PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

B.TECH. (CSE)

VI SEMESTER

UE20CS301 – Database Management Systems (Minors)

Mini-Project Report

on

EXAM MANAGEMENT SYSTEM

SUBMITTED BY

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Department of Computer Science and Engineering

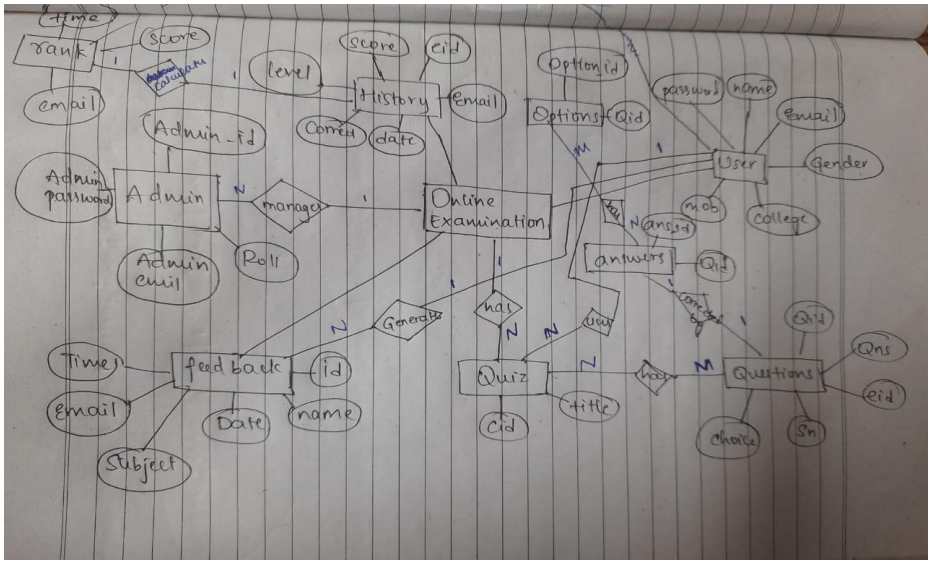
Project Synopsis:

INTRODUCTION:

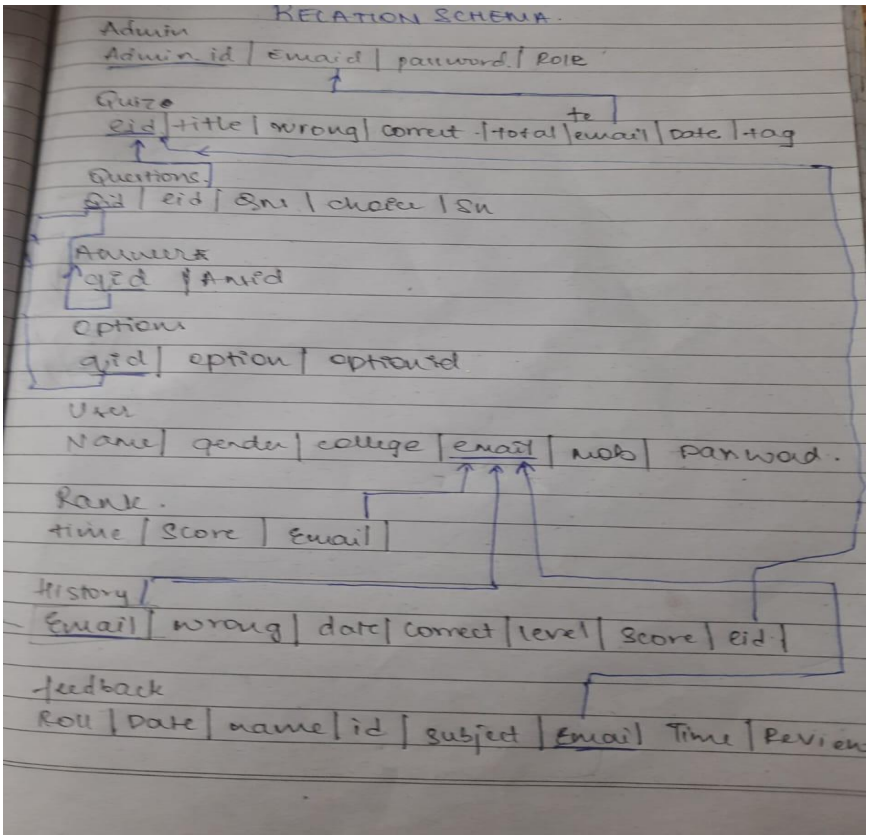
In an ***online examination system*** examine get their user id and password with his/her admit card. This id is already saved in the examination server. When examine login to the server he/she get his/her profile already register. On the certain time examine gets the message to start the examination. All answers given by examine are saved into the server with his/her profile information. ***Online examination system*** also allows to correct the answer if the examine needed to change any answer in the examination time duration, however, after the time duration any change will not allow. This also makes c checking the answer easy and error proof as computers are more accurate than man and provide fast results too. Php is a web base language so we can create an ***online examination system in PHP***.

In the world of internet, all task has been done through internet, so we have decide why Exam has not conducted through internet. For convert current exam system into digital exam system, we have build this small Online Exam system project. If this system has build in professional level then it will automate our existing examination system into digitize exam system. In this system it will required less labor force for execute system and it will be more accurate and less time consuming and at the same time we can conduct more person exam at the same time and it will publish result in a very short time. Below you can find benefits of Online Examination System. If this system has been implemented then examination will not limited in to four wall of class room, but student can part into exam from any place.

ER DIAGRAM:



RELATIONAL SCHEMA



HOME PAGE

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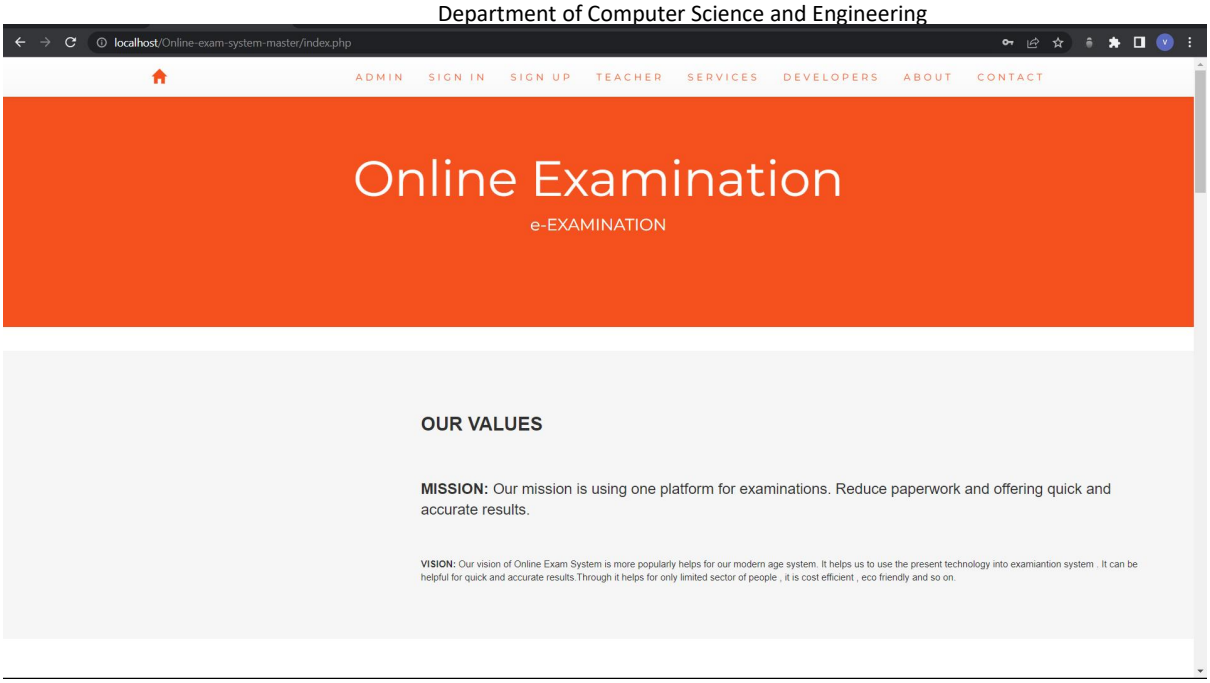
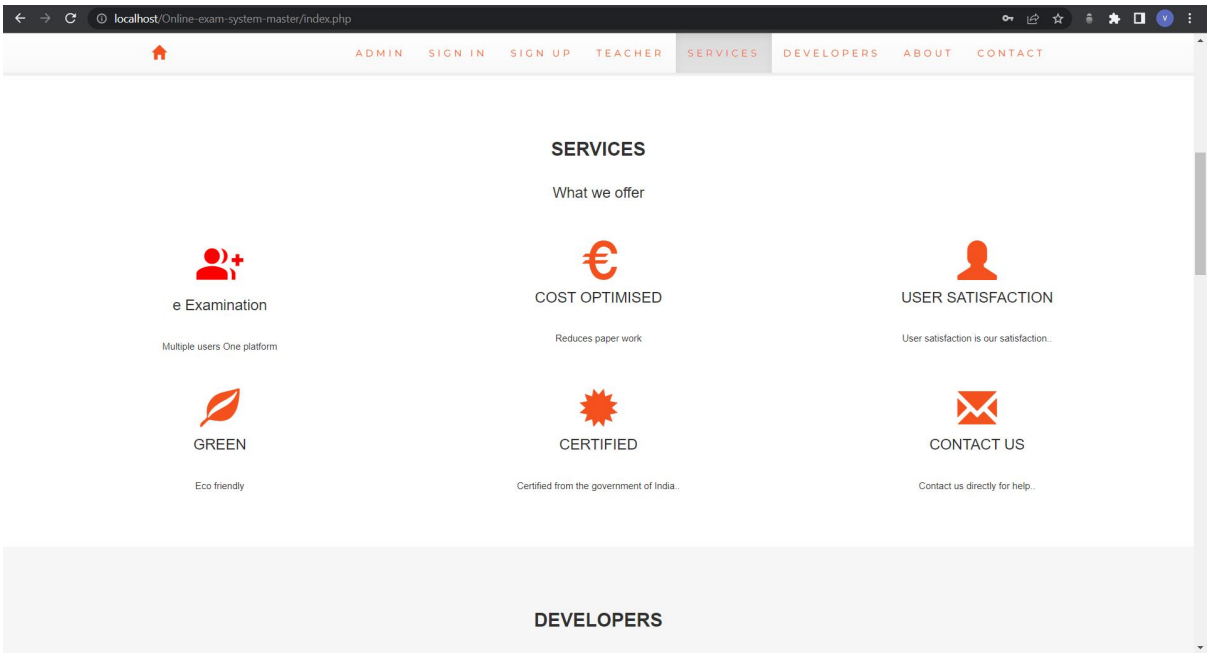


SERVICES



USER LOGIN

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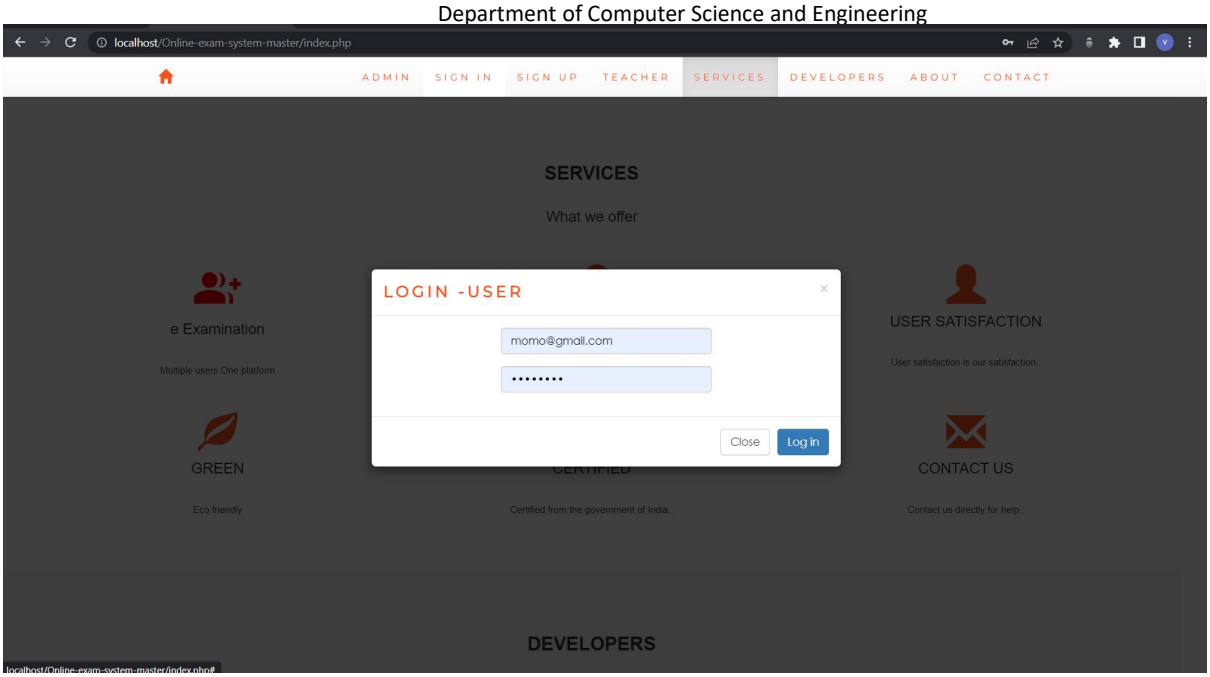
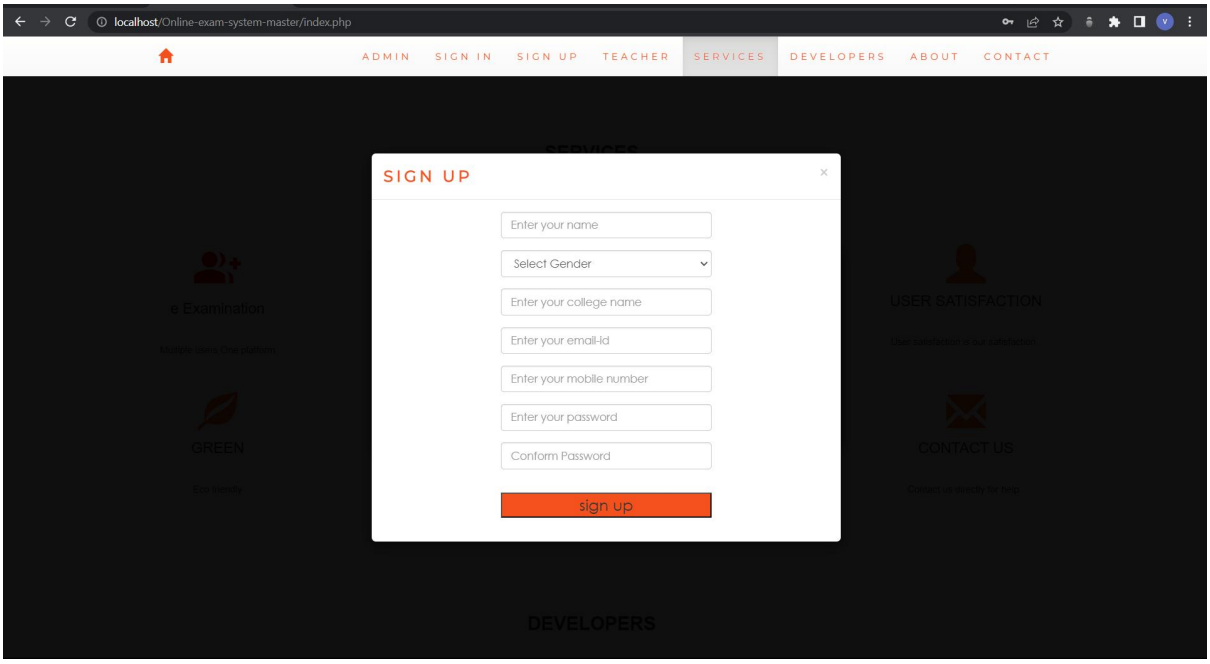


USER SIGN UP



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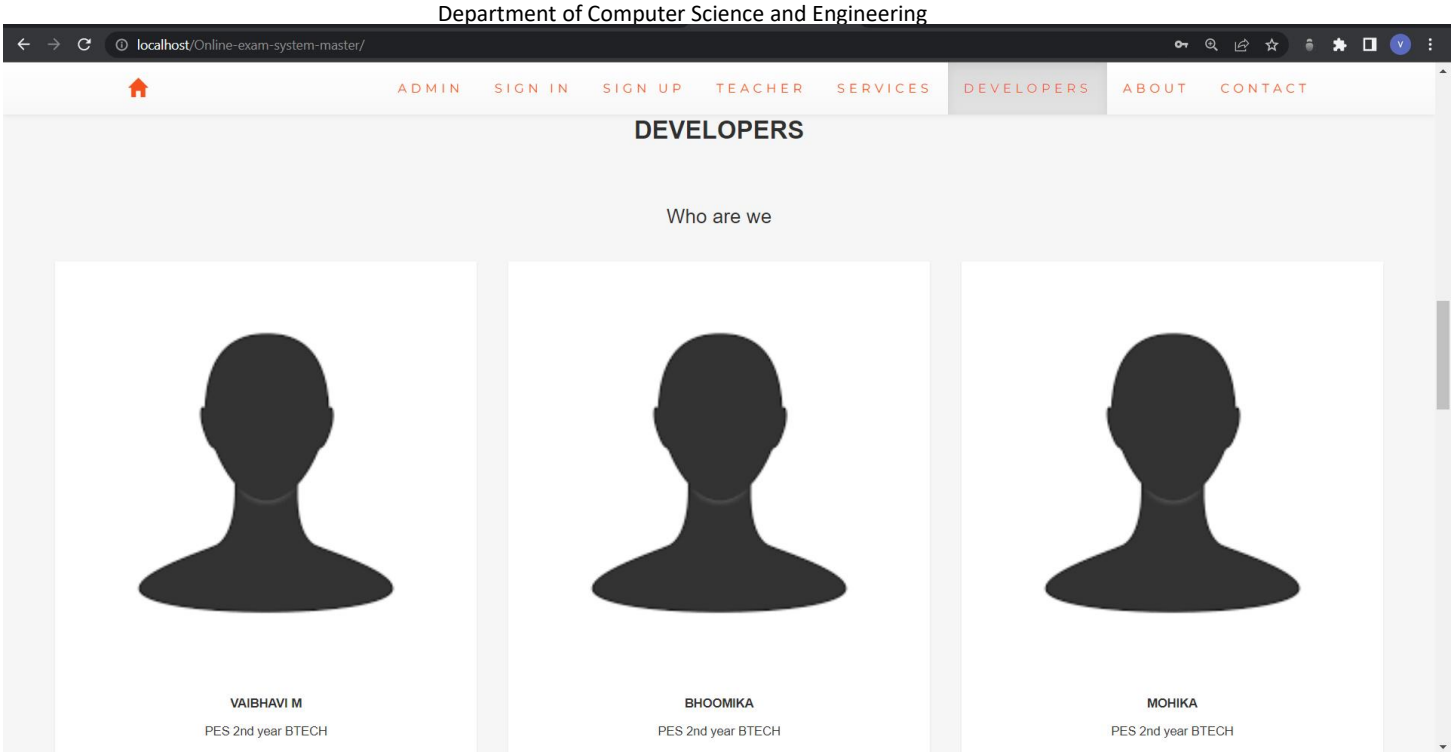
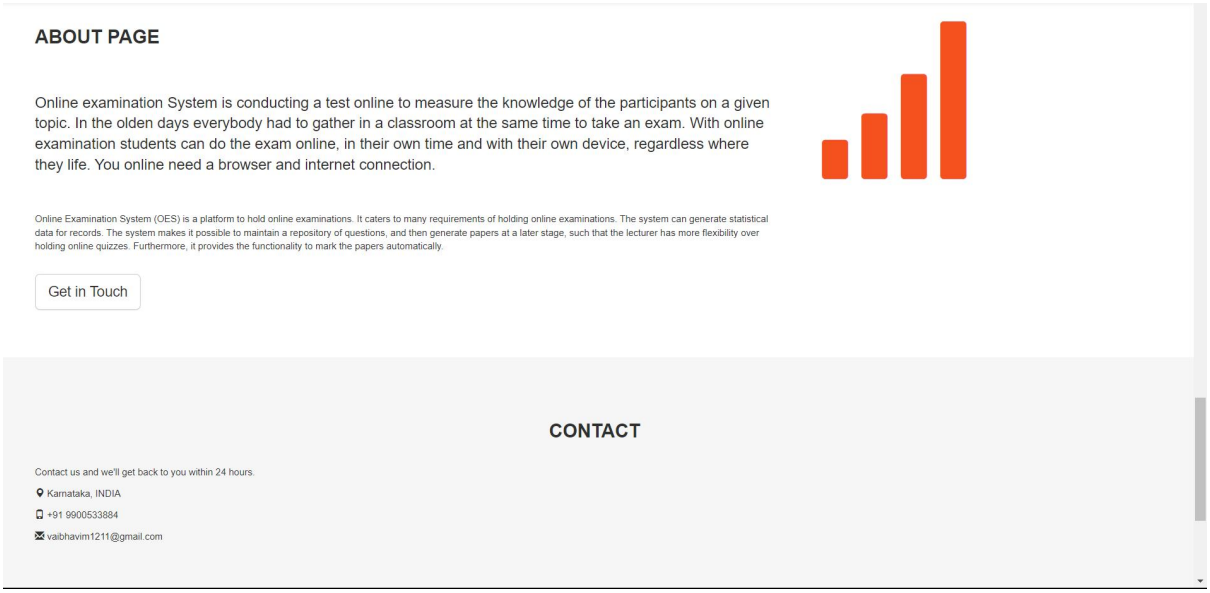


ABOUT AND CONTACT



TEACHER:

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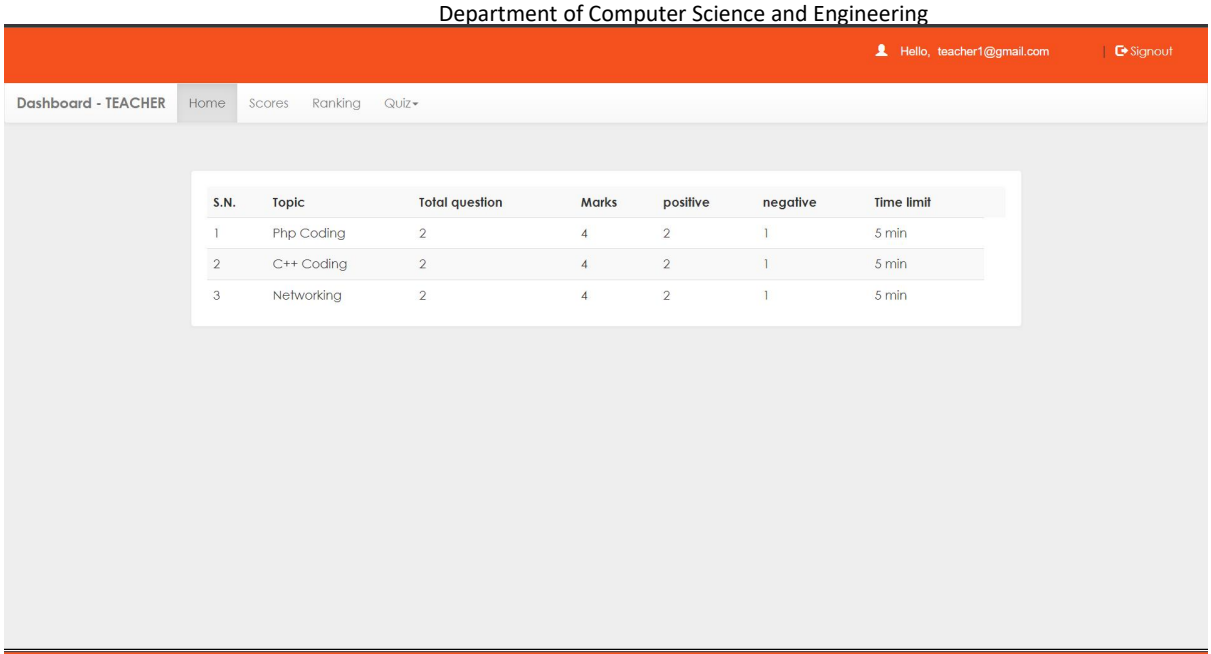
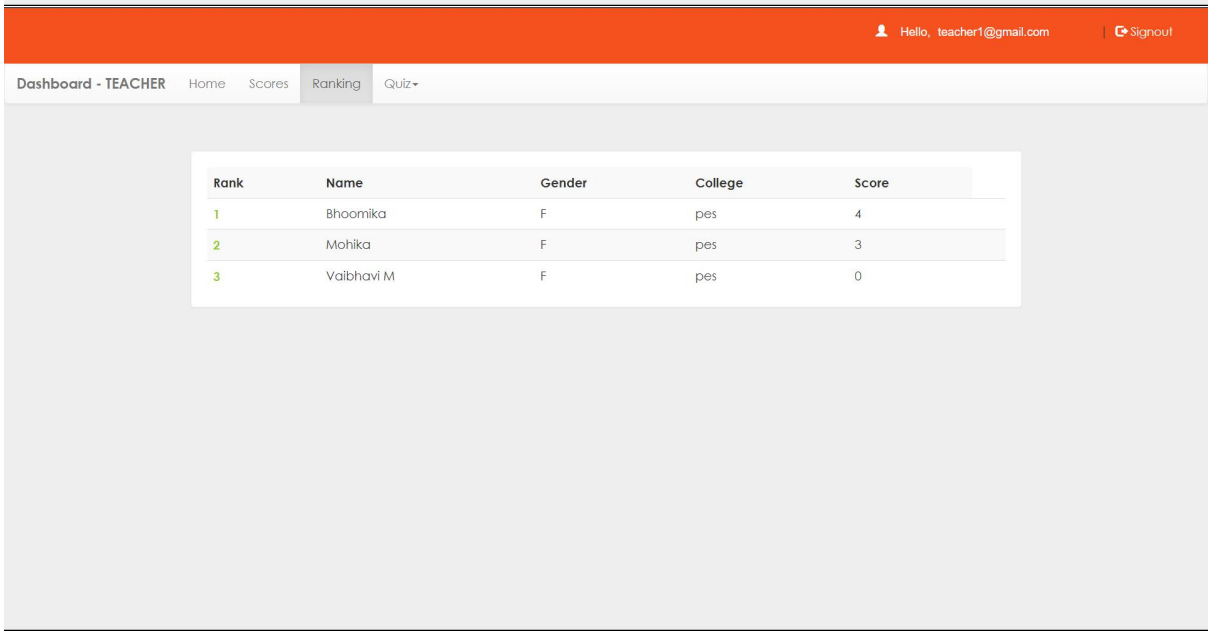
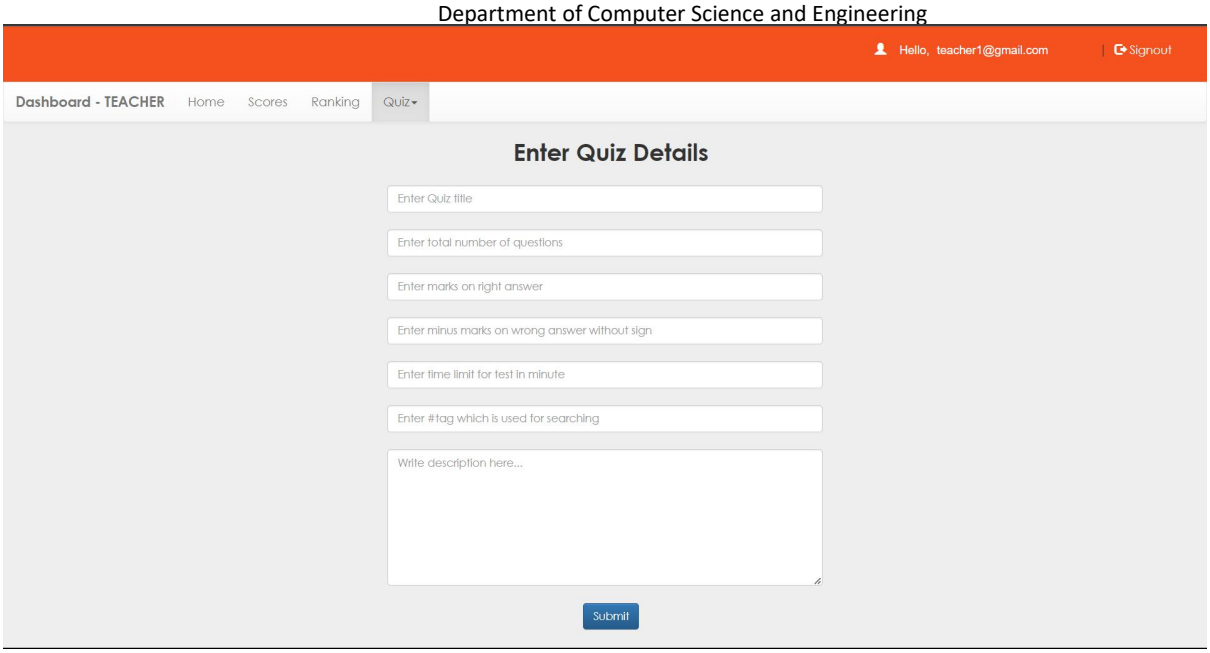
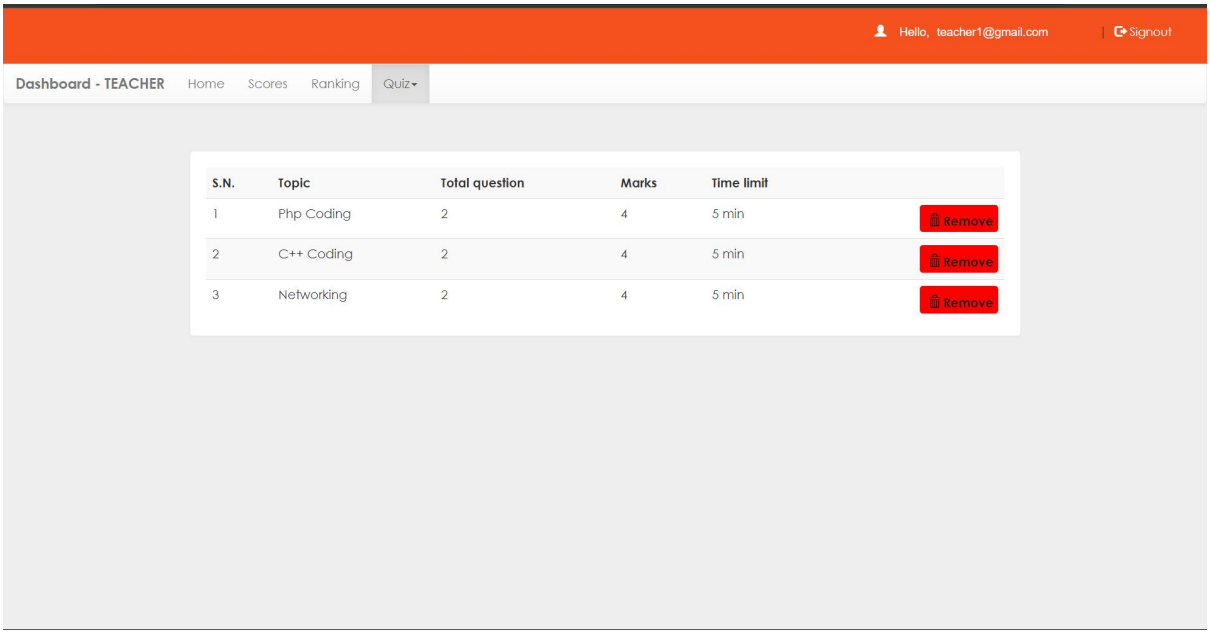




ADD QUIZ



REMOVE QUIZ



USER INTERFACE

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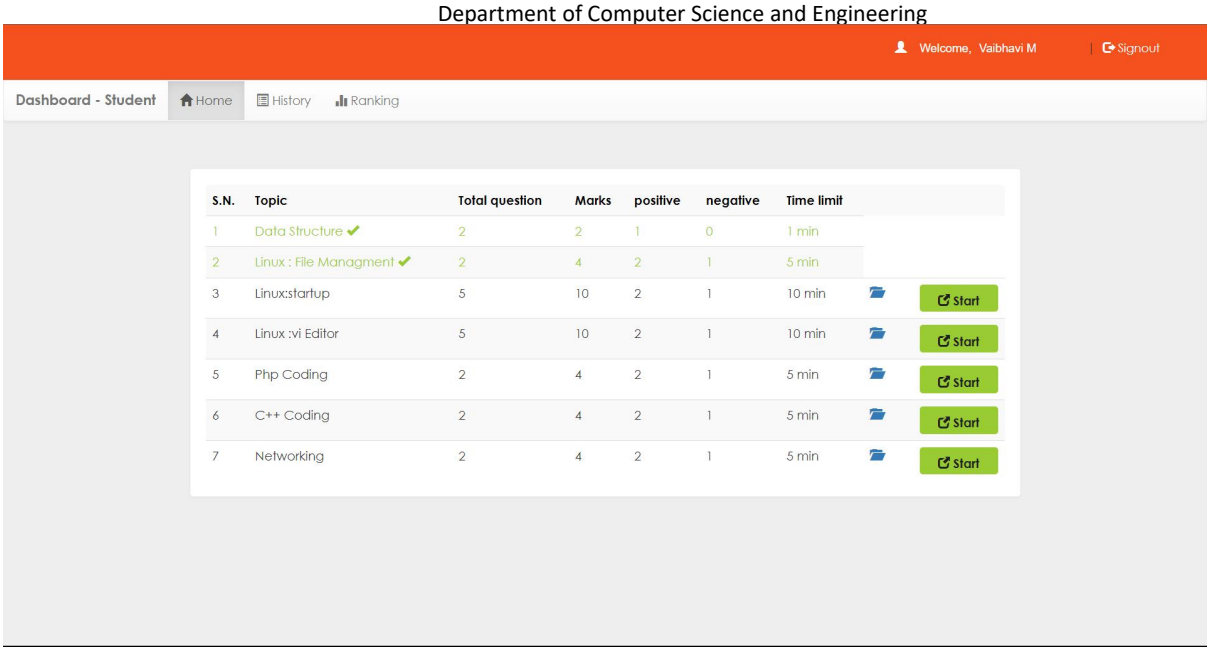
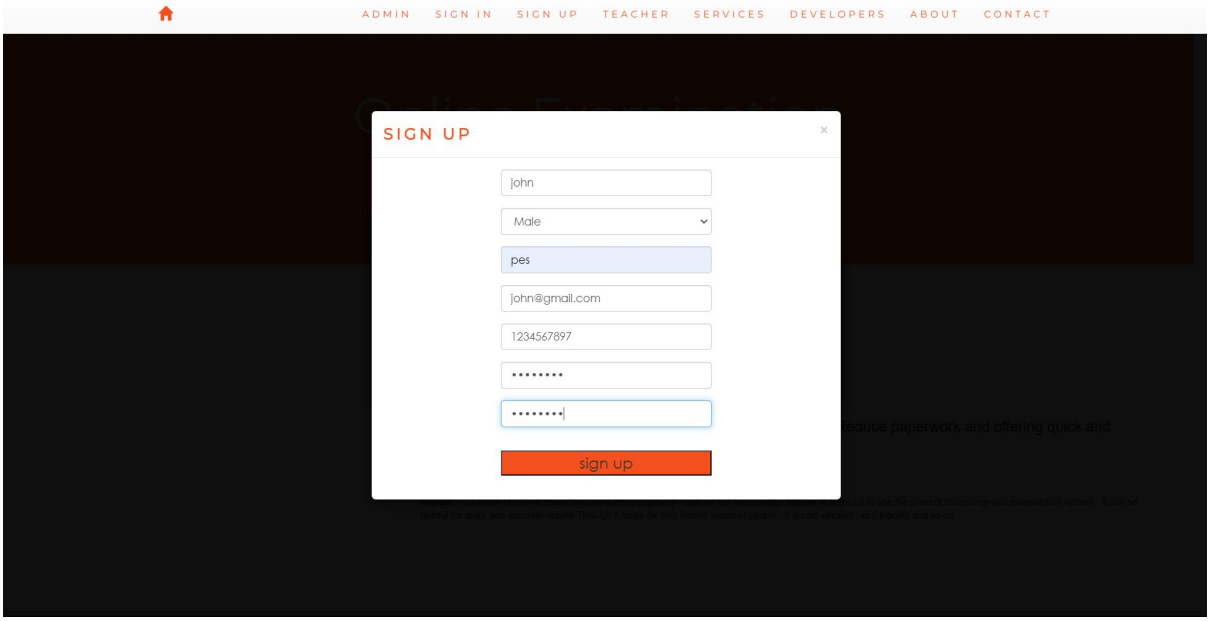


INPUT AND OUTPUT:

INPUT IN WEBSITE



OUTPUT IN XAMPP

QUERIES:

1. **SELECT ADMIN WITH PASSWORD AS HEAD**

```
SELECT * from admin where PASSWORD='head';
```

2. **INNER JOIN**

```
SELECT * from history INNER JOIN quiz on history.eid=quiz.eid;
```

3. **DATE FUNCTION**

```
SELECT * FROM history where date BETWEEN '2023-05-03' and '2023-05-05';
```

4. UNION FUNCTION

```
SELECT title from quiz UNION SELECT sn FROM questions;SELECT * from admin where
PASSWORD='head';
```

5. **MIN AND MAX**

```
SELECT min(score) as minimum_score from rank;
SELECT max(score) as maximum_score from rank;
```

4. **LIKE OPERATOR**

```
SELECT * from quiz where tag LIKE 'l%';
SELECT * from quiz where tag LIKE 'PHP%';
```

5. **NATURAL JOIN**

```
SELECT * from rank NATURAL join user;
```

6. **ORDER BY**

```
SELECT * from rank ORDER by score ASC;
```

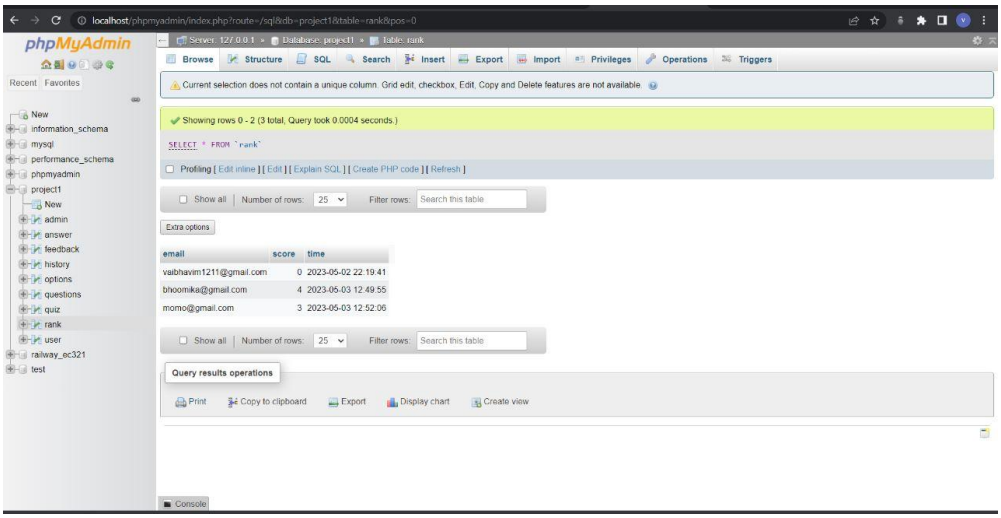
7. **FUNCTION**

```
DELIMITER $$

CREATE FUNCTION results(score INT)
RETURNS VARCHAR(50)

 BEGIN

    DECLARE sf_value VARCHAR(50);

    IF score > 3 THEN
          SET sf_value = 'pass';

    ELSEIF score <= 3 THEN
          SET sf_value = 'fail';

        ELSE
          SET sf_value= 'not available';

    END IF;
```

```
    RETURN sf_value;

END; $$

DELIMITER ;
```

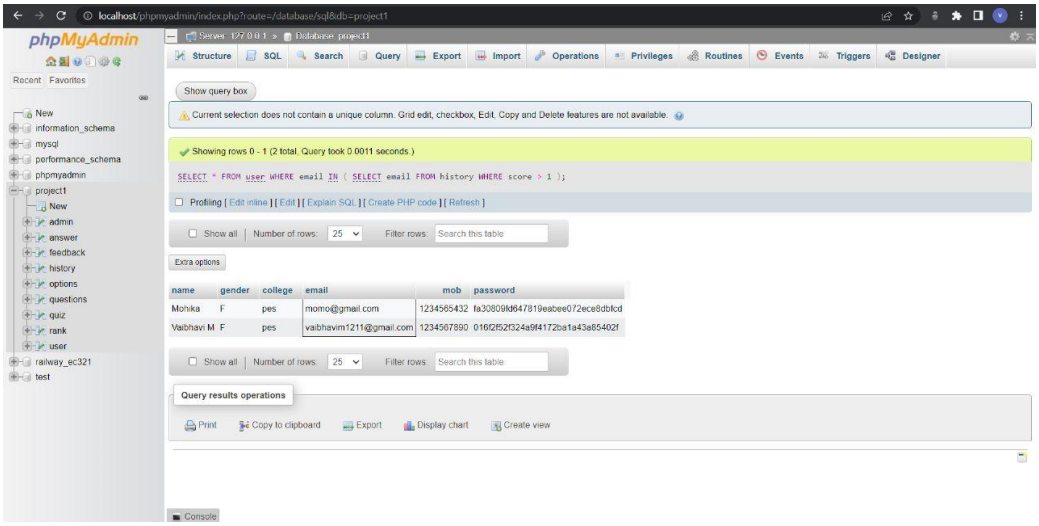
USAGE OF FUNCTION:

```
SELECT email,results(score) FROM rank;
```



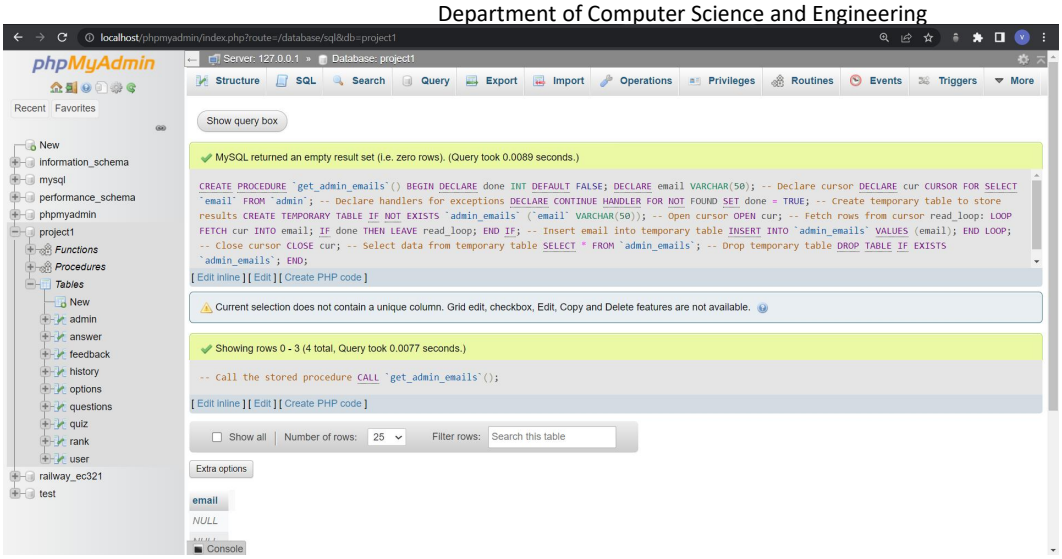
8. **NESTED QUERY:**

```
SELECT *
FROM user
WHERE email IN (
    SELECT email
    FROM history
    WHERE score > 1
)
```



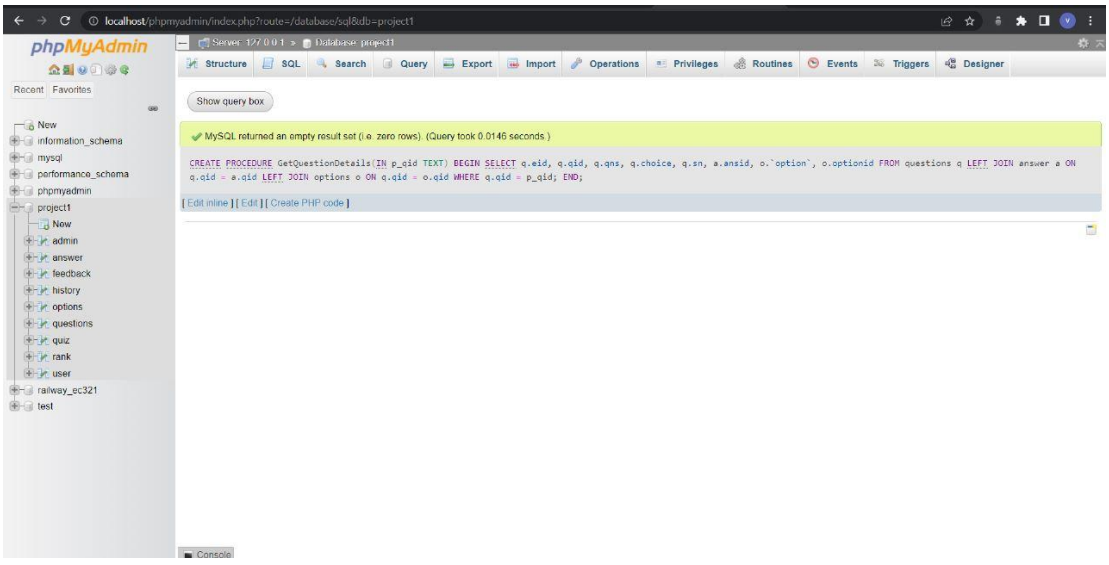
9. **CURSOR:**

```
DELIMITER //

CREATE PROCEDURE `get_admin_emails`()
BEGIN
  DECLARE done INT DEFAULT FALSE;
  DECLARE email VARCHAR(50);

  -- Declare cursor
  DECLARE cur CURSOR FOR SELECT `email` FROM `admin`;

  -- Declare handlers for exceptions
  DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

  -- Create temporary table to store results
  CREATE TEMPORARY TABLE IF NOT EXISTS `admin_emails` (`email` VARCHAR(50));

  -- Open cursor
  OPEN cur;

  -- Fetch rows from cursor
  read_loop: LOOP
    FETCH cur INTO email;
    IF done THEN
      LEAVE read_loop;
    END IF;

    -- Insert email into temporary table
    INSERT INTO `admin_emails` VALUES (email);
  END LOOP;

  -- Close cursor
  CLOSE cur;

  -- Select data from temporary table
  SELECT * FROM `admin_emails`;

  -- Drop temporary table
  DROP TABLE IF EXISTS `admin_emails`;
END //

DELIMITER ;

-- Call the stored procedure
CALL `get_admin_emails`();
```

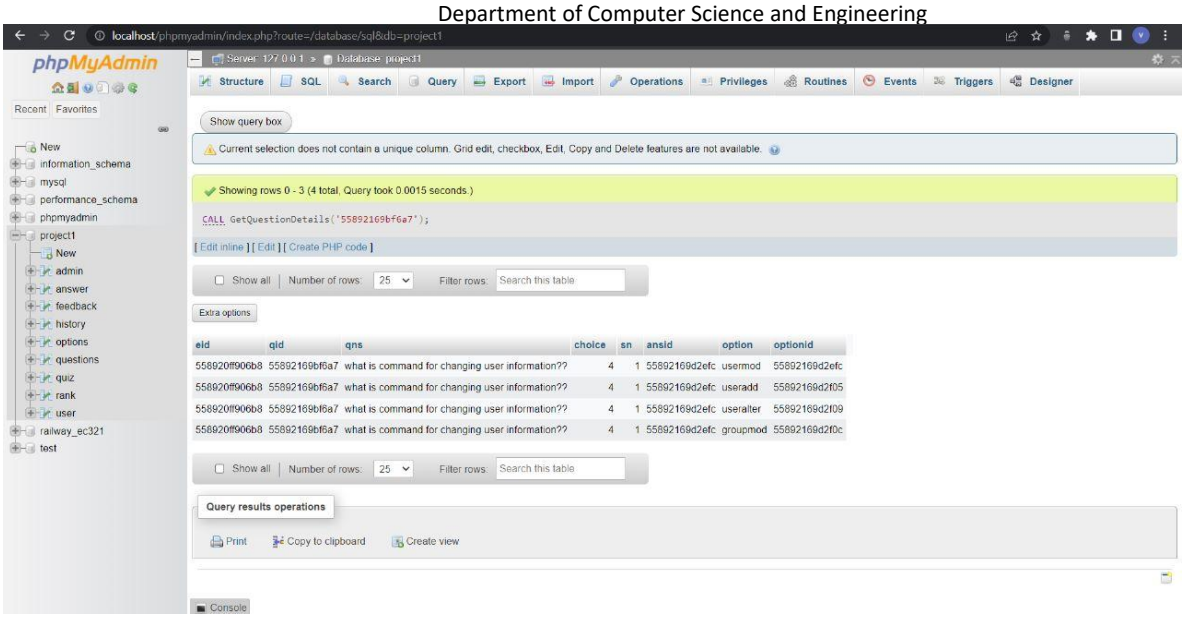


10. STORED PROCEDURE:

```
DELIMITER //

CREATE PROCEDURE GetQuestionDetails(IN p_qid TEXT)
BEGIN
  SELECT q.eid, q.qid, q.qns, q.choice, q.sn, a.ansid, o.`option`, o.optionid
  FROM questions q
  LEFT JOIN answer a ON q.qid = a.qid
  LEFT JOIN options o ON q.qid = o.qid
  WHERE q.qid = p_qid;
END //

DELIMITER ;
```

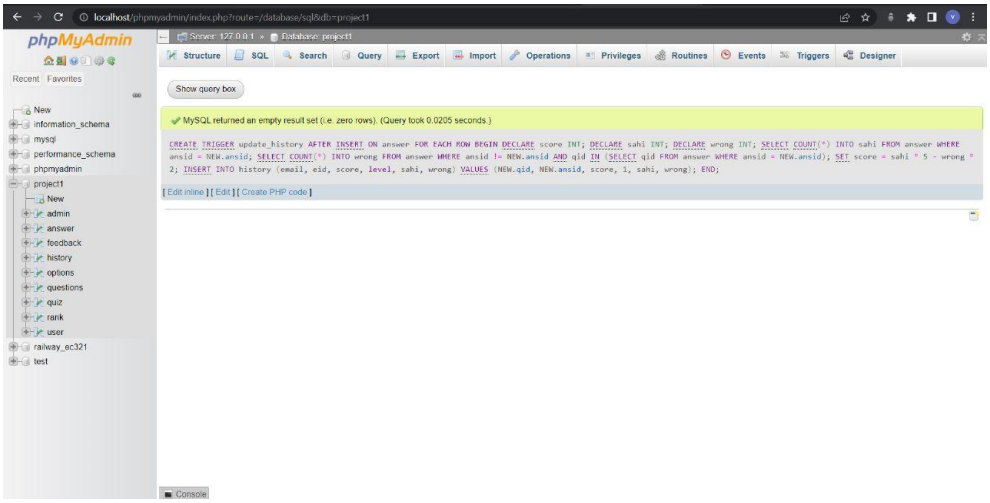



```
CALL GetQuestionDetails('55892169bf6a7');
```



11. **TRIGGER:**

```
DELIMITER //
CREATE TRIGGER update_history
AFTER INSERT ON answer
FOR EACH ROW
BEGIN
    DECLARE score INT;
    DECLARE sahi INT;
    DECLARE wrong INT;
    SELECT COUNT(*) INTO sahi FROM answer WHERE ansid = NEW.ansid;
    SELECT COUNT(*) INTO wrong FROM answer WHERE ansid != NEW.ansid AND qid IN (SELECT
qid FROM answer WHERE ansid = NEW.ansid);
    SET score = sahi * 5 - wrong * 2;
    INSERT INTO history (email, eid, score, level, sahi, wrong)
    VALUES (NEW.qid, NEW.ansid, score, 1, sahi, wrong);
END //
DELIMITER ;
```



CONCLUSION:

We have developed an interface used for online exam using php and integrated it with sql database.
The following project is easy to use and very user friendly. We have also included queries to show understanding about dbms as a subject

BIBILOGRAPHY:

W3S SCHOOL
INTRODUCTION TO DBMS -J.STEWARD 2012