iClicker polling system :

Qclicker – Courses made easier

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QClicker – Courses made easier

**INTRODUCTION :**

* This website is designed to implement a classroom polling system. It consists of two main components: the iclicker software that is run by the instructor and the iclicker mobile and devices to interact with the instructor. This clicker system enables the instructor to release multiple-choice and short-answer questions and student can submit their answers using their devices which are transmitted to the software. The instructor can grade the results in real time and display them on the devices used by students. The iClicker system also allows the instructor to keep a track of attendance.

To conclude , this website allows for real-time interaction between the student and the instructor which results in interactive discussions and participation.

* We have currently created a QClicker website which shows a home page as soon as it opens.
* It gives us the option of creating an account or logging in (as an instructor or a student ). By creating an iClicker account as an instructor, it enables us to create course which will be using the iClicker software. By creating an iClicker account as a student , it enables us to enroll into courses that are required according to the course schedule.
* By logging in as an instructor , it enables us to start the class by entering the course to be started for students to join and eventually start the polling system.
* By logging in as a student, it enables us to join the class/ course and then we can enter the desired course started by the instructor and start with real-time participation.

**Methodology :** For construction of the website, we implement the use of Apache Web server and php. We manage the database with phpadmin while the server side requests are handled by Apache Web Server hosted on the local computer. For this, the server was hosted on one of the participants and we all worked on there.  We ran several test cases to verify whether the desire output was displayed or not. These can be categorised into three main categories:

* ● **Test For Functionality:** We test whether the forms are functioning correctly. We ccheck whether the forums are submitted correctly and that the information is being added to the databases.
* ● **Test for Invalid Input:** We test the forums by adding invalid inputs like empty fields, wrong datatypes, etc. The forums then should not submit and show an error message.
* ● **Test for Usability :**  We then test the forums for their usability. We ensure the forums are easy to use. We verify that the error messages are easily understandable.

**CONCLUSION / RESULTS :**

* To conclude , we have reached a point where we have completed the following features :

1. Student login option
2. Student creating a new iClicker account.
3. Instructor login option
4. Instructor creating a new iClicker account.
5. Created a dashboard for both instructor and student after logging in/creating a new account.
6. Created the option of join courses for the student.
7. Created the option of start course for the instructor.
8. Created the test runs for various features to verify if we get the desired result.

* While implementing the above featires , we came across various new and creative options to be added to the website which will be added to the website eventually as some of them are in progress while others have to be started.