

MONSTER QUIZ

Online CS Postbaccalaureate Degree Capstone Project

Background: This is an implementation of project [Software Programming Quiz](#). Our team wants to build a full stack project to produce a website that has the basic functionalities of [SurveyMonkey](#). This website allows our users to CRUD a profile, to log in/out their account, and to create quizzes of all kinds of types of questions including True/False, multiple choice, and free-form answers. After creation of quizzes, a unique link to the quizzes would be generated and should be auto-emailed to the candidates that submitted by our users.

TEAM: WEST COAST APP MONSTERS

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<https://github.com/williamgl/CapstoneInFlask>

220 lines (179 sloc) | 7.36 KB

```
1 from flask import Flask, render_template, json, request, flash, redirect, session
2 import os
3 from flask_bootstrap import Bootstrap
4 import mysql.connector
5
6 app = Flask(__name__)
7 Bootstrap(app)
8
9
10 # Use this database to connect AWS RDS
11 my_db = mysql.connector.connect(
12     host="quiz.c8sskipdbis.us-west-2.rds.amazonaws.com",
13     user="admin",
14     password="database1",
15     database="quiz"
16 )
17 app.config['SECRET_KEY'] = 'secret'
18
19 """
20 Use this database to connect your local database
21 my_db = mysql.connector.connect(
22     host="127.0.0.1",
23     user="root",
24     database="quiz"
25 )
26 """
27
28 # Routes
29 @app.route('/')
30 def root():
31     return redirect("/index")
32
33
34
35 @app.route('/index')
36 def index():
37     return render_template("index.j2")
38
39
40 @app.route('/login', methods=['GET', 'POST'])
41 def login():
42     if request.method == 'POST':
43         userDetails = request.form
44         username = userDetails['username']
45         cur = my_db.cursor(dictionary=True)
46         cur.execute("SELECT * FROM users WHERE username=%s;" % (username, ))
47         user = cur.fetchone()
48         if userDetails['password'] == user['password']:
49             session['login'] = True
50             session['username'] = user['username']
```

Home Create a New Quiz View My Quizzes About Log Out

Create New Quiz

Time Allowed (in Minutes)

Due Date (YYYY-MM-DD)

Create

Home Create a New Quiz View My Quizzes About Log Out

Add New Question

Question Description

Score

Question Type:

Choice A

Choice B

Choice C

Choice D

Correct Answer (Must Match One Choice Unless Free-From Question)

Create

Finish adding the last question?
[Still in implementation](#) [Generate link for candidate!](#)

Home Create a New Quiz View My Quizzes About Log Out

Welcome williamgl! You have been successfully logged in

Welcome, williamgl!

This is your account page.

Currently, this is just a welcome page.

Please create new quizzes using the "Create a New Quiz" button at the top navigation bar.

(This user story is still in implementation.) You may create unique link and send email to candidates to take after creating a new quiz.

Please click on the "View My Quizzes" button to view your saved quizzes.

(This user story is still in implementation.) You may add candidates emails and then create unique links for your saved quizzes.

Please click on the "Log Out" button to log out when you finished using Monster Quiz.

README.MD

CS467 Capstone Project Using Flask

Run it locally

1. run `pip3 install --user virtualenv`

2. run `python3 -m venv .` or `python3 -m venv ./venv` to set up virtual environment

3. run `source ./bin/activate` or `source ./venv/bin/activate` to start the virtual environment (`deactivate` to close)

4. run `pip3 install flask-mysqldb` and `pip3 install mysql` to install database packages

5. run `pip3 install flask` and `pip3 install mysql-connector`

6. run `pip3 install flask-bootstrap`

7. install all packages in requirements.txt

8. run `python3 app.py` to view current result.

Database

1. change the database option in app.py

2. if you are running it using AWS RDS, no further actions needed

3. if you are running it locally, install mysql in your laptop

4. cd to the database folder

5. access to your local mysql server,

6. `CREATE DATABASE quiz;`

7. `USE DATABASE quiz;`

8. `source DDL.sql;`

Run it on OSU server

1. upload everything on the server

2. run `pip3 install gunicorn`

3. run `pip3 install mysql-connector`

4. run `gunicorn -b 0.0.0.0:28572 -D app:app`

To view my current result

1. connect OSU VPN

2. access website: <http://flip1.engr.oregonstate.edu:28572/>

Home Create a New Quiz View My Quizzes About Log Out

My Quiz List

[Add New Quiz](#)

quiz_id	total_time	due_date			
4	100	2023-01-01	View Quiz	(Still in implementation) Add Candidate and Generate Link	Delete Quiz
6	10	2022-12-01	View Quiz	(Still in implementation) Add Candidate and Generate Link	Delete Quiz
7	15	1994-08-20	View Quiz	(Still in implementation) Add Candidate and Generate Link	Delete Quiz

Home Create a New Quiz View My Quizzes About Log Out

Questions in the Selected Quiz

[Add New Question](#)

question_id	question	score	type_name	answer	choice1	choice2	choice3	choice4	
1	2+2=?	1.0	Multiple Choice	4	1	2	3	4	Delete Question
2	5!=?	2.0	Multiple Choice	120	1	2	3	120	Delete Question

Not Secure | flip1.engr.oregonstate.edu:28572/index

OSU 学习 Programming ぎんこ 其他 Pepper 工作 Amazon White Noise Enjoy programming

Home About Create a New Account Log In

Welcome to Monster Quiz!

Home

This is the homepage of our project.

This is an online quiz creator like SurveyMonkey.

Log In

Please click on the "Login" button at the top right corner.

This Login page allows users to log in.

Sign Up

Please click on "Create a New Account" button at the top right corner.

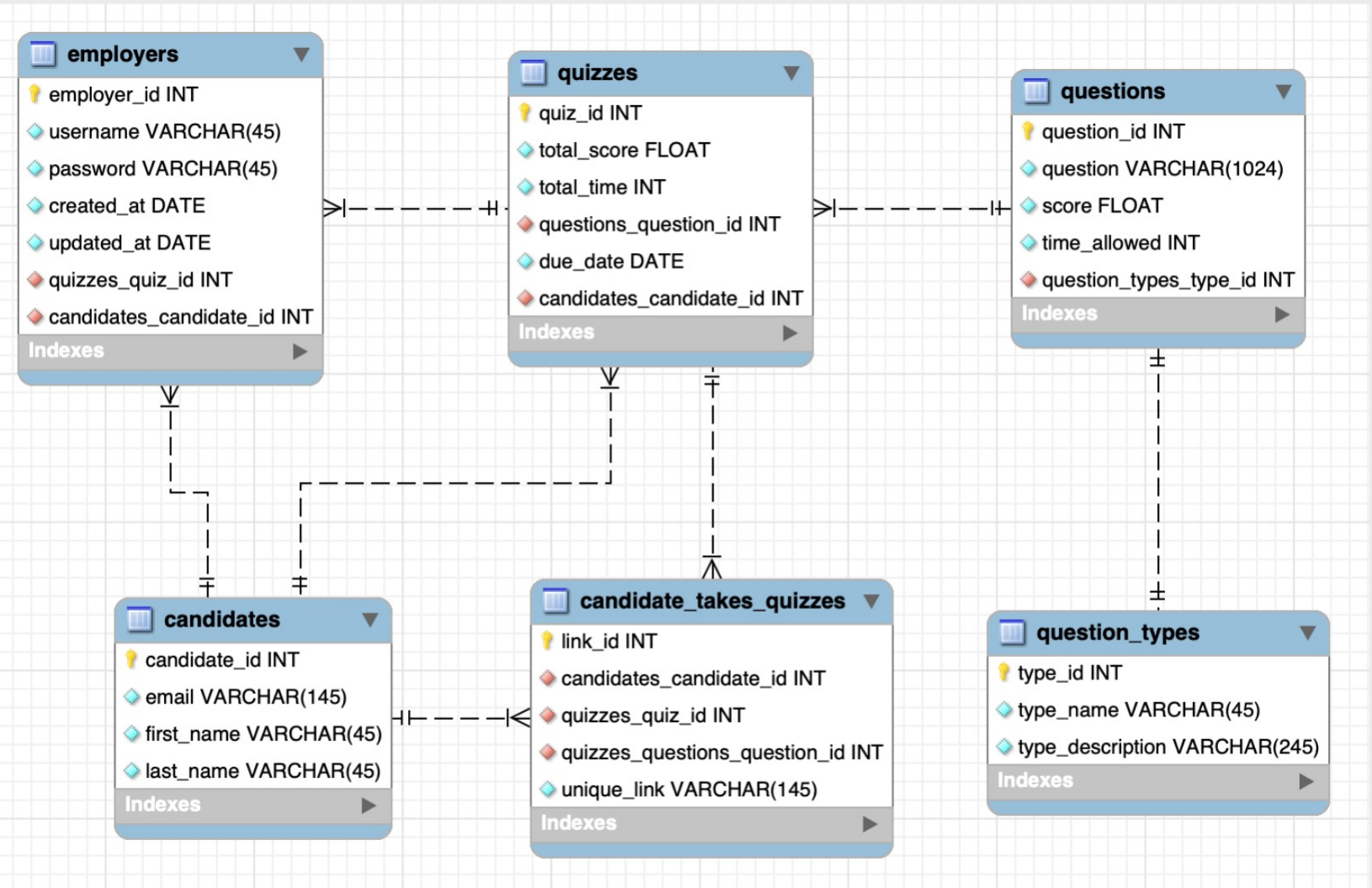
This page will allow users to create new account.

About

This is to check our website status.

FEATURES

- Using Database to simulate the structure of a quiz and questions
- Database running on AWS Relational Databases for free
- APIs implementing in Python 3.8 using Flask Framework
- Frontend by Jinja and deployed by render
- Supporting admin user to add question types in the future
- Easy to be deployed to local area network for company level internal usage



MOTIVATION

The team hopes to demonstrate full stack skills in programming a project and we are using agile project management methods. By the end of the term, the team hopes to show a Data-based full stack web application, which can realize the functionality of one-to-many distribution of questionnaires, collection of questionnaire answers, and statistics of answers to questions. We will apply widely used technologies to this app, such as AWS, Vue, Django, and Flask. Through the implementation of this project, we can master these cutting-edge technologies. Due to time constraints, the project has not been fully implemented. The team has many good ideas, proposals, and user stories but we only have ten weeks to work together. We are looking forward to perfecting the project.

