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Overview

For this coding challenge, you are to build out a simple web application using React and Express. Feel free to use either JavaScript or TypeScript, whichever you are most comfortable with.

Documents that will be provided to you include:

- wireframe.pdf that contains a wireframe with some examples of the UI (this is meant as reference only)
- database.sql as a reference for how the MySQL DB is setup
- database-diagram.png as a visual reference of how the MySQL DB is setup
- database.config that contains DB connection information to the remote DB
- assets folder that contains image assets

Database (MySQL)

- Notes:
 - Here are some additional clarifications on the Database schema
 - University
 - One University has several Courses
 - One University is linked to only one Country
 - o Course
 - One Course belongs to one University
 - One Course is linked to only one Education Level
 - When displaying the Scholarships for the Course Card:
 - The Scholarship's university must match the Course's university
 - The Scholarship's education level must match the Course's education level
 - When calculating the avg tuition fees, you should calculate the average of all Courses related to the University

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Frontend (React)

• Requirements:

- Build a Courses Page that contains text at the top section
- Build search boxes to filter the Course Cards
 - 1st search box should allow searching for both university and course names
 - 2nd search box should allow searching for education levels
 - 3rd search box should allow searching for country names
- Build Course Cards that displays the Course information
 - Each course should only be displayed once (no duplicates, only one Card per Course)
- For all background images, use: https://picsum.photos/400/100
- For all square images, use: https://picsum.photos/100/100

• Restrictions:

- React functional components
- Raw CSS only (.css file), no UI libraries (Bootstrap, Material UI, AntD, etc)
- Pages should be responsive from 320x568 to 1920x1080

• Notes:

- o Since this is a simple app for displaying only, Redux is not needed
- You will determine how the pages will look like at different screen sizes
- You have the freedom to change the styling to be different from the examples given, as long as the layout remains the same

Backend (Express)

• Requirements:

- Connect to the DB and retrieve data for the courses page
 - Remember to group scholarships properly to each Course
- Allow search functionality for university_name, course_name, level_name and country_name

• Restrictions:

- Raw SQL only, no ORMs or query builders (you can use mysql2 package)
- Prioritize async / await syntax over promise then / catch and callback syntax

Notes:

- Names in the wireframe map to column names in the DB
- Names in the wireframe that do not exist on the DB should be calculated / derived
 - e.g., avg_annual_tuition