DBMS PROJECT REPORT

TITLE: LANGUAGE LEARNING WEBSITE

TEAM MEMBERS:

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SRN: PES1UG21CS316

SEC: 5F

ABSTRACT

The project focuses on the development of a dynamic language learning website, accommodating users, administrators, and diverse language modules. Users can create profiles, explore language lessons, and engage in quizzes to evaluate their language proficiency. Meanwhile, administrators have the capability to manage user accounts and oversee content.

The website emphasizes a user-centric approach with a clean and intuitive interface, promoting an enjoyable learning experience. Language modules offer structured lessons, while quizzes are strategically integrated to reinforce learning and assess user progress.

Key features include user profiles, personalized dashboards displaying progress metrics, and an adaptive design for accessibility across devices.

Ultimately, this language learning website seeks to provide an interactive and accessible platform, fostering a global community of language learners and enthusiasts. It aims to contribute to the evolving landscape of online education by combining functionality, engagement, and ease of use.

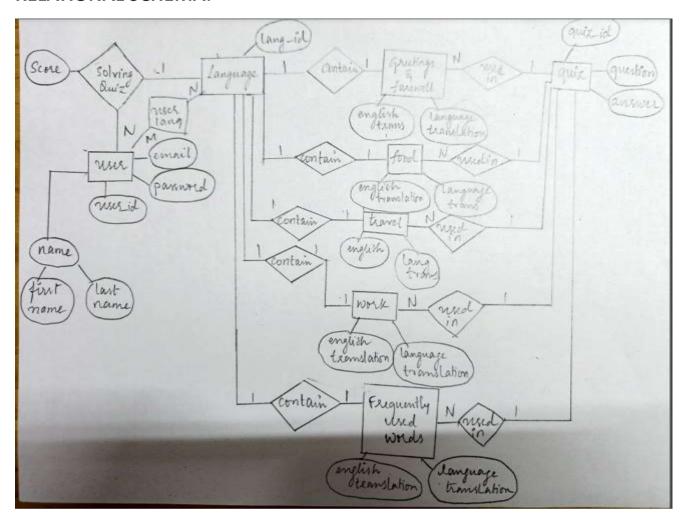
Software/Tools/Programming Languages:

PHP,MYSQL,XAMPP

ER DIAGRAM:

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RELATIONAL SCHEMA:



DDL SQL commands:

```
CREATE TABLE user (
  'userid' VARCHAR(6) CHARACTER SET utf8,
  'firstname' VARCHAR(8) CHARACTER SET utf8 NOT NULL,
  `lastname` VARCHAR(9) CHARACTER SET utf8,
  'email' VARCHAR(18) CHARACTER SET utf8 NOT NULL,
  'password' VARCHAR(18) CHARACTER SET utf8 NOT NULL,
  PRIMARY KEY ('userid')
);
CREATE TABLE language (
  'language id' VARCHAR(6) CHARACTER SET utf8,
  'language' VARCHAR(7) CHARACTER SET utf8,
  PRIMARY KEY (`language id`)
);
CREATE TABLE user_lang (
  `userid` VARCHAR(6) CHARACTER SET utf8,
  `language id` VARCHAR(6) CHARACTER SET utf8,
  PRIMARY KEY ('userid', 'language_id'),
  FOREIGN KEY ('userid') REFERENCES 'user' ('userid') ON DELETE CASCADE,
  FOREIGN KEY ('language id') REFERENCES 'language' ('language id') ON DELETE CASCADE
);
CREATE TABLE quiz (
  'quiz id' VARCHAR(5) CHARACTER SET utf8,
  `language id` VARCHAR(6) CHARACTER SET utf8,
  `question` VARCHAR(55) CHARACTER SET utf8,
  `answer` VARCHAR(22) CHARACTER SET utf8,
```

```
PRIMARY KEY ('quiz_id', 'language_id'),
  FOREIGN KEY ('language id') REFERENCES 'language' ('language id') ON DELETE CASCADE
);
CREATE TABLE quiz score (
  `userid` VARCHAR(6) CHARACTER SET utf8,
  `language id` VARCHAR(6) CHARACTER SET utf8,
  `score` INT,
  PRIMARY KEY ('userid', 'language id'),
  FOREIGN KEY ('userid') REFERENCES 'user' ('userid') ON DELETE CASCADE,
  FOREIGN KEY ('language id') REFERENCES 'language' ('language id') ON DELETE CASCADE
);
CREATE TABLE greetings and farewell (
  'language id' VARCHAR(6) CHARACTER SET utf8,
  'quiz id' VARCHAR(5) CHARACTER SET utf8,
  `words_in_language` VARCHAR(12) CHARACTER SET utf8,
  `english_meaning` VARCHAR(6) CHARACTER SET utf8,
  PRIMARY KEY ('language id', 'quiz id'),
  FOREIGN KEY ('language id') REFERENCES 'language' ('language id') ON DELETE CASCADE
);
CREATE TABLE food (
  `quiz_id` VARCHAR(5) CHARACTER SET utf8,
  `language id` VARCHAR(6) CHARACTER SET utf8,
  'words in language' VARCHAR(12) CHARACTER SET utf8,
  `english_meaning` VARCHAR(6) CHARACTER SET utf8,
  PRIMARY KEY ('quiz id', 'language id'),
  FOREIGN KEY ('language_id') REFERENCES 'language'('language_id') ON DELETE CASCADE
```

```
);
CREATE TABLE relationships (
  `quiz_id` VARCHAR(5) CHARACTER SET utf8,
  `language_id` VARCHAR(6) CHARACTER SET utf8,
  `words_in_language` VARCHAR(8) CHARACTER SET utf8,
  `english_meaning` VARCHAR(8) CHARACTER SET utf8,
  PRIMARY KEY ('quiz id', 'language id'),
  FOREIGN KEY ('language id') REFERENCES 'language' ('language id') ON DELETE CASCADE
);
CREATE TABLE travel (
  `quiz_id` VARCHAR(5) CHARACTER SET utf8,
  'language id' VARCHAR(6) CHARACTER SET utf8,
  'words in language' VARCHAR(8) CHARACTER SET utf8,
  'english meaning' VARCHAR(8) CHARACTER SET utf8,
  PRIMARY KEY ('quiz id', 'language id'),
  FOREIGN KEY ('language_id') REFERENCES 'language'('language_id') ON DELETE CASCADE
);
CREATE TABLE work (
  `quiz_id` VARCHAR(5) CHARACTER SET utf8,
  `language_id` VARCHAR(6) CHARACTER SET utf8,
  `words_in_language` VARCHAR(8) CHARACTER SET utf8,
  'english meaning' VARCHAR(8) CHARACTER SET utf8,
  PRIMARY KEY ('quiz id', 'language id'),
  FOREIGN KEY ('language_id') REFERENCES 'language'('language_id') ON DELETE CASCADE
);
```

```
CREATE TABLE frequently_used_words (
    `quiz_id` VARCHAR(5) CHARACTER SET utf8,
    `language_id` VARCHAR(6) CHARACTER SET utf8,
    `words_in_language` VARCHAR(26) CHARACTER SET utf8,
    `english_meaning` VARCHAR(21) CHARACTER SET utf8,
    PRIMARY KEY (`quiz_id`, `language_id`),
    FOREIGN KEY (`language_id`) REFERENCES `language`(`language_id`) ON DELETE CASCADE
);
```

CRUD OPERATIONS:

```
$getUserIDQuery = "SELECT userid FROM user WHERE email = '$email'";
$checkLanguageQuery = "SELECT " FROM user_lang WHERE userid = '$userID' AND language_id = '$selectedLanguageID'";
```

Insert:

Insert User information

```
$sql = "INSERT INTO User (userid, firstname, lustname, email, password) VALUES ('$userID','$firstName', '$lastName', '$email', '$password')';
```

Insert Language:

```
$sql = "INSERT INTO language (language_id, language) VALUES ('$languageID', '$language')";
```

Inserting Food values:

Inserting Frequently used words:

```
$sql "INSERT INTO frequently used words (quiz_id, language_id, words_in_language, english_meaning)
VALUES ('$quizID', '$languageID', '$wordsInLang', '$englishMeaning')";
```

Inserting Greetings and Farewell:

```
$sql = "INSERT INTO greetings_and_farewell (language_id, quiz_id, words_in_language, english_meaning)
VALUES ('$languageID', '$quizID', '$wordsInLang', '$englishMeaning')";
```

Inserting Travel:

```
$sql = "INSERT INTO travel (quiz_id, language_id, words_in_language, english_meaning)
VALUES ('$quizID', '$languageID', '$wordsInLang', '$englishMeaning')";
```

```
Inserting Quiz values:
```

```
"Ssql = "INSERT INTO Quiz (quiz id, language id , question, answer) VALUES ('SQUIZID', 'SlanguageID', 'Squestion', 'Sanswer')";
Inserting Quiz Score:
$sql = "INSERT INTO Quiz_Score (userid, language_id, score) VALUES ('$userID', '$languageID', $score)";
UPDATE:
55ql = "APANTY Diver SET FIRSTHAME - 'SnewFirstHame', LastHame - 'SnewLastHame', Emill - 'SnewEmall', Paismond - 'SnewFassword' AMRIE Diverib - 'SuserIDTOUpdate'';
        SET language id - '$newLanguageID', words in language - '$newWordsInLang', english meaning - '$newEnglishMeaning'
        WHERE quiz id - "squizIDToUpdate";
sql = "UPDATE frequently_used_words
       SET language_id = '$newLanguageID', words_in_language = '$newWordsInLang', english_meaning = '$newEnglishMeaning'
WHERE quiz_id = '$quizIOToUpdate'";
       "CPDATE greetings and farewell
        SET language_id = 'SnewLanguageID', words_in_language = 'SnewWordsInLang', english_meaning = 'SnewEnglishMeaning'
        WHERE quiz_id - 'squizIDToUpdate'";
$sql = "UPDATE language SET language = '$newLanguage' WHERE language_id = '$languageIDToUpdate'";
55ql = "NEWAYE Quiz SET language id = "SnewLanguageID", question = 'SnewQuestion', answer = 'SnewAnswer' WHEME quiz id = 'SquizIDToUpdate'";
$sql = "UPDATE Quiz_Score SET score = $newScore WHENE userid = "$userIDToUpdate" AND language_id = "$languageIDToUpdate";
Ssql - "UPDATE travel
       SET language id = '$newLanguageID', words in language = '$newWordsInLang', english meaning = '$newEnglishMeaning' WHERE quiz_id = '$quizIDTOUpdate'";
SELECT:
$getUserIDQuery = "SELECT userid FROM user WHERE email = '$email'";
$checktanguageQuery - "SELECT * FROM user_lang WHERE userid - '$userID' AND language_id - '$selectedLanguageID'";
$foodQuery = "SELECT * FROM food WHERE language id = '$userLanguageID'";
$frequentlyUsedWordsQuery = "SELECT         FROM frequently_used_words WHERE language_id = '$userLanguageID'";
$userInfoQuery = "SELECT * FROM user WHERE email = '$email'";
$greetingsQuery = "SELECT " FROM greetings_and_farewell WHERE language_id = '$userLanguageID'";
$sql = "SELECT userid, email FROM User WHERE email='" . $email . "' AND password='" . $password .
$quizQuery = "SELECT answer FROM quiz WHERE quiz_id = '$questionID' AND language_id = '$userLanguage'";
$quizQuery = "SELECT * FROM quiz WHERE language id = '$userLanguage'";
```

```
$travelQuery = "SELECT * FROM travel WHERE language_id = '$userLanguageID'";

DELETE:

$sql = "DELETE FROM User WHERE UserID = '$userIDToDelete'";

$sql = "DELETE FROM food WHERE quiz_id = '$quizIDToDelete'";

$sql = "DELETE FROM frequently_used_words WHERE quiz_id = '$quizIDToDelete'";

$sql = "DELETE FROM greetings_and_farewell WHERE quiz_id = '$quizIDToDelete'";

$sql = "DELETE FROM Quiz WHERE quiz_id = '$quizIDToDelete'";

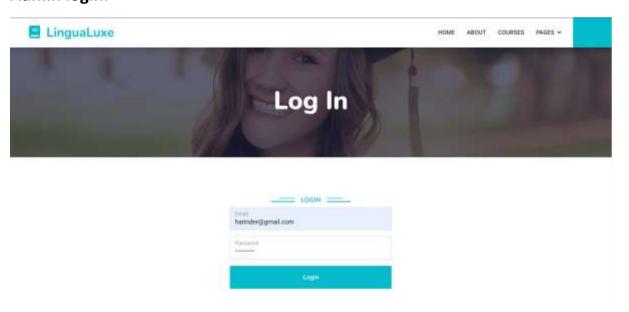
$sql = "DELETE FROM language WHERE language_id = '$languageIDToDelete'";

$sql = "DELETE FROM Quiz_Score WHERE userid = '$userIDToDelete' AND language_id = '$languageIDToDelete'";

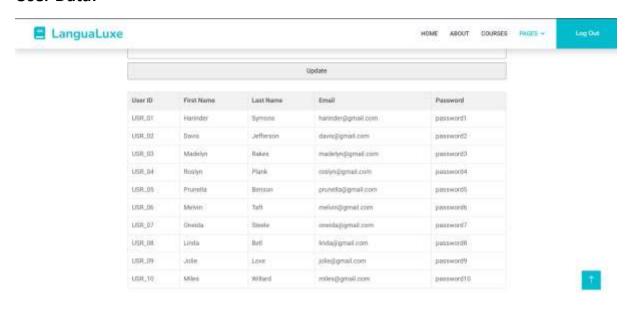
$sql = "DELETE FROM travel WHERE quiz_id = '$quizIDToDelete'";
```

List of functionalities of the project and its associated screenshots from front end

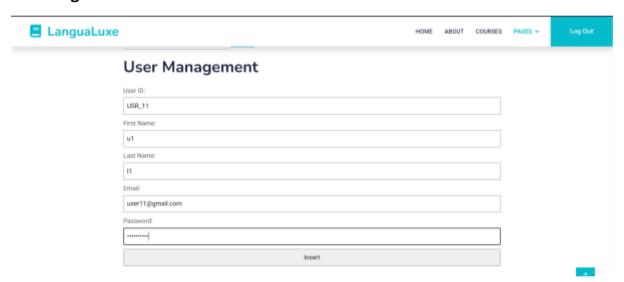
Admin login:



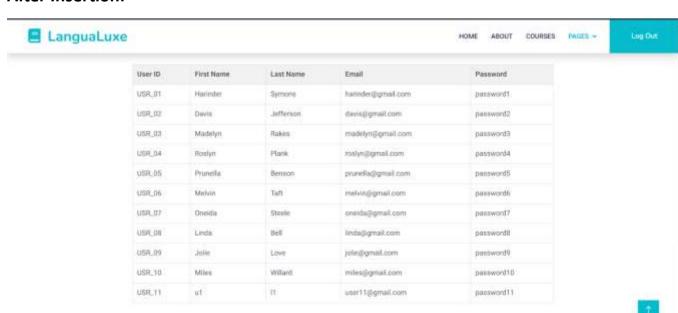
User Data:



Inserting User:



After Insertion:



DELETE:

User ID to Delete:

USR_11

Delete

AFTER DELETION:

User deleted successfully
ADMIN DASHBOARD

User ID	First Name	Last Name	Email	Password
USR_01	Harinder	Symons	harinder@gmail.com	password1
USR_02	Davis	Jefferson	davis@gmail.com	password2
USR_03	Madelyn	Rakes	madelyn@gmail.com	password3
USR_04	Roslyn	Plank	rosłyn@gmail.com	password4
USR_05	Prunella	Benson	prunella@gmail.com	password5
USR_06	Melvin	Taft	melvin@gmail.com	password6
USR_07	Oneida	Steele	oneida@gmail.com	password7
USR_08	Linda	Bell	linda@gmail.com	password8
USR_09	Jolie	Love	jolie@gmail.com	password9
USR_10	Miles	Willard	miles@gmail.com	password10

UPDATE:

User ID to Update:

USR_10

New First Name:

Updated

New Last Name:

updated

New Email:

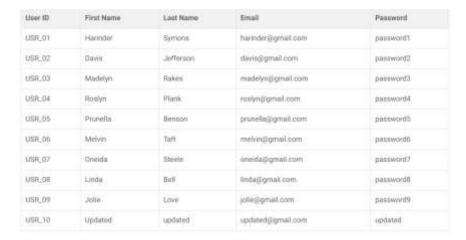
updated@gmail.com

New Password:

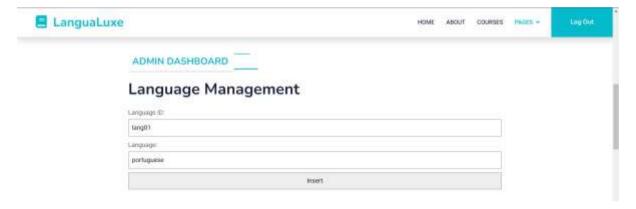
Update

After Updating:



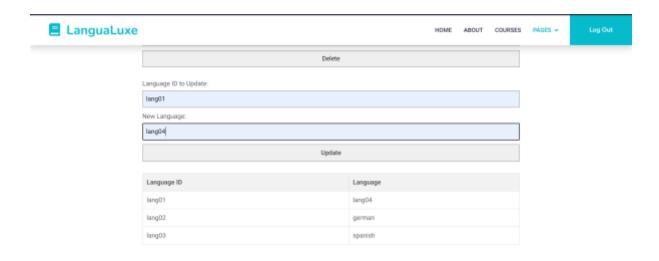


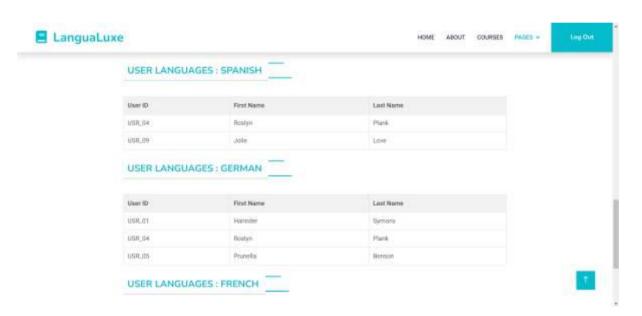
The Admin can also view the languages update and delete them



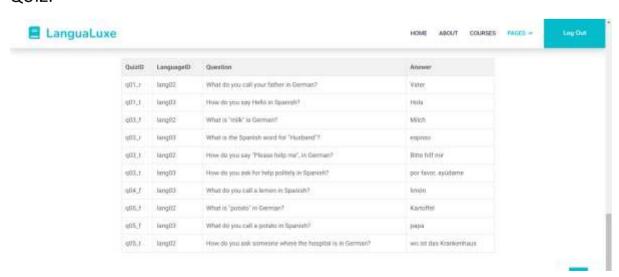
DELETE:

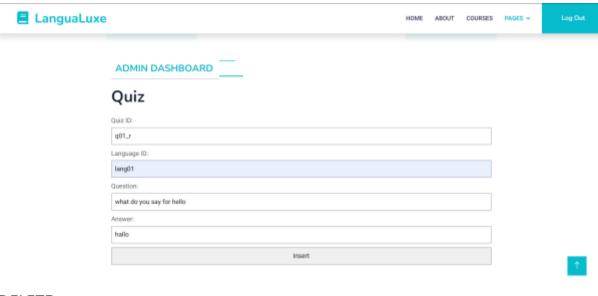




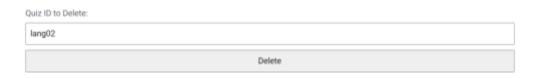


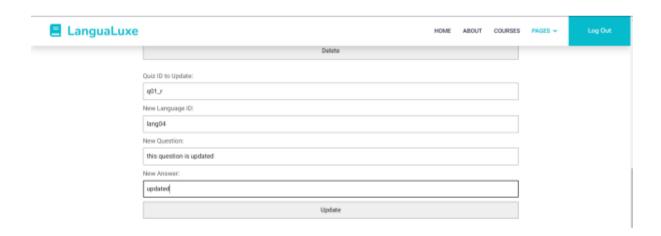
QUIZ:

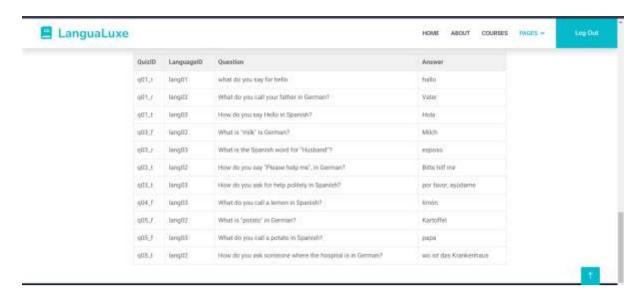




DELETE:







GREETINGS AND FAREWELL:

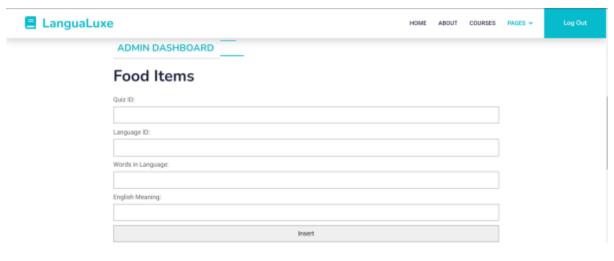


DELETE:





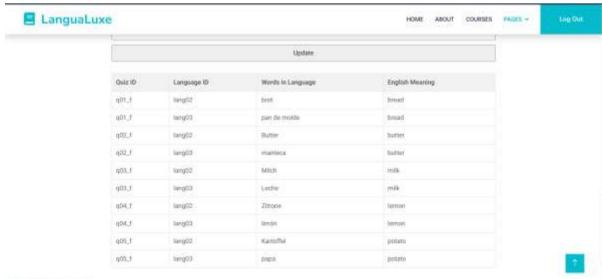
FOOD:



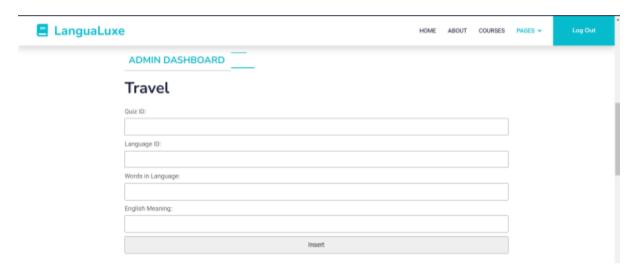
DELETE:



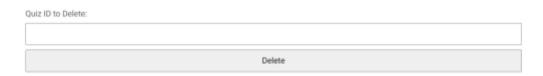


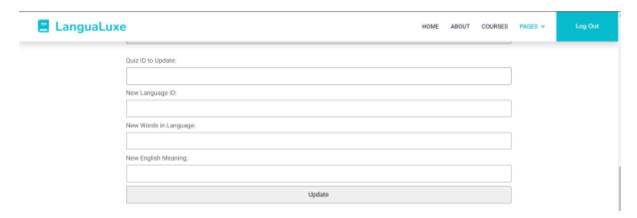


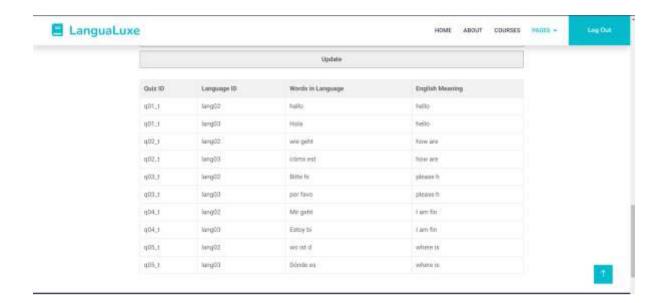
TRAVEL:



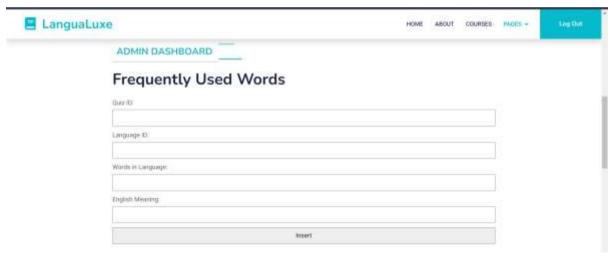
DELETE:







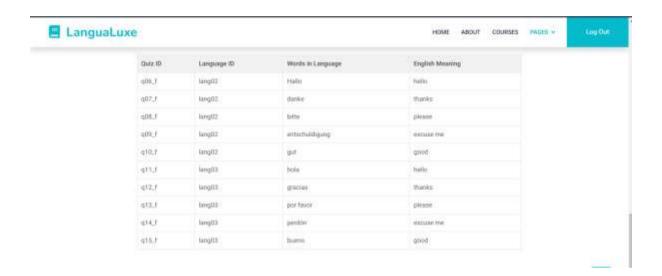
FREQUENTLY USED WORDS:



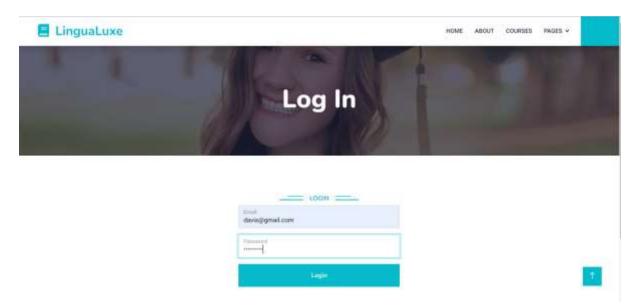
DELETE:

Quiz ID to Delete:	
	Delete

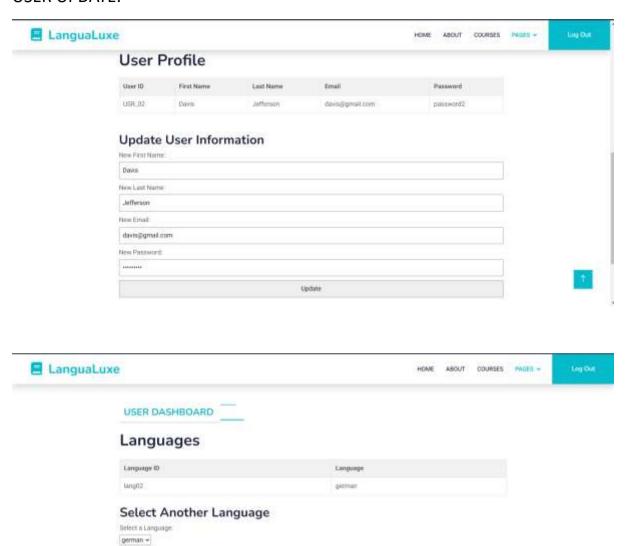




USER LOGIN:

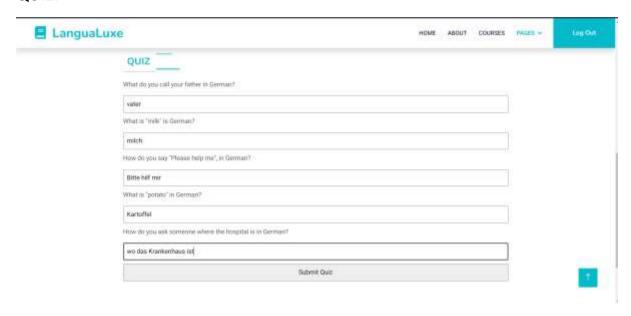


USER UPDATE:

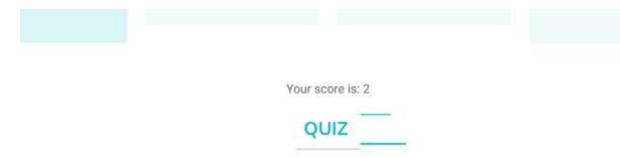


Add Language

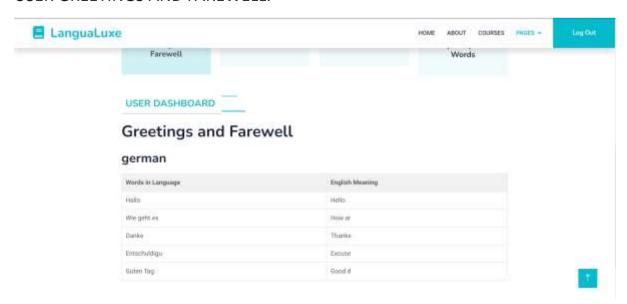
QUIZ:



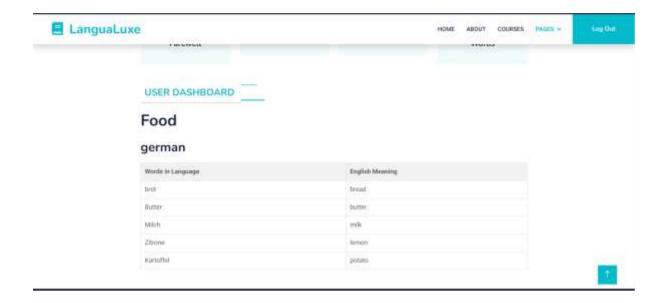
QUIZ SCORE:



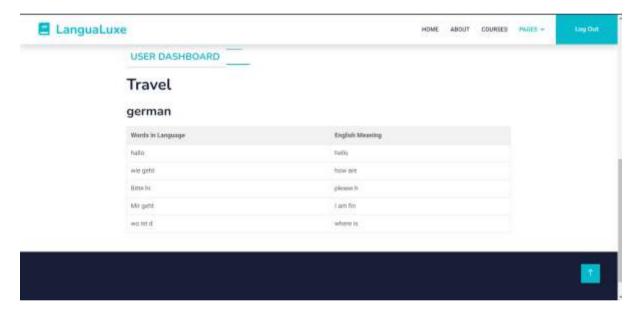
USER GREETINGS AND FAREWELL:



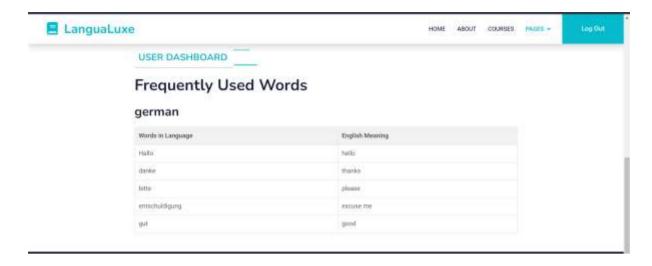
FOOD:



TRAVEL:



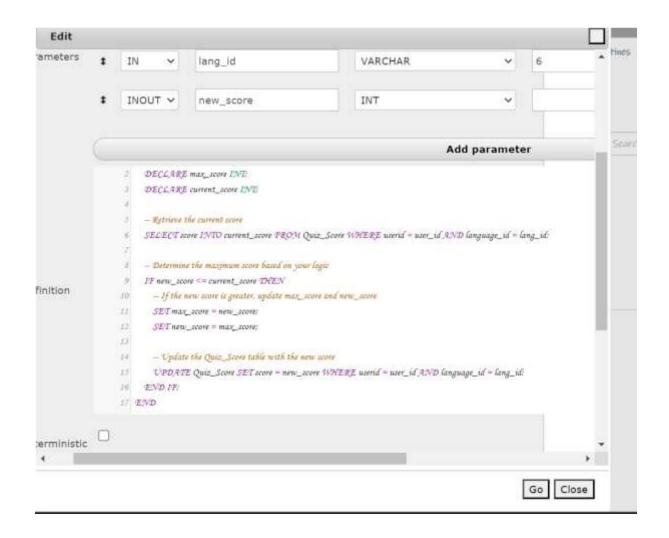
FREQUENTLY USED WORDS:

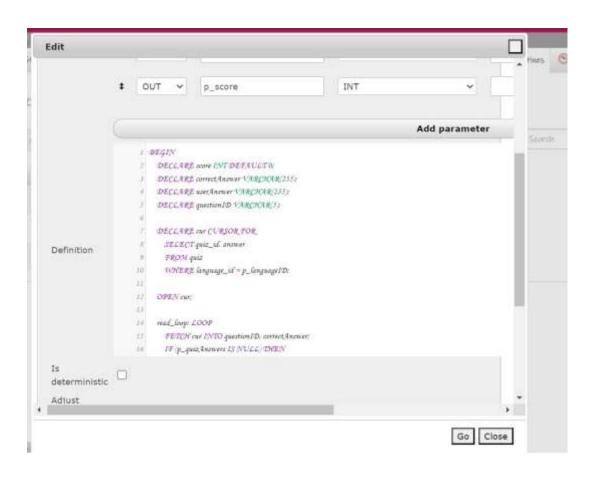


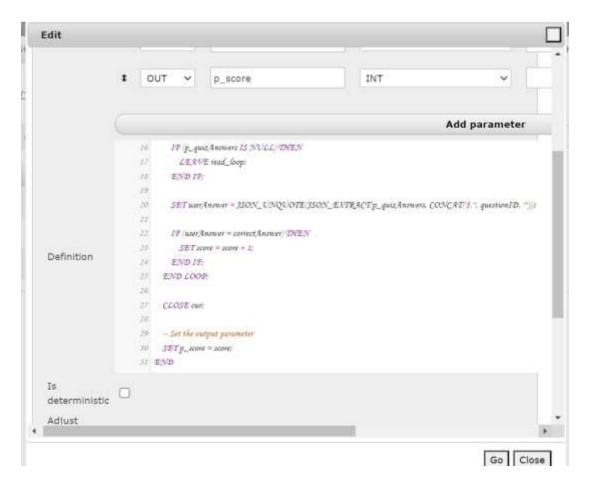
Triggers, Procedures/Functions, Nested query, Join, Aggregate queries

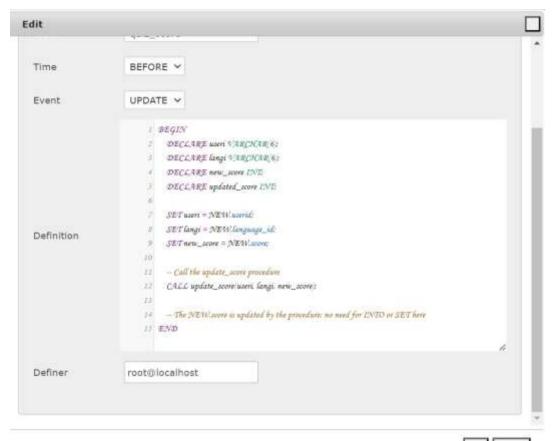
Return options ### PEGIN ### DECLARE avg_score DECIMAL(10, 2): ### SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id: ### A SELECT AVG(score) INT			Add parameter
Return DECLARE arg_score DECIMAL(10.2) SELECTAVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id; Here are no scores for the specified language, return NULL If avg_score IS NULL THEN RETURN NULL: ELSE RETURN avg_score: END IF:	Return type	DECIMAL	~
DECLARE ang_score DECIMAL(10.2) SELECT AVG(score) INTO ang_score FROM Quiz_Score WHERE language_id = lang_id; - If there are no scores for the specified language, return NULL IF ang_score IS NULL THEN RETURN NULL: ELSE RETURN ang_score: END IF:	Return ength/values	10,2	
DECLARE ang_score DECIMAC(10, 2): SELECT AVG(score) INTO ang_score FROM Quiz_Score WHERE language_id = lang_id; - If there are no scores for the specified language, return NULL IT ang_score IS NULL THEN RETURN NULL: ELSE RETURN ang_score: END IF:	Return		•
	Definition	DECLARE avg_scor SELECT AVG(score) Fithere are no score That g_score IS NV. RETURN NULL ELSE RETURN avg_scor END IF:	e) INTO ang_score FROM Quiz_Score WHERE language_id = lang_id res for the specified language. return NVLL ILL THEN Li

```
Edit
                                                                                  Add parameter
             I BEGIN
                DECLARE WHID VARCHAR 255;
                 - Get the user ID based on the email
                 SECECTuserid INTO userID FROM user WHERE email = userEmail-
                 - Check if the user already has the selected language
                IF NOT EXISTS (SELECT" FROM user_lang WHERE usered = userID AND language_ul = selectedCanguageID) THEN
                  - Add the selected language to the user
             2
            10
                  INSERTINTO user_lang (userid, language_id) ARLUES (userID, selectedLanguageID):
            12
                ELSE
                 SIGNAL SQLSTATE 45000'
SETMESSAGE_TENT = User already has the selected language:
            14 END 17:
            II END
istic 🗆
```









Go Close

TRIGGER: Before update_score

```
BEGIN
```

```
DECLARE useri VARCHAR(6);

DECLARE langi VARCHAR(6);

DECLARE new_score INT;

DECLARE updated_score INT;

SET useri = NEW.userid;

SET langi = NEW.language id;
```

SET new_score = NEW.score;

-- Call the update_score procedure
CALL update_score(useri, langi, new_score);

-- The NEW.score is updated by the procedure; no need for INTO or SET here $\ensuremath{\mathsf{END}}$

AGGREGATE FUNCTIONS: To calculate Average score

BEGIN

DECLARE avg_score DECIMAL(10, 2);

SELECT AVG(score) INTO avg_score FROM Quiz_Score WHERE language_id = lang_id;

```
-- If there are no scores for the specified language, return NULL
  IF avg score IS NULL THEN
    RETURN NULL;
  ELSE
    RETURN avg_score;
  END IF;
END
PROCEDURES: Add user Language
BEGIN
  DECLARE userID VARCHAR(255);
  -- Get the user ID based on the email
  SELECT userid INTO userID FROM user WHERE email = userEmail;
  -- Check if the user already has the selected language
  IF NOT EXISTS (SELECT * FROM user_lang WHERE userid = userID AND language_id =
selectedLanguageID) THEN
    -- Add the selected language to the user
    INSERT INTO user lang (userid, language id) VALUES (userID, selectedLanguageID);
    SIGNAL SQLSTATE '45000'
    SET MESSAGE TEXT = 'User already has the selected language';
  END IF;
END
Calculate Quiz Score:
BEGIN
  DECLARE score INT DEFAULT 0;
  DECLARE correctAnswer VARCHAR(255);
  DECLARE userAnswer VARCHAR(255);
  DECLARE questionID VARCHAR(5);
  DECLARE cur CURSOR FOR
    SELECT quiz id, answer
    FROM quiz
    WHERE language_id = p_languageID;
  OPEN cur;
  read loop: LOOP
    FETCH cur INTO questionID, correctAnswer;
    IF (p_quizAnswers IS NULL) THEN
      LEAVE read loop;
    END IF;
    SET userAnswer = JSON_UNQUOTE(JSON_EXTRACT(p_quizAnswers, CONCAT('$."', questionID,
""')));
    IF (userAnswer = correctAnswer) THEN
      SET score = score + 1;
```

```
END IF;
  END LOOP;
  CLOSE cur;
  -- Set the output parameter
  SET p score = score;
END
Update score:
BEGIN
  DECLARE max score INT;
  DECLARE current_score INT;
  -- Retrieve the current score
  SELECT score INTO current_score FROM Quiz_Score WHERE userid = user_id AND language_id =
lang_id;
  -- Determine the maximum score based on your logic
  IF new score <= current score THEN
    -- If the new score is greater, update max score and new score
    SET max score = new score;
    SET new score = max score;
    -- Update the Quiz_Score table with the new score
    UPDATE Quiz_Score SET score = new_score WHERE userid = user_id AND language_id = lang_id;
  END IF;
```

JOINS:

Selected languages

Frequent table:

```
$\frac{\text{Fetch user's selected tanguages}}{\text{semail} = $\subsection{\text{SESSION['email'];}}
$\text{userLanguagesQuery} = \text{"SELECT l.language_id, l.language FROM user_lang ul}

JOIN user u ON ul.userid = u.userid

JOIN Language l ON ul.language_id = l.language_id

WHERE u.email = '$\text{email'";}
$\text{userLanguagesResult} = $\text{conn->query($\text{userLanguagesQuery);}}$
```

Greetings and farewell table:

```
$\frac{1}{\text{Fetch user's selected languages}}
$\text{email = $_SESSION['email'];}
$\text{userLanguagesQuery = "SELECT l.language_id, l.language FROM user_lang ul}

\[ \text{JOIN user u ON ul.userid = u.userid}

\[ \text{JOIN Language l ON ul.language_id = l.language_id}

\[ \text{WHERE u.email = '$email'";}
$\text{userLanguagesResult = $conn->query($userLanguagesQuery);}
}
$\text{userLanguagesResult
```

Languages:

```
$\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\finnt}}}}}}}}}}}}}}}}}}}}}}} \fracetimes \textit{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\
```

Quiz:

Travel table:

```
$\frac{\text{Fetch user's setected tanguages}}{\text{semail = $_SESSION['email'];}}
$\text{suserLanguagesQuery = "SELECT 1.language_id, 1.language FROM user_lang ul}

JOIN user u ON ul.userid = u.userid

JOIN Language 1 ON ul.language_id = 1.language_id

WHERE u.email = '$\text{email'";}
$\text{userLanguagesResult = $\text{conn->query($\text{userLanguagesQuery);}}}$
```

TO retrieve languages:

```
// Execute the main query to retrieve users who have language proficiency in Spanish

$query = "
SELECT u.userid, u.firstname, u.lastname
FROM user u
WHERE EXISTS (
SELECT *
FROM user_lang l
WHERE l.userid = u.userid
AND l.language_id = (
SELECT language_id
FROM language
WHERE language = 'spanish'
)
)";
```

```
// Execute the main query to retrieve users who have language proficiency in Spanish
$query = "
SELECT u.userid, u.firstname, u.lastname
FROM user u
WHERE EXISTS (
SELECT *
FROM user_lang l
WHERE l.userid = u.userid
AND l.language_id = (
SELECT language_id
FROM language
WHERE language = 'german'
)
)";
```

```
$query = "

SELECT u.userid, u.firstname, u.lastname
FROM user u
WHERE EXISTS (
    SELECT *
    FROM user_lang l
    WHERE l.userid = u.userid
    AND l.language_id = (
        SELECT language_id
        FROM language
        WHERE language = 'french'
    )
)";
```