

Team 6
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CST 336-40_SU24
Team Project - Plan

Super Quiz

Database

Table 1: users

varchar username (primary key)
varchar password
varchar first_name
varchar last_name
int total_score (placeholder not used)
bool is_admin

Admin user is preloaded into the table when it is created. Other users are added by registering through the application.

Table 2: correct_answers

Int question_id (foreign key)
varchar username (foreign key)

Starts empty. A new record is added every time a user gets a correct answer.

Table 3: questions

Int question_id (primary key)
varchar question_text
~~varchar category~~
int category_id
varchar correct_answer
varchar incorrect_answer1
varchar incorrect_answer2
varchar incorrect_answer3

Starts empty. Admin gets questions from a web API and adds them to the database.

Table 4: categories

int category_id
varchar category_name

Populated in advance with API's available category ID's and names as provided by https://opentdb.com/api_config.php.

External web APIs

<https://opentdb.com/api.php?amount=10&category=15&difficulty=easy&type=multiple>

In the above example ten questions are pulled from the api with category videogames which corresponds to category ID = 15. Difficulty and type restricted to above values.

A random quiz background is generated using the following API: **<https://unsplash.com>**

Local APIs

`/api/score/:username` returns score for user with username

`/api/grade/:username&qID&answer` takes a username, a question_id and answer and returns one of three statuses: incorrect, correct, or repeat of a previously correct answer. The API records correct answers to the database correct_answers table

API Fetch Call Locations within Project

Location of fetch statements: `/js/questions.js` `/js/answer.js` `home.ejs` `welcome.ejs` (four API's total)

Views

View 1 (home): Login Page (form)

Inputs for ID (text) and for password (password)

Register button opens view 2

Login buttons opens view 3

View 2 (register): Register a new user. (form)

First name, last name, login ID (all Input type text)

Password (Input type password)

Submit button checks data and goes to view 3

View 3 (welcome): Welcome page

Welcome user by name \boxes populated with current data and input type = password box.

Show total user score. Session is used to hold the user id between sessions.

Buttons for view 4 (if user is admin), view 5, and view 6

View 4 (addQuestion): Add Questions (Admin Only)

Confirms the user is admin then presents a list of categories.

Admin selects a category and enters a number of questions and clicks the submit button.

Javascript checks data and pulls questions and answers from API. Admin then clicks button to write questions and answers to database.

View 5 (answer): Answer a quiz question

User selects category from dropdown. If there are no remaining questions that the user has not answered correctly then show message saying so. Otherwise show question and randomly

arranged 4 answers (radio buttons). User selects the answer and submits. The correct answer is shown by changing button color. Users selection is outlined.

New question button to load new question

A Home button to return to welcome.

View 6 (modify): Modify user

Pre-filled form to change user name, password, first name, last name, and is_admin credential.

Roles and responsibilities of team members:(*no current issues with team mates*)

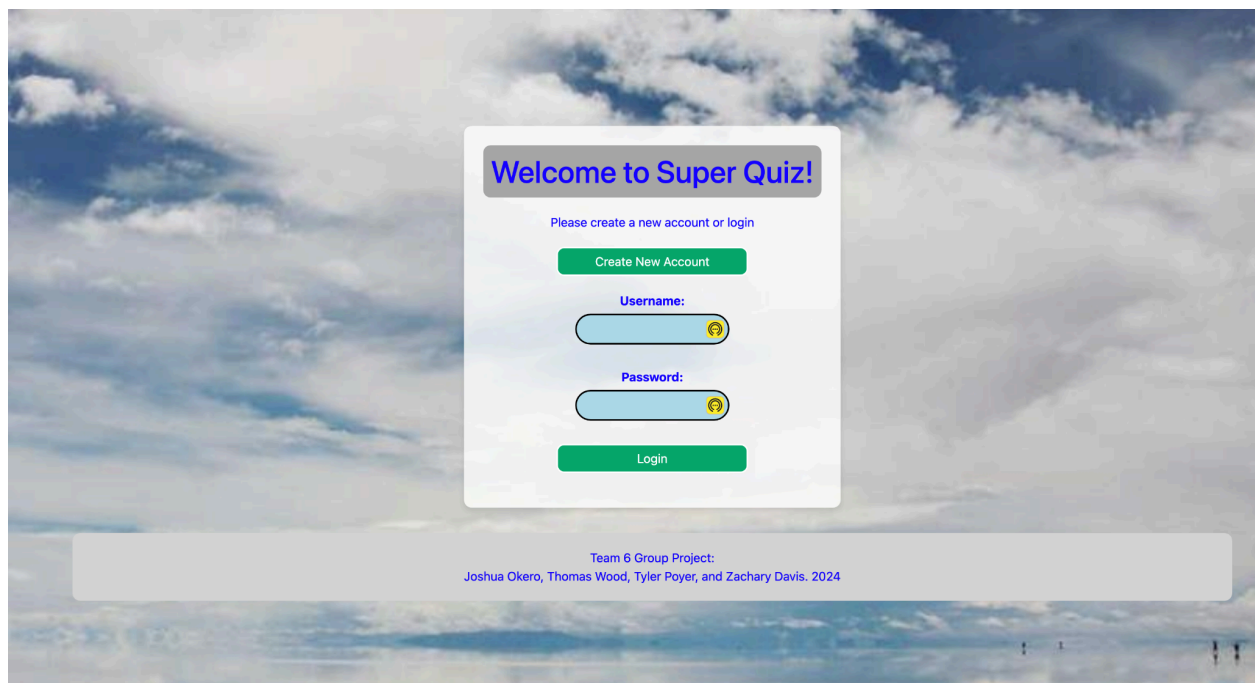
Zach - NodeJS Express Routes, DB queries, view display, redirects

Thomas - Views and client side javascript

Josh - Database Schemas

Tyler - CSS, Quality Assurance

Screenshots of Finished Product



Welcome test

Current score: 5

Modify User

Answer Question

Logout

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Modify User: test1

Name: test test

Enter Current Password: Current Password

New Password: At Least 6 Characters

Confirm New Password: Enter New Password Again

Check Only if Admin: ☐

Submit Changes

Logout

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Answer a question

Score: 5

What is the name of the 4-armed Chaos Witch from the 2016 video game "Battleborn"?

- ☐ Orendi
- ☐ Orendoo
- ☐ Oranda
- ☒ Randy

Sorry. You are incorrect!

New Question

Logout

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Welcome Thomas

Current score: 10

Modify User

Add Question

Answer Question

Logout

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Add questions

Select a category. Then uncheck any questions you don't want to add. You may want to revise other questions and answers. Then click submit to add the checked questions.

✓ Please Select
Video Games
Computer Science

Logout

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✓ What minimum level in the Defence skill is needed to equip Dragon Armour in the MMO RuneScape?

60 (correct)

65 (incorrect)

55 (incorrect)

70 (incorrect)

✓ Which of the following Pokemon Types was present in the original games, Red and Blue?

Ice (correct)

Steel (incorrect)

Dark (incorrect)

Fairy (incorrect)

✓ The most graphically violent game to precede the creation of the ESRB (Entertainment Software Rating Board) was...

Mortal Kombat (correct)

Duke Nukem (incorrect)

Resident Evil (incorrect)

Doom (incorrect)

Submit