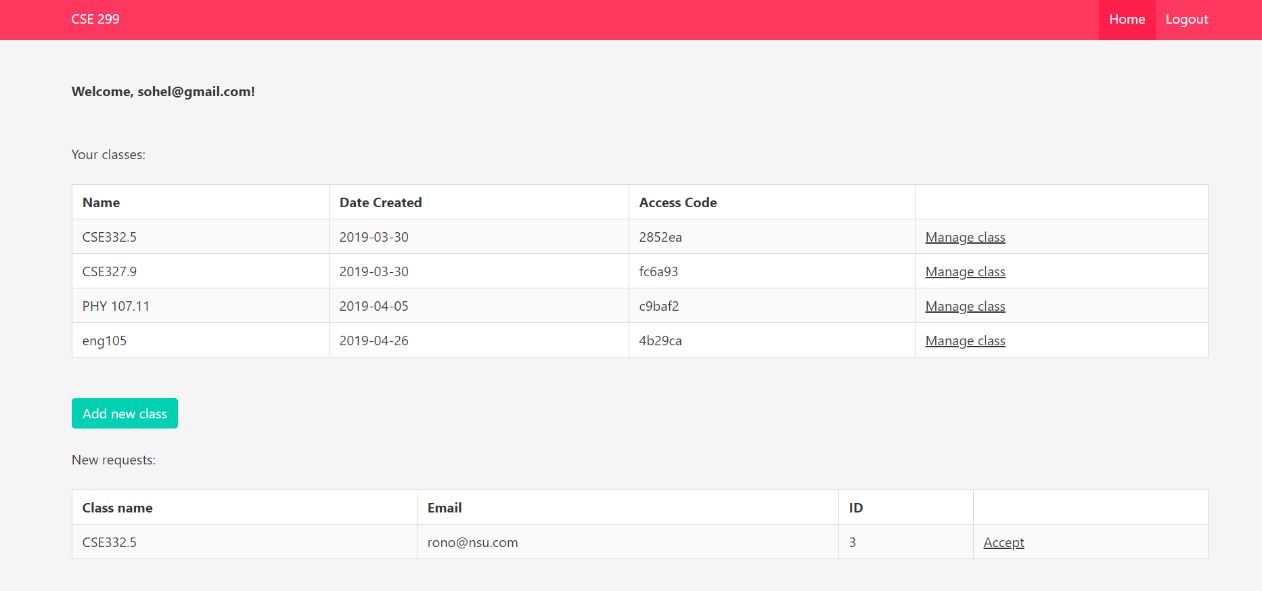


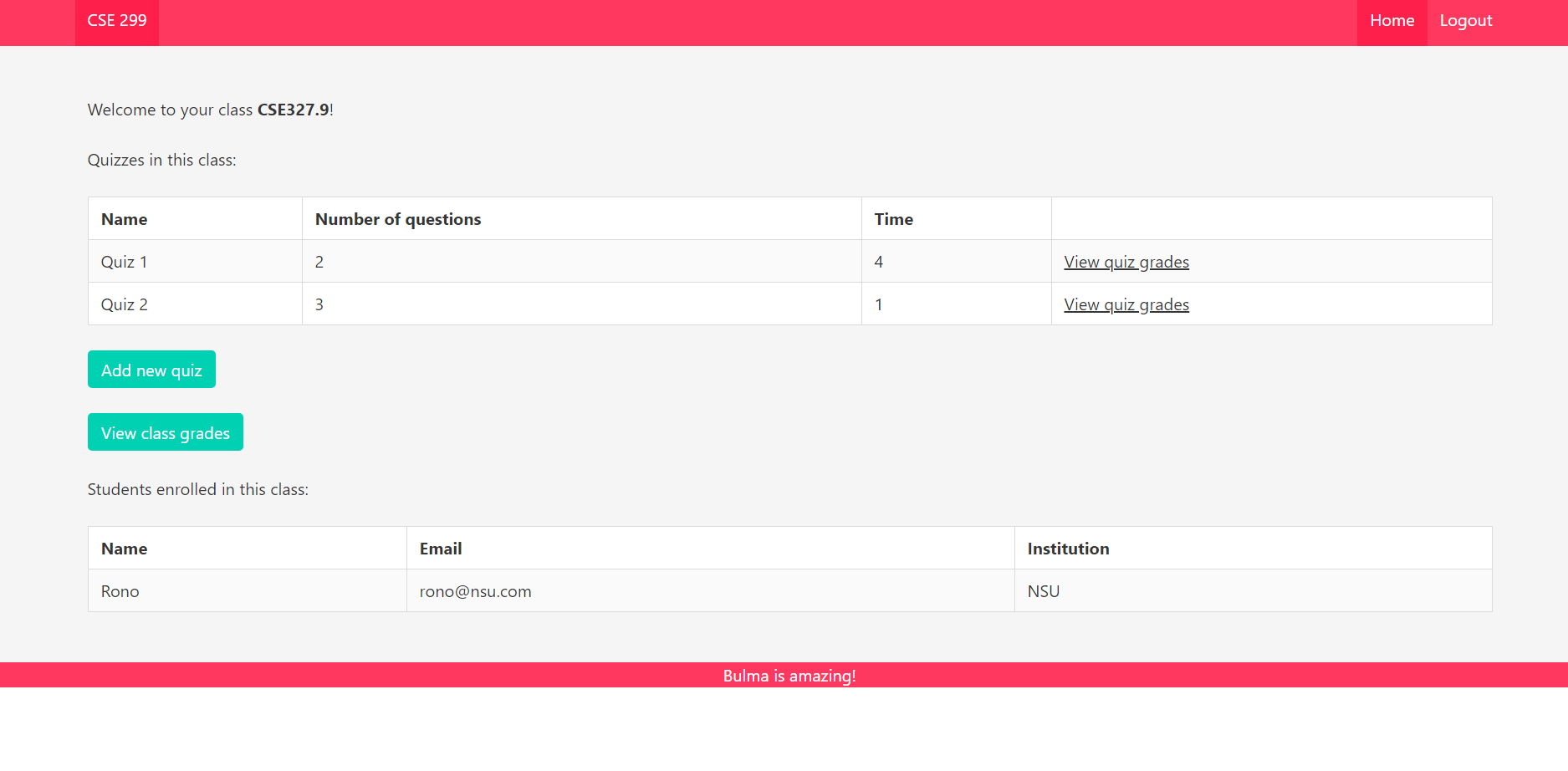
1. Registration – If a teacher doesn’t have an account then he can register for it in the “Sign up here” section of the login page. Then he chooses his user type and provides his email address, password and institution name to complete registration.

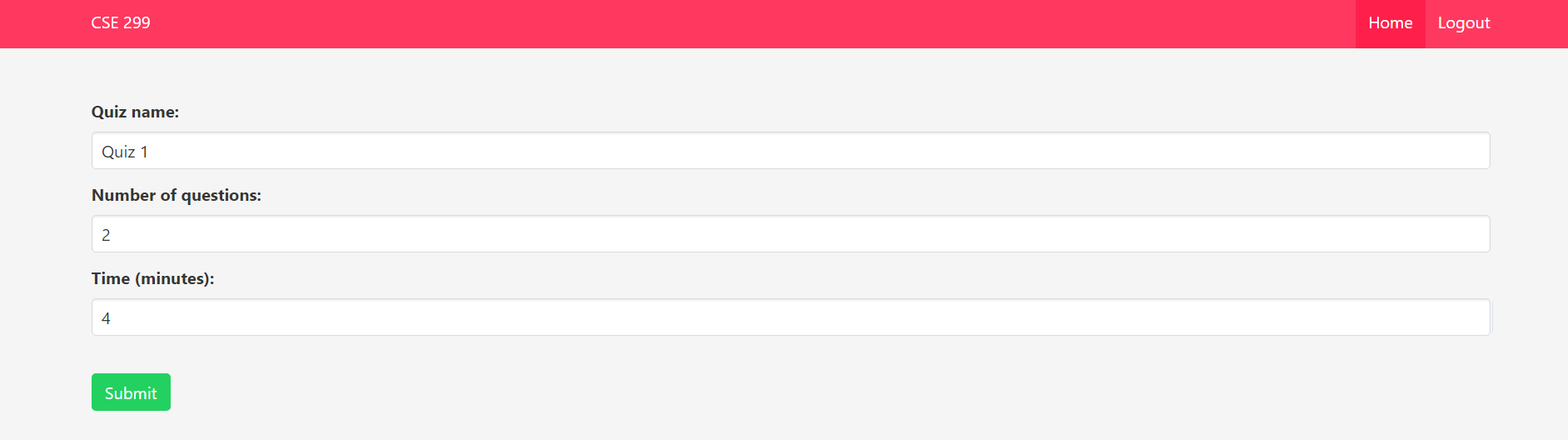


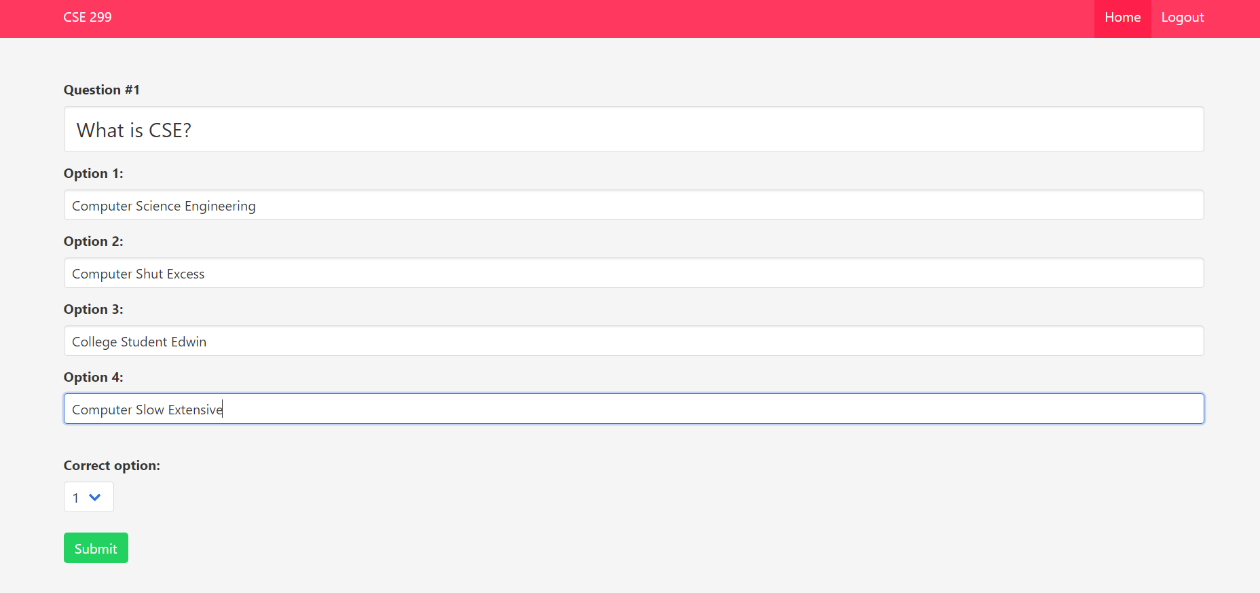
1. Add new class – After logging in as a teacher he will be able to create new classes with a name of his choice. This will generate a code as an access key which uniquely identifies the class and with which the students can join the class. 



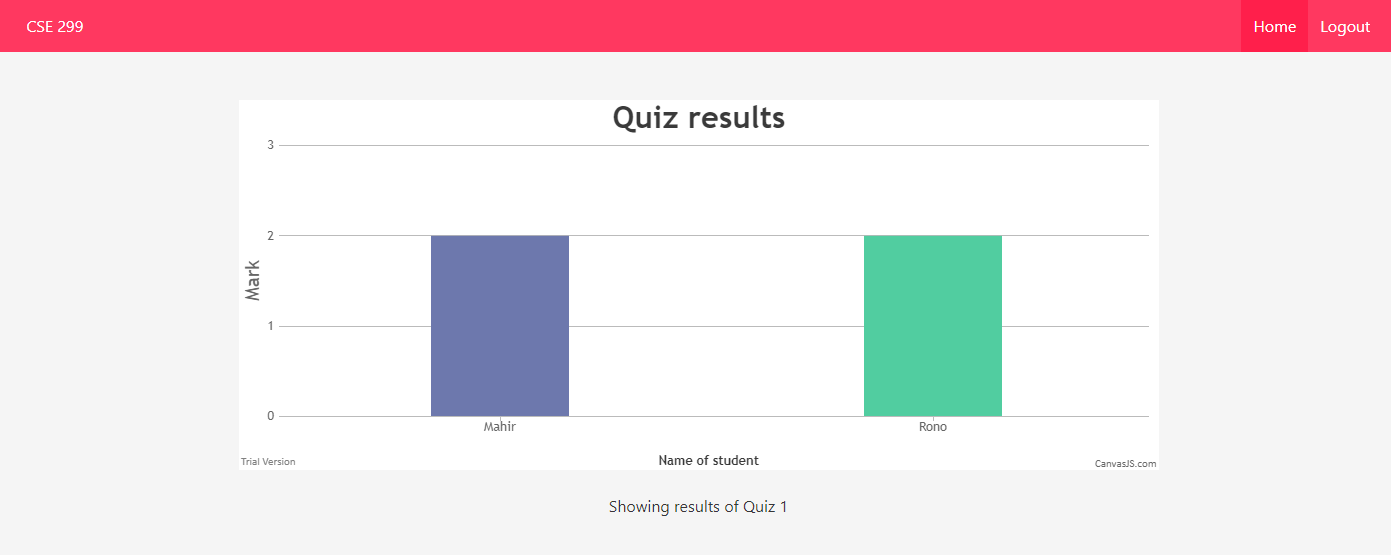
1. New Requests – Teachers can accept new student requests if he is satisfied with the student’s ID shown in the request. The student ID can be checked by the teacher to ensure that unauthorized users do not get into a class.
2. Manage class – Clicking on manage class in the landing page brings the teacher to the landing page of that particular class. Here, teachers will be able to add new quizzes, see all the quizzes in the class, view class grades and also a list of the students that are enrolled in the classroom (along with their email and institution).



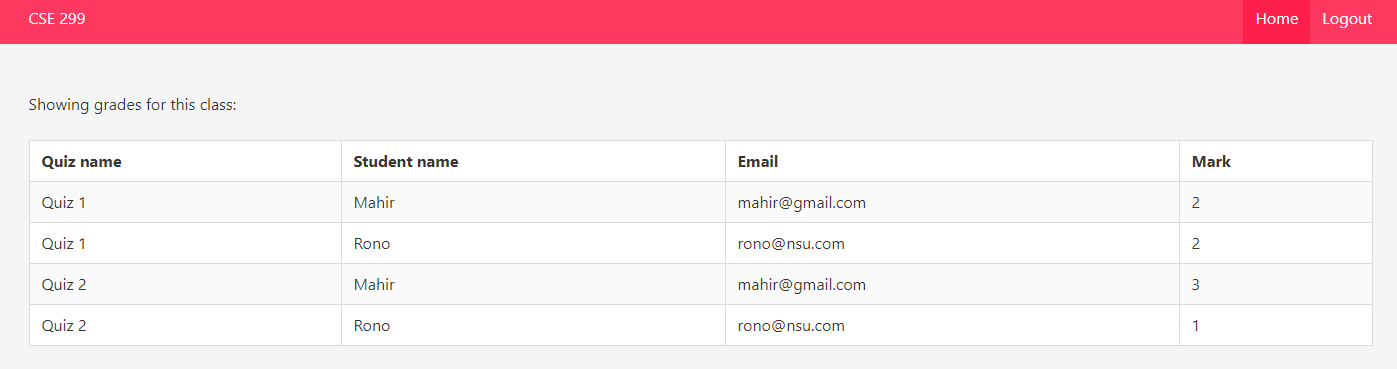
1. Add new quiz – If the teacher clicks on “Add new quiz”, he will be able to create new quizzes by giving the quiz name, number of questions and a time limit (in minutes). After that the teacher will add the questions and correct answer for it to successfully add a new quiz. 



1. View quiz grades – In the ‘view quiz grades’ section the teacher will be able to view the grades of every student who have taken the quiz as a bar chart.



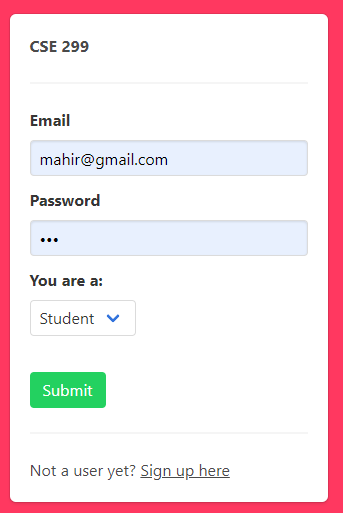
1. View class grades – In the “View class grades” section the teacher will be able to view the grades of every student who has taken any quiz in the classroom in a tabular form.



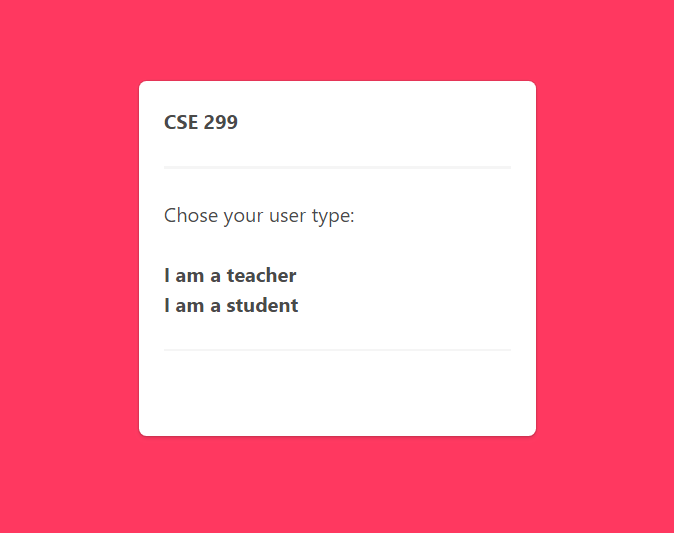
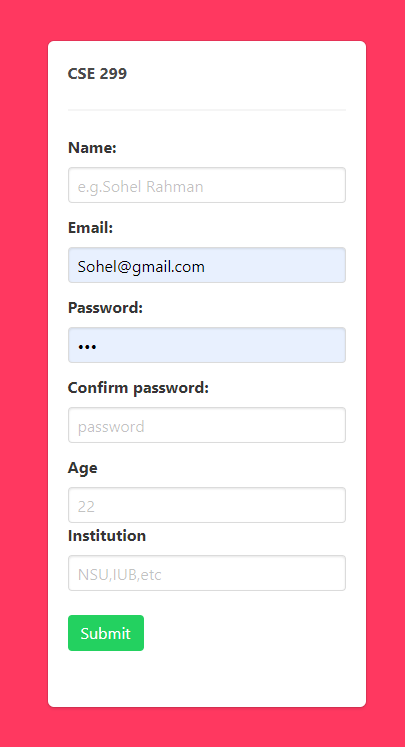
1. Home & Logout – The teacher can go to their profile homepage by pressing the “Home” button in the navigation bar present at the top of every page and can sign out by pressing the “Logout” button.

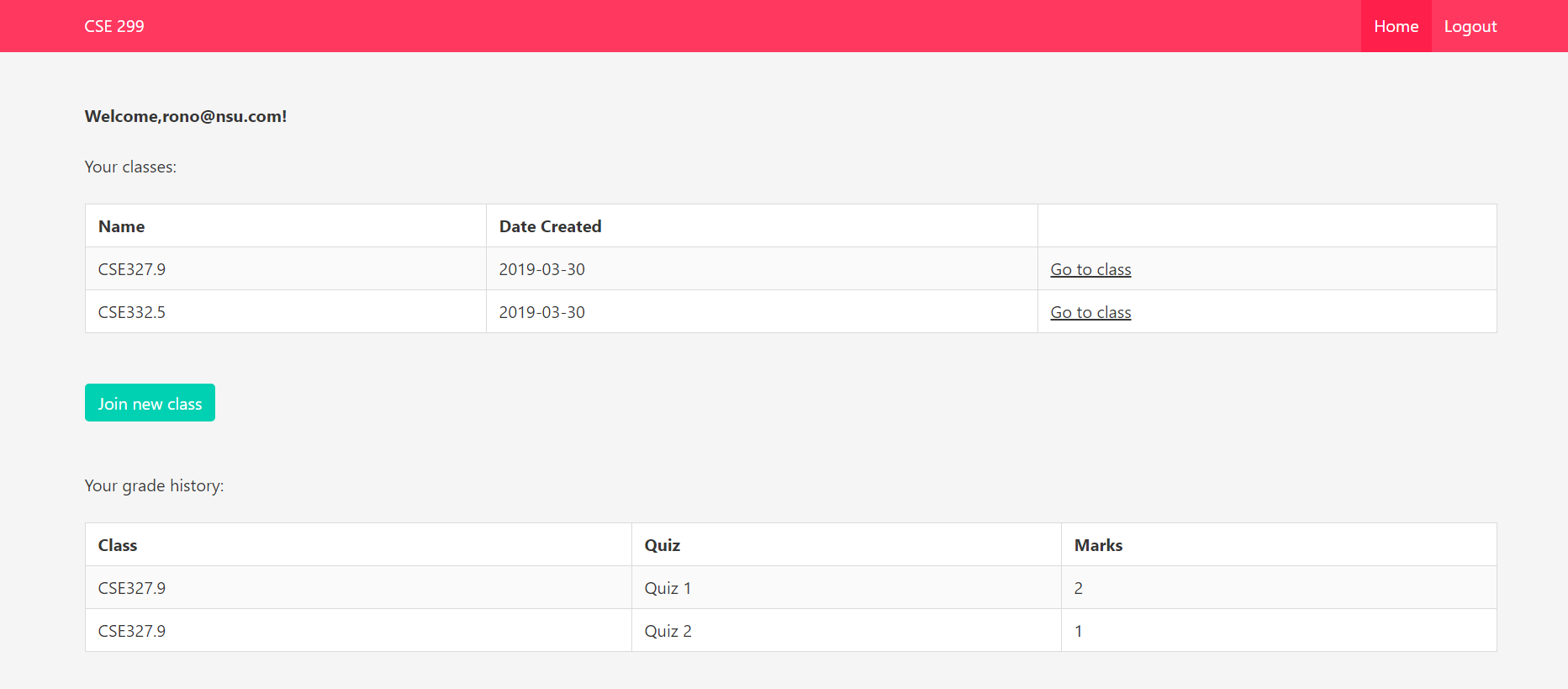
User pathway as a student:

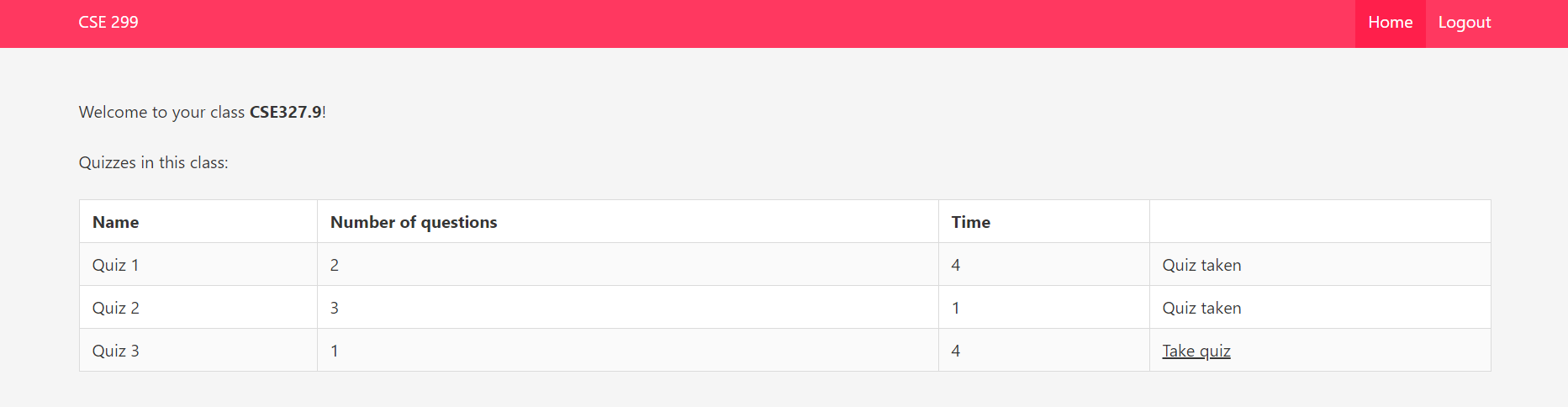
1. Login – Enter you registered email, password and user type for logging in.



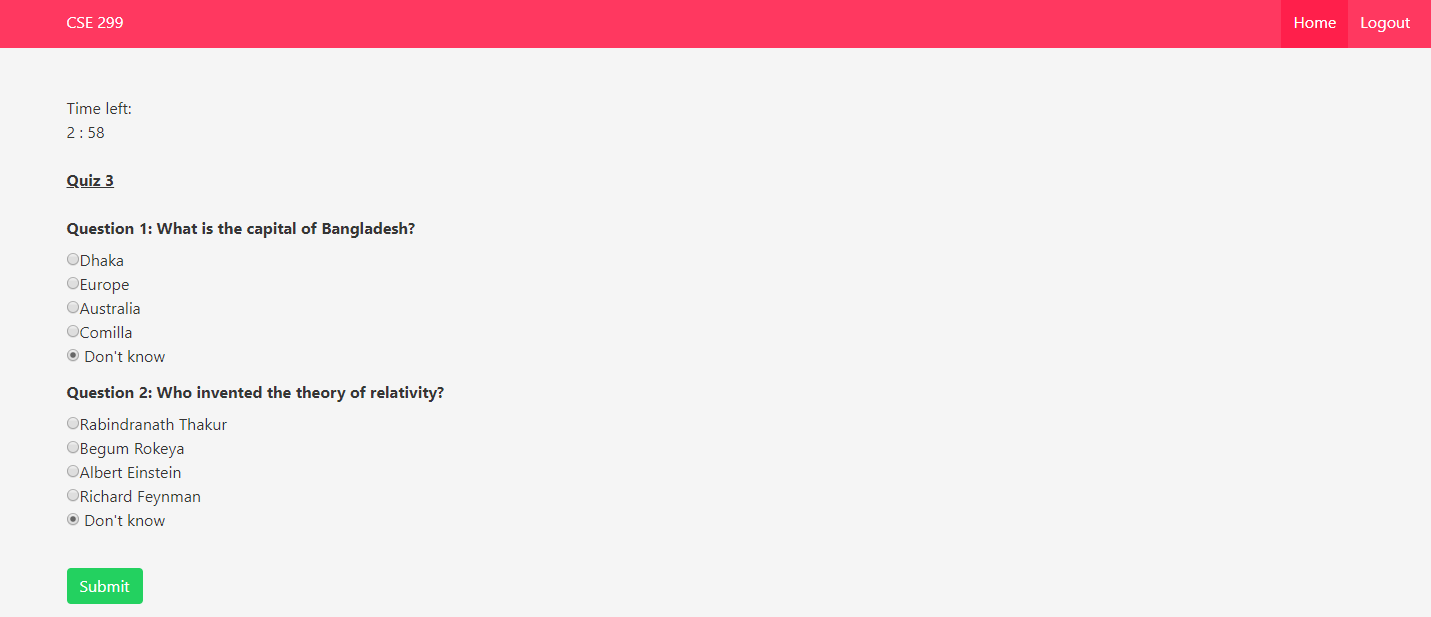
1. Registration – If you don’t have an account then register for it in the “Sign up here” section of the login page. Choose your type of user and provide your email address, password and institution name to complete registration.



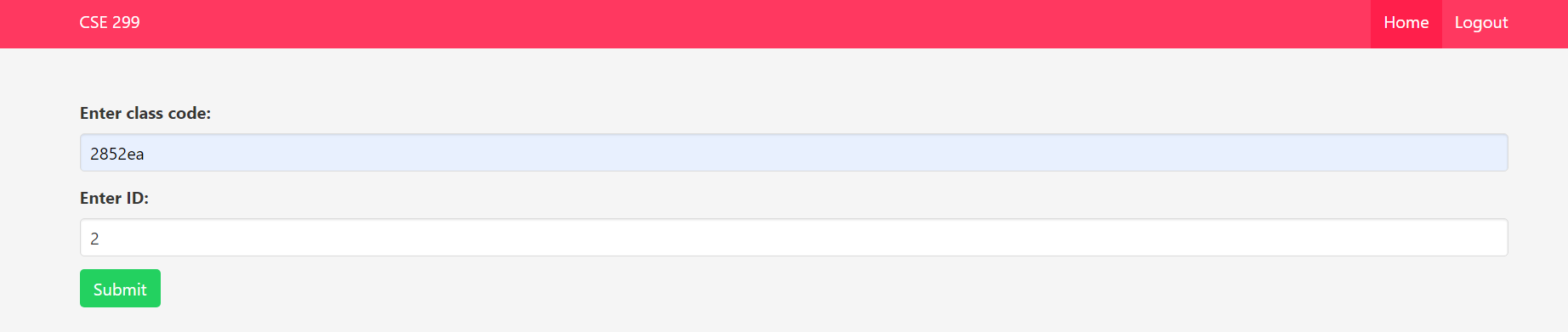
1. Home Page – At the student home page the student can see the classes that he is enrolled in, join a new class and also see all his grade history. 
2. Classroom – On the home page the student will have to click on ‘Go to class’ to enter a certain classroom. Inside a classroom, he will be able to see the quizzes in the classroom and take a quiz (if he hasn’t taken it before).



1. Take quiz - Once the student clicks on ‘Take quiz’, he will be shown the quiz questions, their respective options, as well as the time-remaining. If the time runs out, the student’s selected response (or an empty response) is automatically submitted to the database for storage. The system automatically marks his quiz and stores his marks.



1. Join new class – The students can join a new class from their home page by pressing the “Add new class” button in the home page. Student have to give the access code of the class and class ID in order to join the class.

\*\* The student will successfully join a class only after the joining request is accepted by the teacher of the class.  


1. Home & Logout – The student can go to their profile homepage by pressing the “Home” button in the navigation bar present at the top of every page and can sign out by pressing the “Logout” button.