<?php

//file for storing a student's exam and grading it

//grades not released until professor releases them

$link = mysqli\_connect('sql1.njit.edu','ef33','t9kmA4Yi');

if(!$link){

die(' Could not connect: '.mysql\_error());

}

mysqli\_select\_db($link,'ef33') or die(mysqli\_error());

$request = file\_get\_contents('php://input');

$Test = json\_decode($request);

//print\_r($Test);

$TestName = $Test[0];

$sizeArr = Sizeof($Test);

$student = 'student1';

//$TestName = 'EXAMTest1';

$studentTest = $student.$TestName;

$TotalScore = 0;

$TotalPoss = 0;

$sql = "CREATE TABLE `".$studentTest."` (

QuestionNum INT(255) NOT NULL AUTO\_INCREMENT PRIMARY KEY,

Qtype TEXT NOT NULL,

Question TEXT NOT NULL,

Ans1 TEXT NOT NULL,

Ans2 TEXT NOT NULL,

Ans3 TEXT NOT NULL,

Ans4 TEXT NOT NULL,

CrAns TEXT NOT NULL,

CrAns2 TEXT NOT NULL,

CrAns3 TEXT NOT NULL,

CrAns4 TEXT NOT NULL,

CrAns5 TEXT NOT NULL,

StudAnswer TEXT NOT NULL,

StudAnswer2 TEXT NOT NULL,

StudAnswer3 TEXT NOT NULL,

StudAnswer4 TEXT NOT NULL,

StudAnswer5 TEXT NOT NULL,

CorrInc TEXT NOT NULL,

PointAcq INT(255) NOT NULL,

Points INT(255) NOT NULL,

TestID INT(255) NOT NULL

)";

mysqli\_query($link, $sql);

$sql2 = "INSERT INTO `".$studentTest."` (Qtype, Question, Ans1, Ans2, Ans3, Ans4, CrAns, Points, TestID)

SELECT Qtype, Question, Ans1, Ans2, Ans3, Ans4, CrAns, Points, TestID

FROM `".$TestName."`";

mysqli\_query($link, $sql2);

$counter = 0;

for ($i=1; $i<$sizeArr; $i++) {

$ty = $Test[$i]->qtype;

//echo ' Edgar ';

//echo $ty;

if($ty == 'MC'){

//echo ' type is MC ';

$ansCor = mysqli\_query($link,"SELECT CrAns FROM `".$studentTest."` WHERE QuestionNum = '$i'");

$mc = mysqli\_fetch\_assoc($ansCor);

$ansCorr = $mc['CrAns'];

//echo $ansCorr;

$ans = $Test[$i]->ans;

$Point = mysqli\_query($link,"SELECT Points FROM `".$TestName."` WHERE QuestionNum = '$i'");

$p = mysqli\_fetch\_assoc($Point);

$Points = $p['Points'];

$TotalPoss += $Points;

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr){

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$Points' WHERE QuestionNum = '$i'");

$TotalScore += $Points;

}else{

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Incorrect' WHERE QuestionNum = '$i'");

}

}//end MC check

if($ty == 'TF'){

//echo ' type is TF ';

$ansCor = mysqli\_query($link,"SELECT CrAns FROM `".$studentTest."` WHERE QuestionNum = '$i'");

$tf = mysqli\_fetch\_assoc($ansCor);

$ansCorr = $tf['CrAns'];

//echo $ansCorr;

$ans = $Test[$i]->ans;

$Point2 = mysqli\_query($link,"SELECT Points FROM `".$TestName."` WHERE QuestionNum = '$i'");

$p2 = mysqli\_fetch\_assoc($Point2);

$Points2 = $p2['Points'];

$TotalPoss += $Points2;

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr){

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$Points2' WHERE QuestionNum = '$i'");

$TotalScore += $Points2;

}else{

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Incorrect' WHERE QuestionNum = '$i'");

}

}//end TF check

if($ty == 'FI'){

//echo ' type is FI ';

$ansCor = mysqli\_query($link,"SELECT CrAns FROM `".$studentTest."` WHERE QuestionNum = '$i'");

$fi = mysqli\_fetch\_assoc($ansCor);

$ansCorr = $fi['CrAns'];

$ansCorr = preg\_replace('/\s+/', '', $ansCorr);

$Point3 = mysqli\_query($link,"SELECT Points FROM `".$TestName."` WHERE QuestionNum = '$i'");

$p3 = mysqli\_fetch\_assoc($Point3);

$Points3 = $p3['Points'];

$TotalPoss += $Points3;

//echo $ansCorr;

$ans = $Test[$i]->ans;

$ans = preg\_replace('/\s+/', '', $ans);

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer = '$ans' WHERE QuestionNum = '$i'");

if(strcasecmp($ans,$ansCorr) == 0){

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$Points3' WHERE QuestionNum = '$i'");

$TotalScore += $Points3;

}else{

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Incorrect' WHERE QuestionNum = '$i'");

}

}//end FI check

if($ty == 'OE'){

//echo ' type is OE ';

$sizeOE = Sizeof($Test[$i]->ans);

$qkey = $Test[$i]->qkey;

$OECorr = mysqli\_query($link,"SELECT CrAns1, CrAns2, CrAns3, CrAns4, CrAns5 FROM OEqst WHERE qKey = '$qkey'");

$oe = mysqli\_fetch\_assoc($OECorr);

(string)$ansCorr1 = $oe['CrAns1'];

mysqli\_query($link, "UPDATE `".$studentTest."` SET CrAns = '$ansCorr1' WHERE QuestionNum = '$i'");

//echo "CorrAns1: ";

//var\_dump($ansCorr1);

(string)$ansCorr2 = $oe['CrAns2'];

mysqli\_query($link, "UPDATE `".$studentTest."` SET CrAns2 = '$ansCorr2' WHERE QuestionNum = '$i'");

//echo "CorrAns2: ";

//var\_dump($ansCorr2);

(string)$ansCorr3 = $oe['CrAns3'];

mysqli\_query($link, "UPDATE `".$studentTest."` SET CrAns3 = '$ansCorr3' WHERE QuestionNum = '$i'");

//echo "CorrAns3: ";

//var\_dump($ansCorr3);

(string)$ansCorr4 = $oe['CrAns4'];

mysqli\_query($link, "UPDATE `".$studentTest."` SET CrAns4 = '$ansCorr4' WHERE QuestionNum = '$i'");

//echo "CorrAns4: ";

//var\_dump($ansCorr4);

(string)$ansCorr5 = $oe['CrAns5'];

mysqli\_query($link, "UPDATE `".$studentTest."` SET CrAns5 = '$ansCorr5' WHERE QuestionNum = '$i'");

//echo "CorrAns5: ";

//var\_dump($ansCorr5);

//echo "<br>";

$Point4 = mysqli\_query($link,"SELECT Points FROM `".$TestName."` WHERE QuestionNum = '$i'");

$p4 = mysqli\_fetch\_assoc($Point4);

$Points4 = $p4['Points'];

$TotalPoss += $Points4;

$corrCounter = 0;

for($j=0; $j<$sizeOE; $j++){

(string)$ans = $Test[$i]->ans[$j];

(string)$ans = preg\_replace('/\s+/', '', $ans);

//echo "Ans: ";

//var\_dump($ans);

//echo "<br>";

//echo $corrCounter;

switch ($j) {

case 0:

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr1){

$corrCounter++;

}

break;

case 1:

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer2 = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr2){

$corrCounter++;

}

break;

case 2:

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer3 = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr3){

$corrCounter++;

}

break;

case 3:

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer4 = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr4){

$corrCounter++;

}

break;

case 4:

mysqli\_query($link, "UPDATE `".$studentTest."` SET StudAnswer5 = '$ans' WHERE QuestionNum = '$i'");

if($ans == $ansCorr5){

$corrCounter++;

}

break;

default:

$corrCounter = 0;

}//end switch

}//end secondary for loop

if($corrCounter == $sizeOE){

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$Points4' WHERE QuestionNum = '$i'");

$TotalScore += $Points4;

}else if($corrCounter == ($sizeOE - 1)){

$partialPoints = (int)(((double)(4/$sizeOE))\*$Points4);

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$partialPoints' WHERE QuestionNum = '$i'");

$TotalScore += $partialPoints;

}else if($corrCounter == ($sizeOE - 2)){

$partialPoints = (int)(((double)(3/$sizeOE))\*$Points4);

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$partialPoints' WHERE QuestionNum = '$i'");

$TotalScore += $partialPoints;

}else if($corrCounter == ($sizeOE - 3)){

$partialPoints = (int)(((double)(2/$sizeOE))\*$Points4);

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$partialPoints' WHERE QuestionNum = '$i'");

$TotalScore += $partialPoints;

}else if($corrCounter == ($sizeOE - 4)){

$partialPoints = (int)(((double)(1/$sizeOE))\*$Points4);

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Correct' WHERE QuestionNum = '$i'");

mysqli\_query($link, "UPDATE `".$studentTest."` SET PointAcq = '$partialPoints' WHERE QuestionNum = '$i'");

$TotalScore += $partialPoints;

}else{

mysqli\_query($link, "UPDATE `".$studentTest."` SET CorrInc = 'Incorrect' WHERE QuestionNum = '$i'");

}

}//end OE check

}//end main for loop

(int)$finalGrade = (int)(($TotalScore / $TotalPoss)\*100);

//echo $finalGrade;

$insGrades = "INSERT INTO GradedTests (TestName, Student, PointsAcq, PointsPoss, Grade) VALUES ('$TestName', '$student', '$TotalScore', '$TotalPoss', '$finalGrade')";

$exec = mysqli\_query($link, $insGrades);

echo 'Exam successfully submitted!';

header("Location:https://web.njit.edu/~geg7/cs490/Front/displayExam.php");

?>