Ostrich Algorithm Presents: Quise

A quiz taking website offering a wide range of topics to test your knowledge against other players around the world

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Quise: Game

Categories

General Knowledge | Entertainment: Books | Entertainment: Film | Entertainment: Music | Entertainment: Musicals and Theatres | Entertainment: Television | Entertainment: Video Games

Entertainment: Board Games | Science and Nature | Science: Computers | Science Mathematics | Mythology | Sports | Geography | History | Politics | Art | Celebrities | Animals | Vehicles

Entertainment: Comics | Science: Gadgets | Entertainment: Japanese Anime and Manga | Entertainment: Cartoon and Animations

Players can test their knowledge in different categories

- JS call to "Open Trivia" API
  - Call returns array of all categories

Quise: Question

7

In Roman Numerals, what does XL equate to?

15
90
60
40

Players can test their knowledge in different categories

- JS call to "Open Trivia" API
  - Call returns array of the question from the category with answer choices and the right answer
  - {question: "The programming language 'Swift' was created to replace what other programming language?",
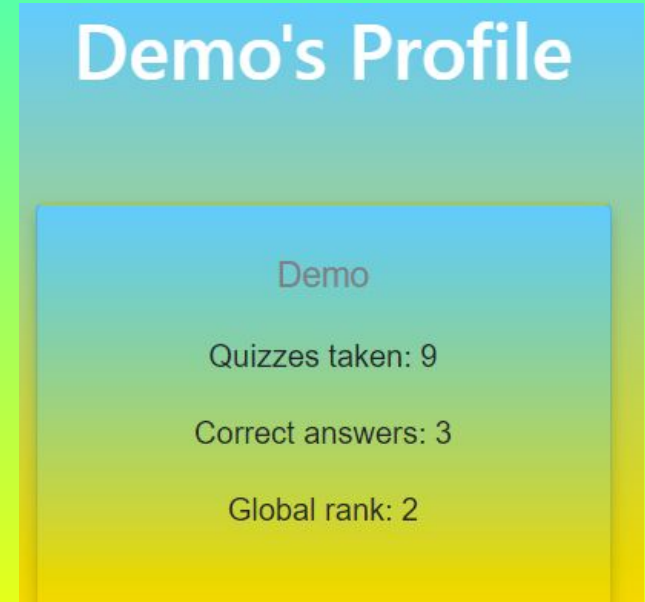
    answers: ['C#', 'Ruby', 'Objective-C', 'C++'],

    correct: 'Objective-C'}

Quise: Profile

You can see your rank in the profile page

- JS call to our SQL database
  - retrieves :
    - Number of Quizzes taken
    - How many were correct
    - Ranking

Demo's Profile

Demo

Quizzes taken: 9

Correct answers: 3

Global rank: 2

Quise: World Leaderboard

World Leaderboard
Here is The Worlds Best Quiz Takers

Rank	Name	Score
1	Tyson	45.45%
2	Demo	33.33%

If your really good you can see your ranking among the world on the leaderboard tabs

- JS call to our SQL database of the best players ranked by who has the highest correctness percentage

Tools Used

Everything out of 5

APIs & Frameworks

- **NodeJS** application server, **rating:** 5
- **Jest**, JS unit testing, **rating**: 5
- **Open TDB**, question generation API, **rating**: 5
- **EJS** - SSR, **rating:** 1   `<%= EJS %>`
- **ExpressJS** Middleware, **rating:** 5   Express **JS**
- **PostgresDB** DB management, **rating:** 3
- **Bcrypt** password hashing, **rating:** 4, (no logo)

OPEN TRIVIA DATABASE

Methodology: Agile

IDEs used for programming (or text editing)

- **WebStorm** Full IDE, **rating:** 5
- **VSCode** Crazy OP Editor, **rating:** 4.5
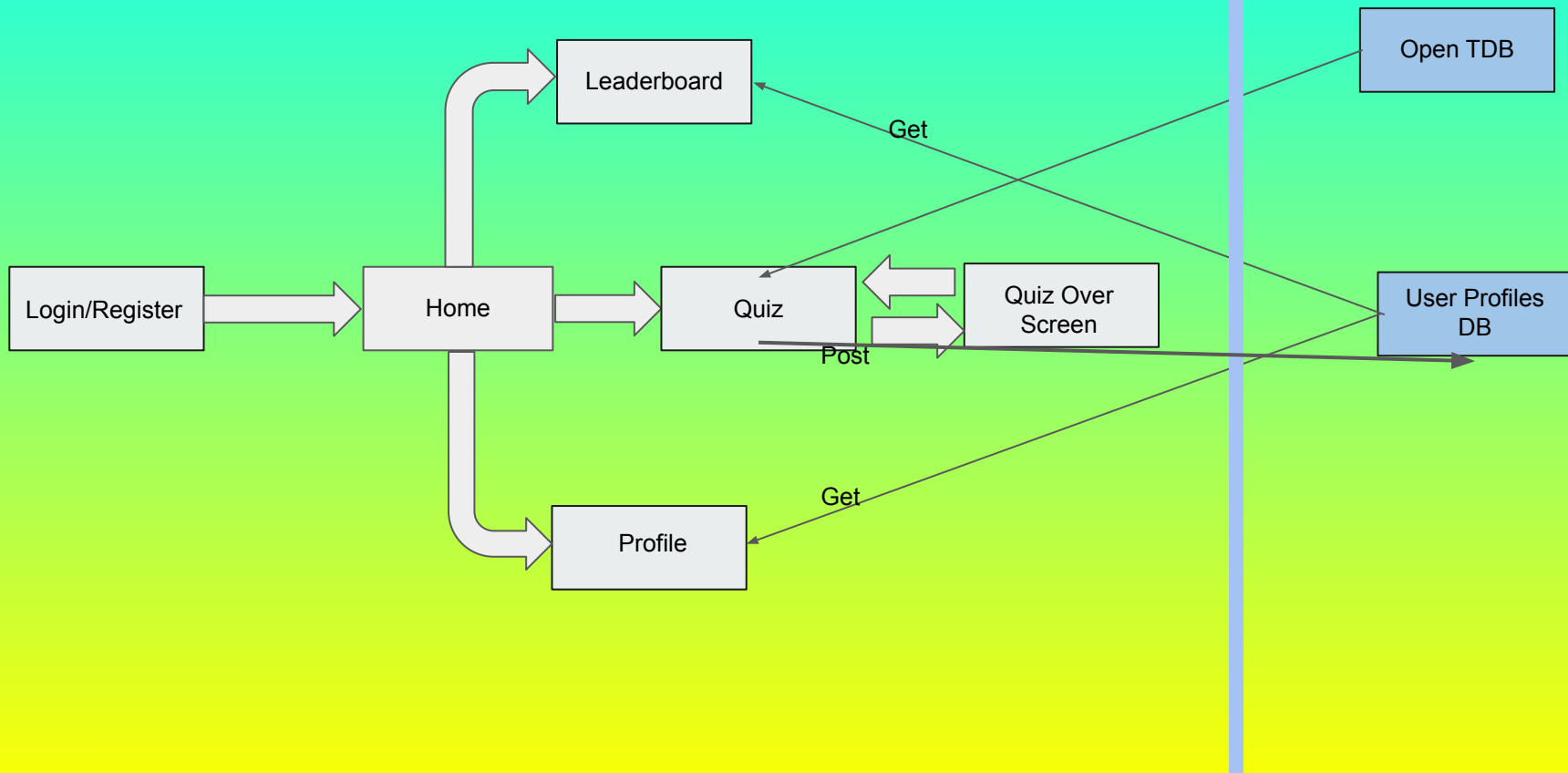- **Sublime Text 3** not even an IDE, but can be used for text editing. **Rating**: 3.5

VCS
- **GitHub** for VCS, **Rating:** 5

Deployment
- **CU VM Service** for hosting, **Rating:** 3

Architecture Diagram

Backend

Login/Register → Home

Home → Leaderboard

Home → Quiz

Home → Profile

Quiz ⇄ Quiz Over Screen

Open TDB — Get → Quiz

Quiz — Post → User Profiles DB

User Profiles DB — Get → Profile

Challenges

- The original quiz API we used for questions, jService didn't provide any potential incorrect answers to go along with the questions. We were able to find a new API partway through development to avoid the very time consuming process of trying to generate our own questions.
- We ran into a large amount of errors concerning the login page not functioning properly due to [somehow passing the wrong value to the hash functions]. The bcrypt.compare() function hashes the left input value but not the right input value, a minor change but a decent headache
- There was some Async code that needed to run for the quizzes to work, the countdown in particular. That took some deeper understanding of how EJS is rendering everything. The solution was to put async client code in a <script> tag that altered the DOM at runtime.
- We ran into some issues with front-end formatting regarding page spacing and margins for our header and footer but quickly corrected them through iterating.

A demo

SciQuiz (colorado.edu)

Video demo link

It's a good a show!

Who's presenting what?

1   **Tyson**
2
3
4
5   **Tyson**
6   **Simon**
7   **Simon willing to do this one too if necessary**
8
9