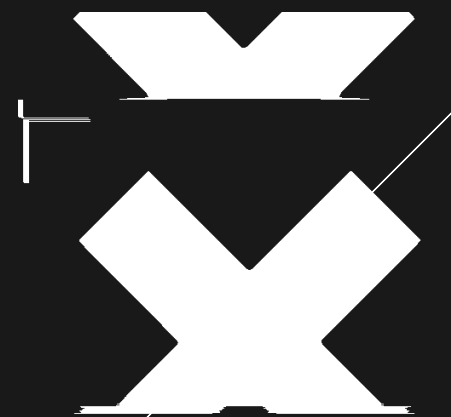




IWT PROJECT

EZ Courses – Video Course Platform

submitted to: Dr. Sanjay Saxena



THE TEAM



Byomokesh Senapati

B120017

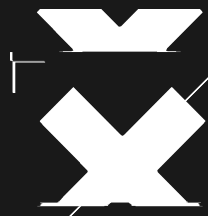
CSE(2020-24)



Piyush Mishra

B120041

CSE(2020-24)



PROJECT DESCRIPTION

EZ Courses is an online learning and teaching marketplace. It allows instructors to build online courses on their preferred topics. Its learning experience arranges coursework into a series of modules and lessons that includes videos in playlist format.





TECHNOLOGY USED

1 Front End

2 Back End

3 Database



FRONT END



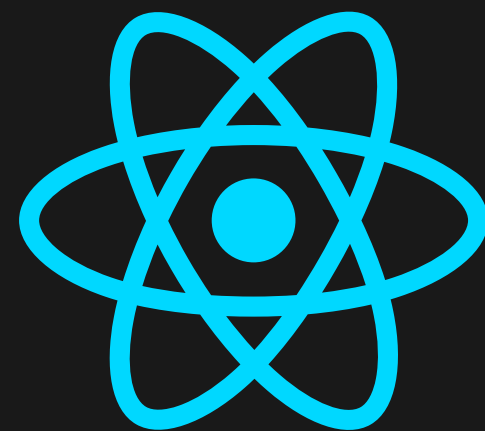
HTML



CSS



JS



React JS



Mantine UI Library

X

BACK END



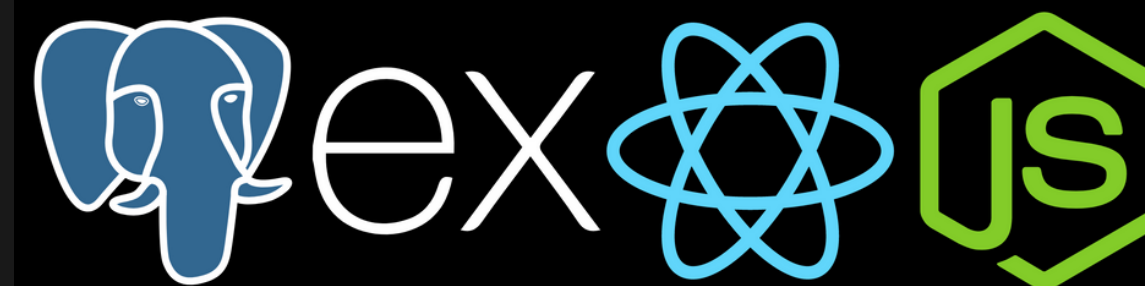
Node JS



Axios

Express

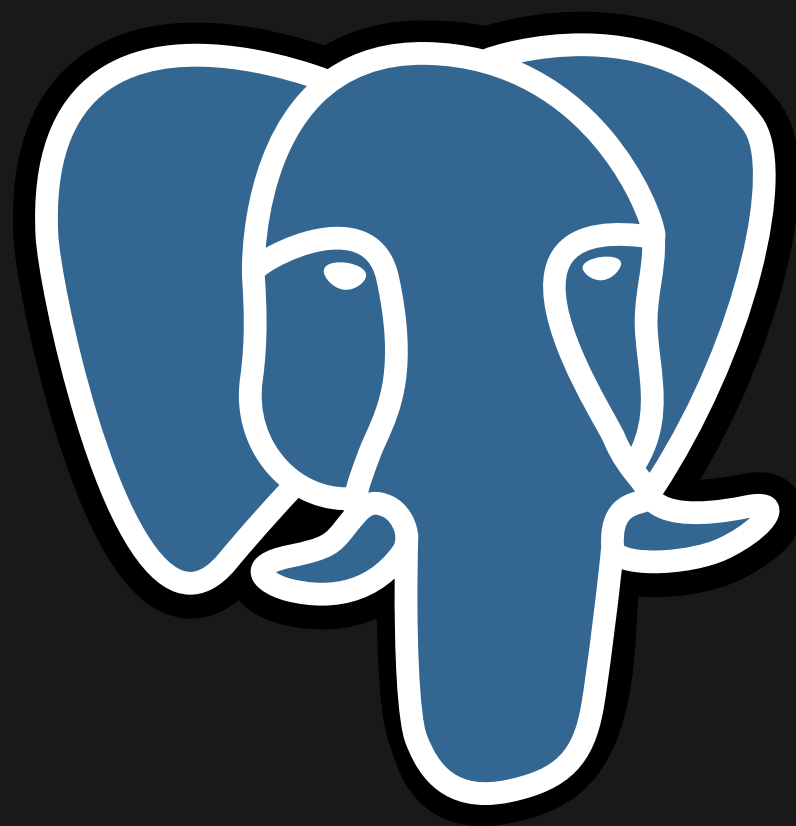
Express



Express PG Library



DATABASE



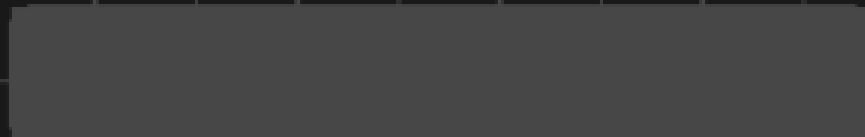
Postgres SQL

(remote db hosted on Railway)





SOME FRONTEND SCREENSHOTS



List of Courses

Add Course

COURSE ID: 31926211-DE03-4ADF-8C11-93BCFF496595

React Course v1 >

@ Bruce Wayne

COURSE ID: F4C7C350-5C9A-42C4-9D8C-FADC6D2CBE8E

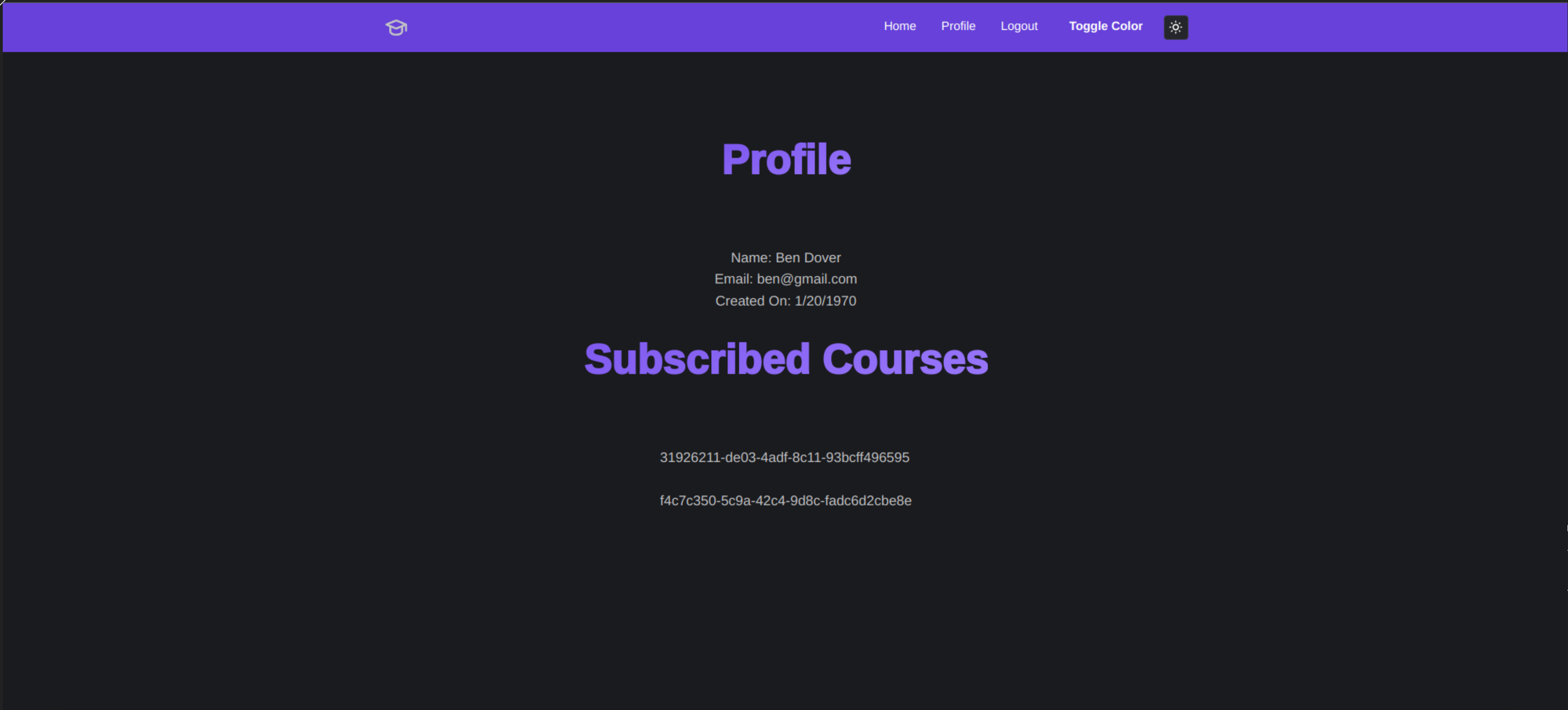
Docker Course >

@ Clark Kent


COURSE ID: BE2A14B4-3FE0-4F21-BD75-2B67193B8C50

Redis Course >

@ Hal Jordan





Profile Page




Intro to Class Components | Class Components in React tutorial

Watch laterShareInfo

1. Class Components Section intro


MORE VIDEOS


0:00 / 3:34 • Intro


YouTube

Course Page

Course ID: 31926211-de03-4adf-8c11-93bcff496595

Intro to Class Components | Class Components in React tutorial >

ES6 (JavaScript) classes review | Class Components in React tutorial >

Pass props to Class Components | Class Components in React tutorial >

BACKEND PIPELINE



Register & Login

Register and login to your account which is facilitated by the React Context API and passwords are hashed by bcrypt using the JWT token architecture.



Subscribe to a course

Courses are available in the main page of the platform to which the users can subscribe and the courses can be viewed directly from the Home page or from their Profile page.



Protected Routes

Protected routes are setup to verify the users and add a method to view and access the pages with proper authorization.

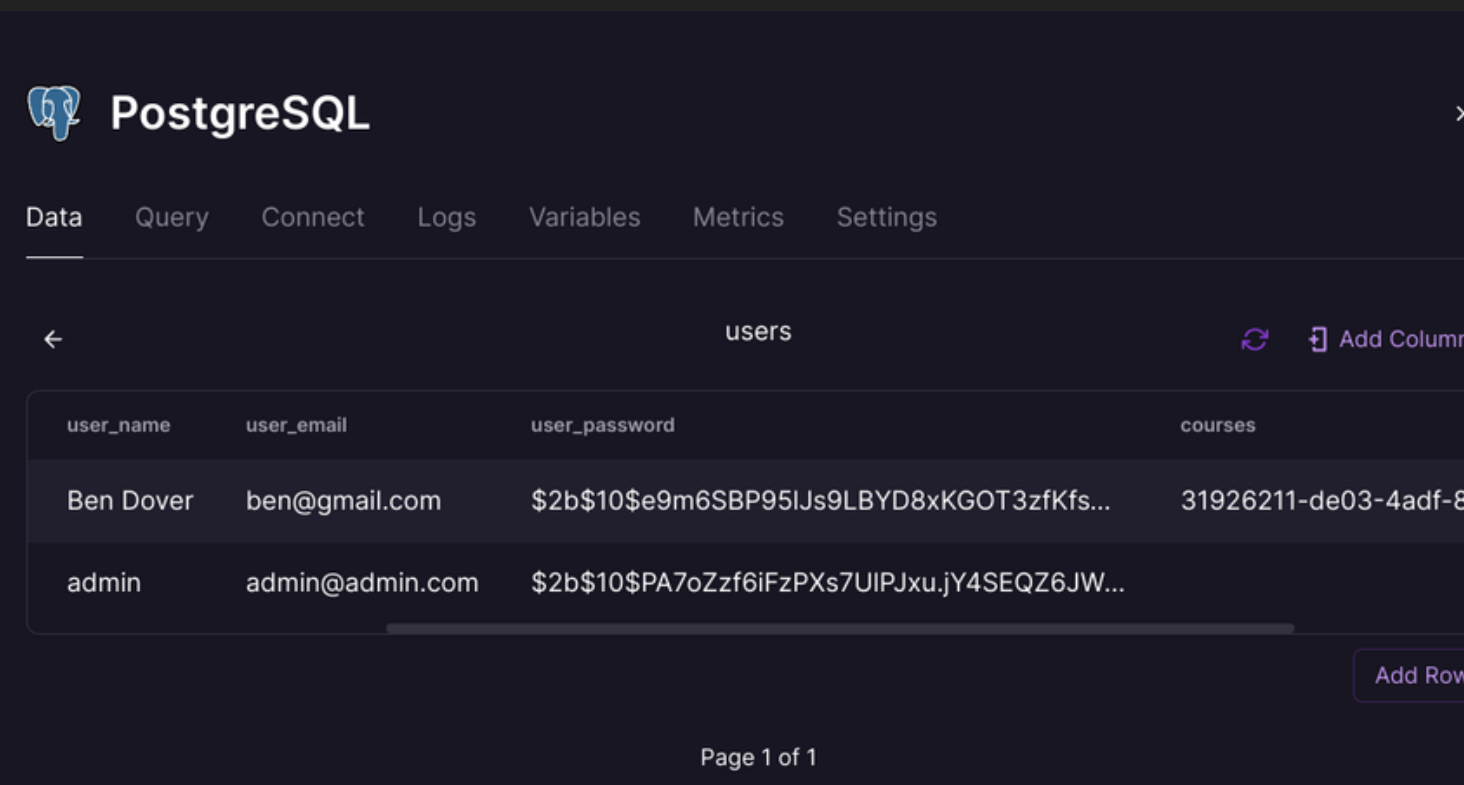
DATABASE SCHEMA

Users Table

```
users
  user_id : random generated string by postgres
  user_name : name of the user
  user_email : email of the user
  user_password : hashed password by bcrypt
  courses : array containing the id of the courses subscri
```

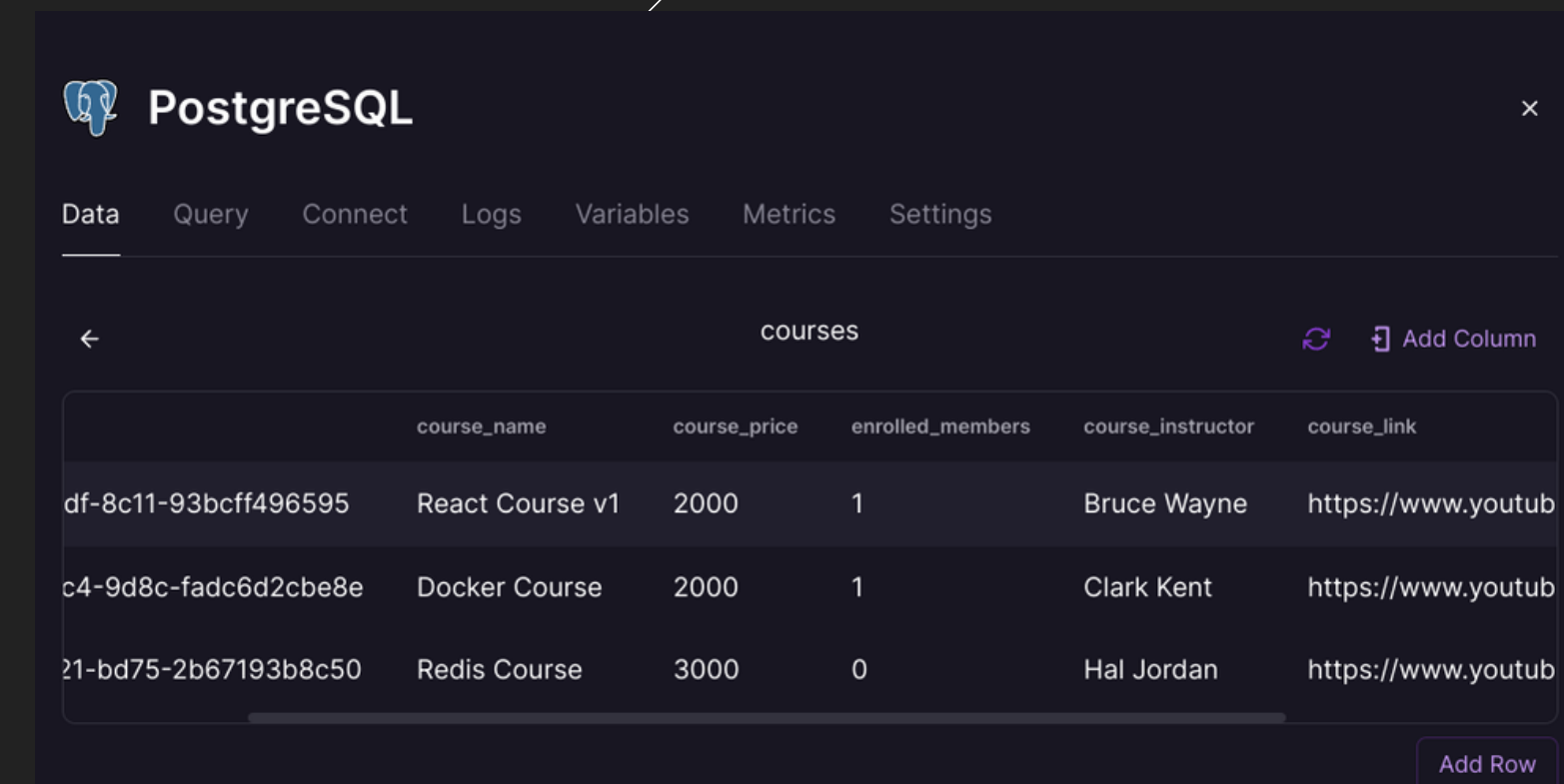
Courses Table

```
courses
  course_id : random generated string by postgres
  course_name : name of the course
  course_instructor : instructor of the course
  course_price : price of the course
  enrolled_members : no of users subscribed to the course
  course_link : YouTube playlist link of the courses
```



PostgreSQL interface showing the 'users' table. The table has columns: user_name, user_email, user_password, and courses. It contains 2 rows of data.

| user_name | user_email | user_password | courses |
|-----------|-----------------|---|--------------------------|
| Ben Dover | ben@gmail.com | \$2b\$10\$e9m6SBP95lJs9LBYD8xKGOT3zfKfs... | 31926211-de03-4adf-8c... |
| admin | admin@admin.com | \$2b\$10\$PA7oZzf6iFzPXs7UIPJxu.jY4SEQZ6JW... | |



PostgreSQL interface showing the 'courses' table. The table has columns: course_name, course_price, enrolled_members, course_instructor, and course_link. It contains 3 rows of data.

| course_name | course_price | enrolled_members | course_instructor | course_link |
|-----------------|--------------|------------------|-------------------|-----------------------|
| React Course v1 | 2000 | 1 | Bruce Wayne | https://www.youtub... |
| Docker Course | 2000 | 1 | Clark Kent | https://www.youtub... |
| Redis Course | 3000 | 0 | Hal Jordan | https://www.youtub... |

DB as viewed on Railway



Thank You