

Smart Learning Platform

*A Project Report Submitted
for the Open Ended Lab/Project
(Course No.: ID 3801)*

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CERTIFICATE

*This is to certify that the work contained in this report entitled “**Smart Learning Platform**” is a bonafide work of **Abhishek Saran (Roll No. 111701001)** and **Vaibhav Jindal (Roll No. 111701029)**, carried out under my/our supervision for the course **Open Ended Lab/Project (ID 3801)**.*



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Chapter 1

Introduction

Smart Learning Platform is platform where students can solve questions, increase their ratings, give rating to each questions and also propose questions to other users as a challenge. Hence it works as a peer to peer learning platform for all of the students, TA's as well as staff at IIT Palakkad.

1.1 Deliverables

1. An interactive GUI for users.
2. Quizzes based on the preference of student.
3. Ratings/Ranking among students.
4. Rating of questions too.
5. Individual challenge quizzes made by students.

1.2 Organization of The Report

We start off with what we presented earlier for mid-term-evaluation with the features and capabilities at that time we were able to achieve.

Then we show you the work done after mid-term-evaluation which includes preferences of students based on subjects, ratings and other features.

At last we would touch upon the work we were not able to achieve but could be done for later in future. These work shall be done if the project increases to a span of year or so.

Chapter 2

Prior Work

2.1 Mid-term-evaluation

1. The student can login or register in their account.
2. After logging in he/she may attempt a quiz.

NOTE: There were no category based quizzes at that time.

3. The result is shown to the student at the end of the quiz.

2.2 Conclusion

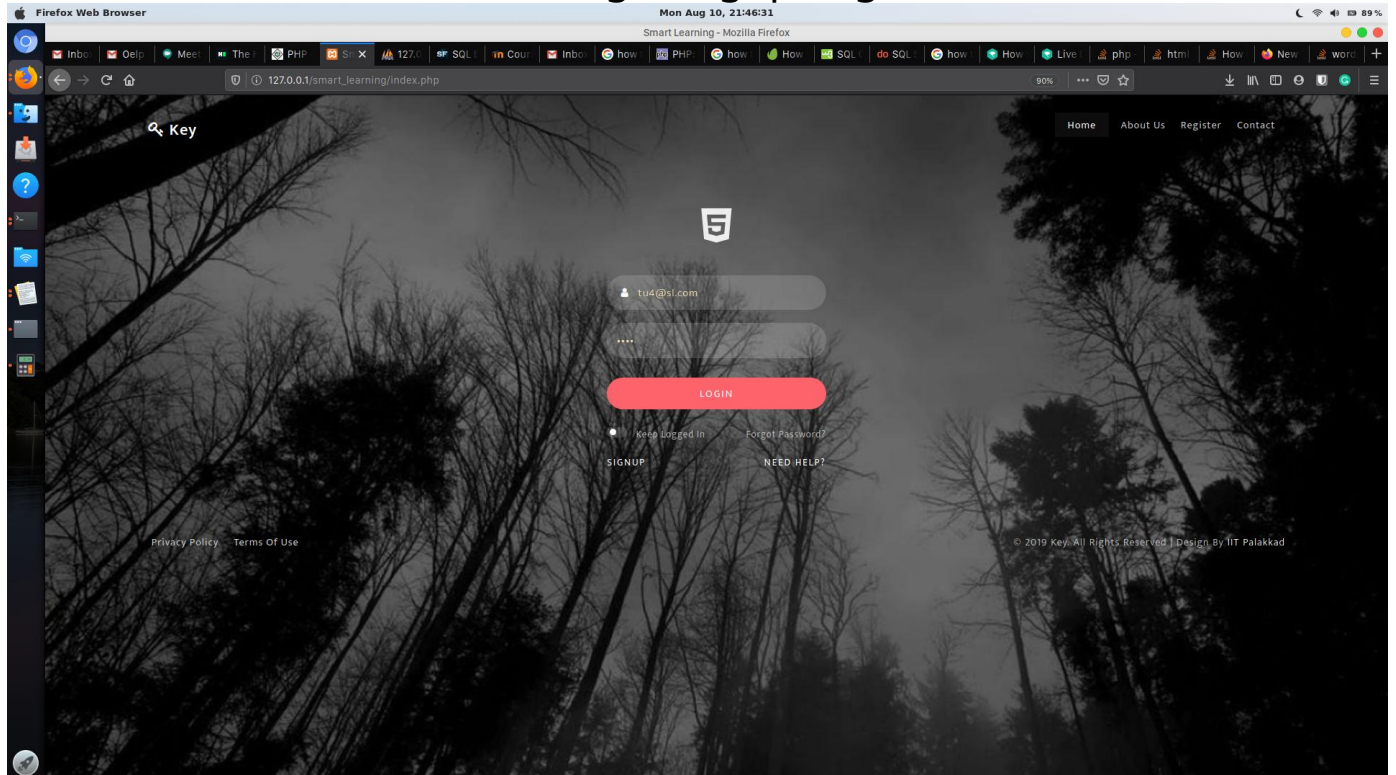
We were able to show a dummy platform where students can login and attempt a dummy quiz and get the results.

Also our system was not prone to easy hacking because:

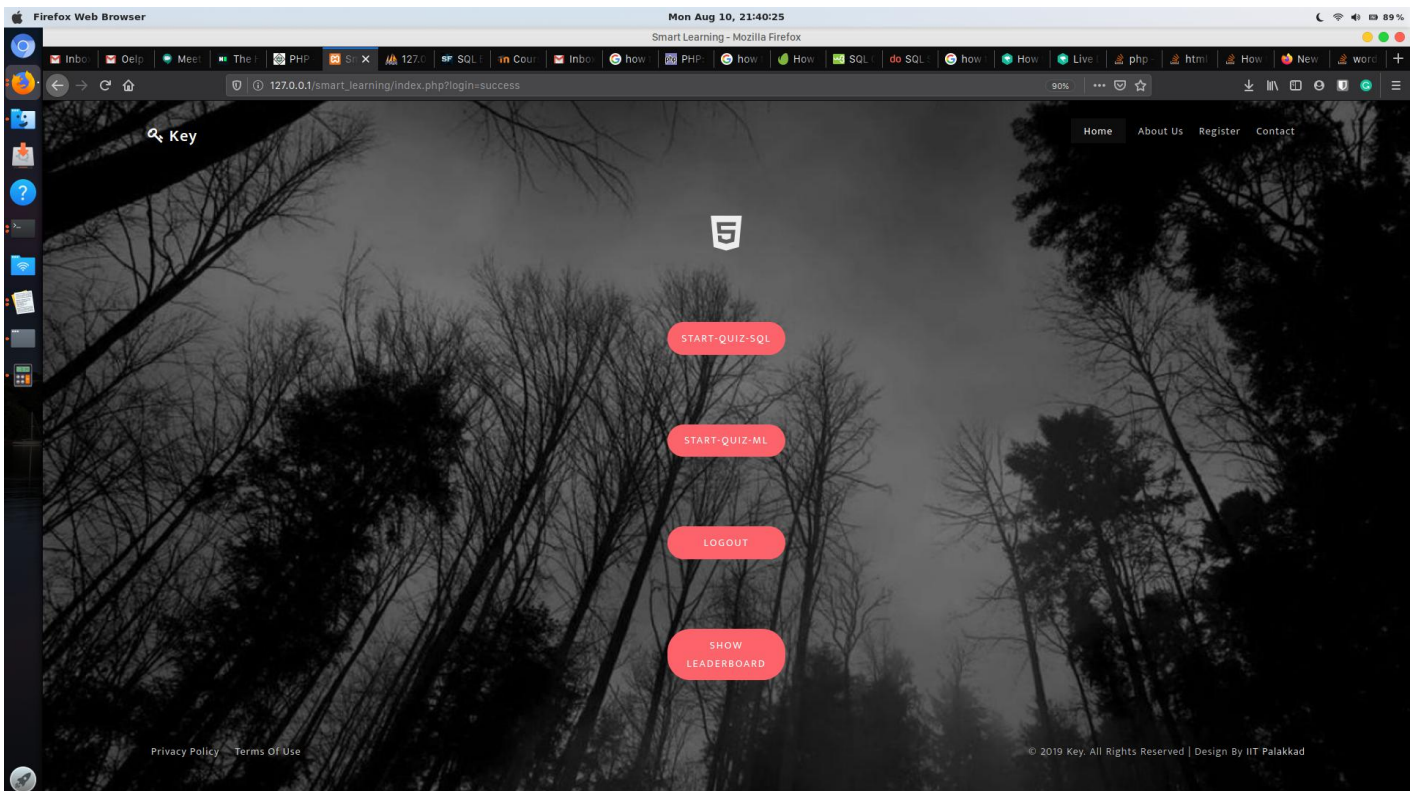
1. Our passwords are not saved as texts but as a hashed value inside the database.
2. You cannot directly go to the inner webpage without login in (means cannot break the path).
3. Emails are checked for validation prior to signup as a new student.

NOTE: Photos come in the flow from beginning to end

Login/Sigup Page



After login IN



Chapter 3

Post-Lockdown

3.1 After Mid-term-evaluation

First we started with making the quizzes more robust and wide ranging by adding more subjects as well as questions in each of them.

Then we added the functionality for multiple users to attempt multiple quizzes and have a ratings of their own. This enables a sense of work and ethics.

Now we worked upon to show and compare these ratings on a graph.

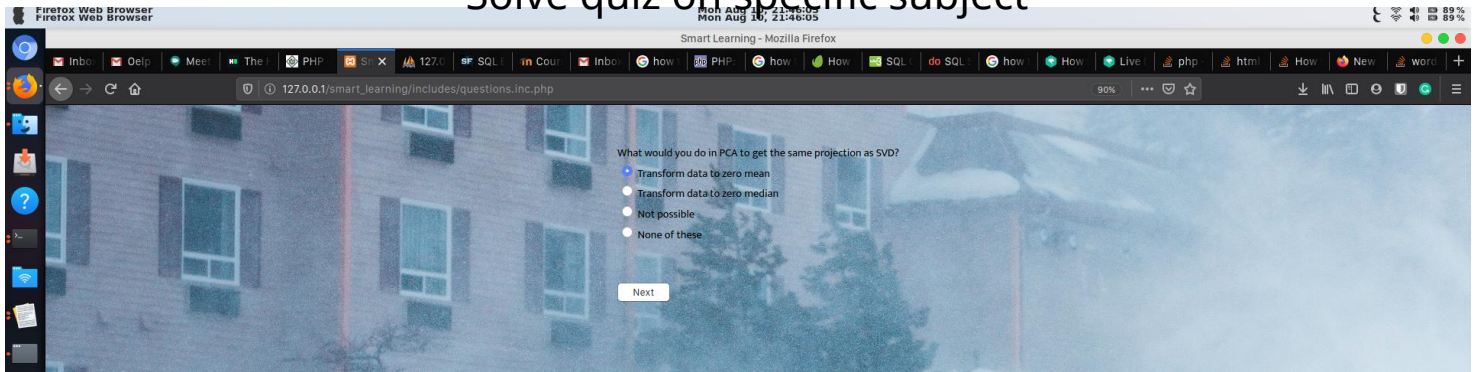
At last we added the support to add ratings to the questions by the student itself.

3.2 Conclusion

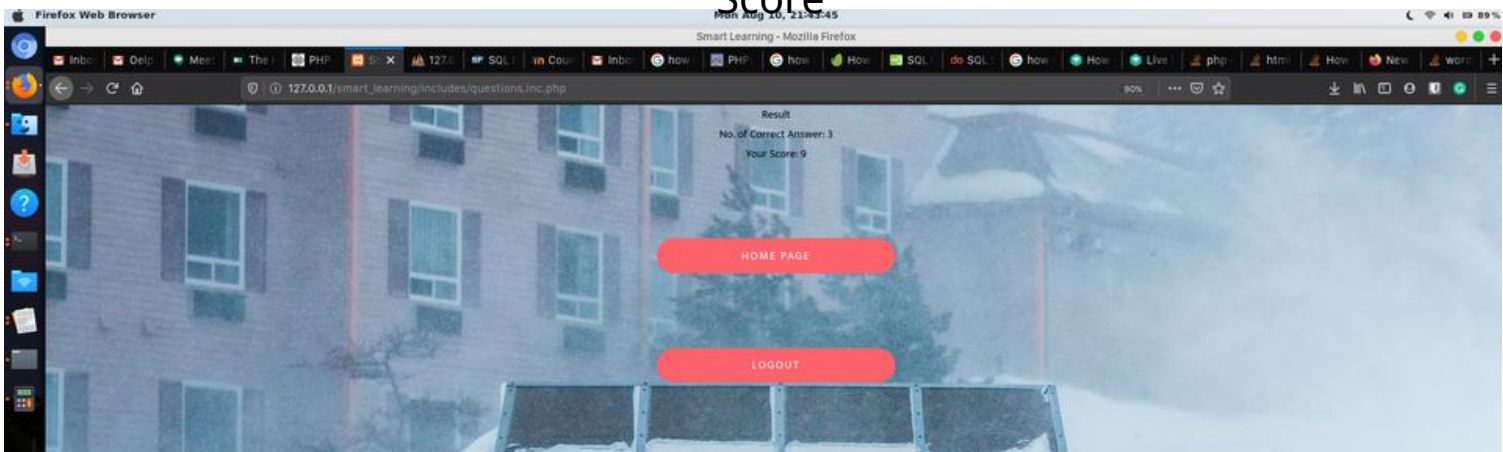
The following features have been added:

1. Students can take quiz according to the preference of subjects.
2. Students have a rating and can watch their standings against others via score.
3. Ratings of questions have also been added (Initial rating of questions).

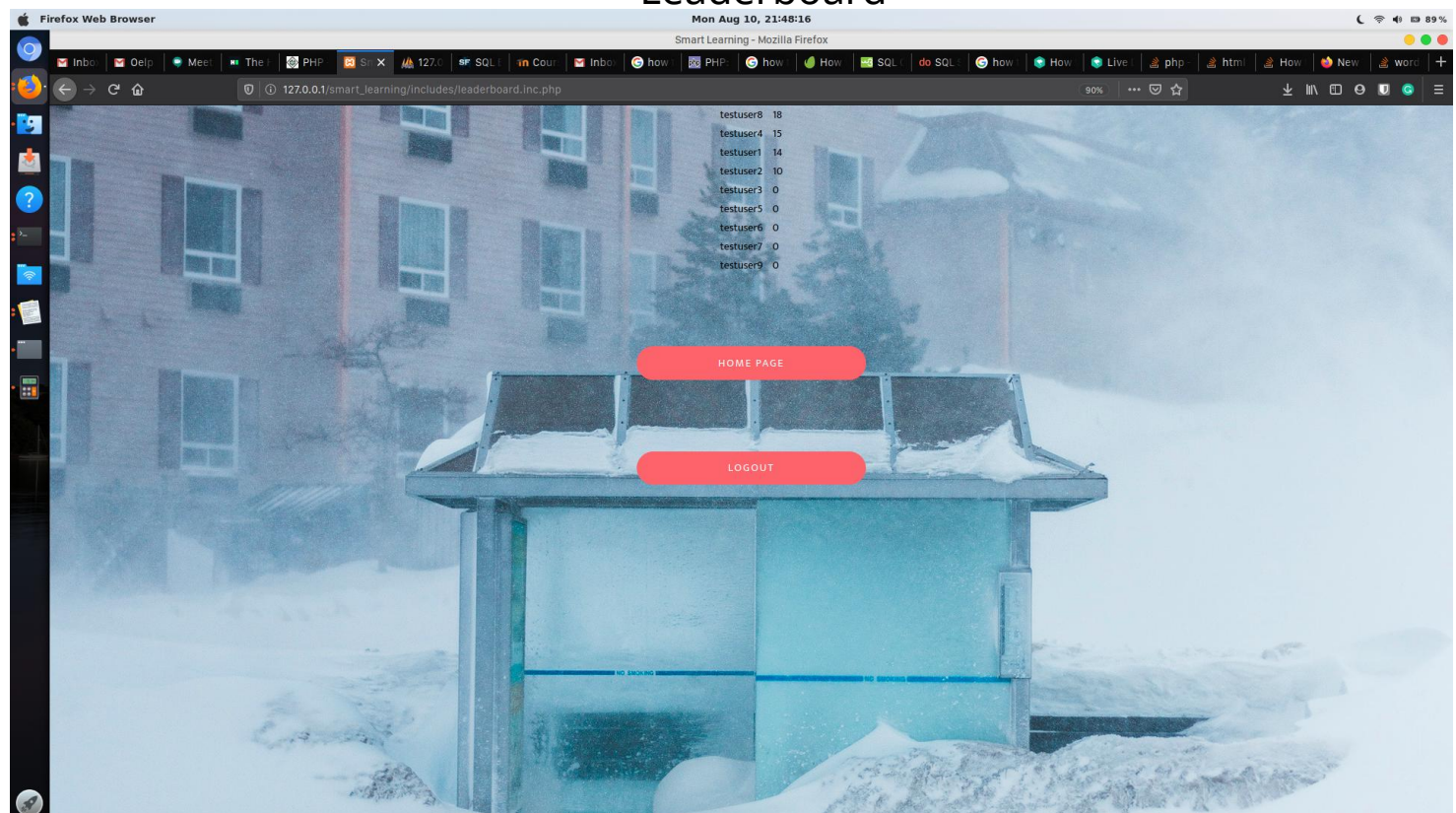
Solve quiz on specific subject



Score



Leaderboard



Chapter 4

Conclusion and Future Work

Students should be comfortable to have a quiz based on their preferences of subjects. Students will be motivated to see their performance as well as of their peers. This will keep them motivated to work harder and increase their rating and overall performance over others.

Future Work

1. Adding more questions by student itself
2. Making a set of questions by student for peer to peer challenge
3. Suggesting question based on student rating and question rating
4. Adding rating to questions by student