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Workbook

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Kello!

## HELLO, I'M BRILU!

Hey there! I'm Lebogang Brilu Zechaniah, a budding web developer with a flair for web and graphic design. I'm just getting my feet wet in the field, but I've already worked on some awesome projects. In addition to my skills in web development and design, I also hold a qualification in mathematics and statistics. Even though I'm still honing my skills, I'm confident that I've got a knack for this. Let's create something amazing together!



# INDIVIDUAL PROJECT

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My term 1 project was an NBA website that offers detailed statistics for different teams. This site provides comprehensive data on team performance, including player stats, game results, and historical comparisons. Whether you're a die-hard fan or a casual follower, my website delivers all the stats you need to stay informed and engaged with the latest in the NBA. It's designed to be user-friendly and visually appealing, ensuring you have an enjoyable experience while exploring the world of basketball.



The homepage features interactive modals for notable players and a bar graph showing monthly points and assists for the Boston Celtics. Below the graph, a table displays static team stats, and a snippet video showcases the best dunks. A side navigation bar allows easy access to various sections, including team comparisons and game highlights, ensuring a seamless and engaging user experience.

The comparison page features a header video showcasing the recent top 100 NBA dunks. Below, the page displays data on the wins and losses of teams in both the Eastern and Western Conferences, ranking them from best (1) to worst (15). This layout allows users to easily compare team performances and standings.



The timeline page features a header video showcasing recent NBA highlights. Below, it displays game points for players in the 2020 season and conference ranks for teams in the 2021 Eastern Conference using bar charts. This layout provides users with detailed historical performance data and visual comparisons of players and teams.

<https://youtu.be/Kals5h9Ycyg> - NBA Code Explanation

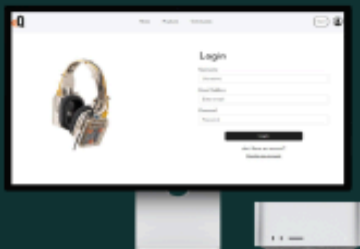
[https://youtu.be/seaq3eG\\_8ZI](https://youtu.be/seaq3eG_8ZI) - Demo Video

# GROUP PROJECT

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For our group project, we aimed to incorporate a community element into our website, allowing everyone, not just admins, to post and create content. This vision led to the creation of EQ, featuring a sleek UI inspired by the stylish headphones showcased on our site and a user experience driven by community engagement.



The Authentication required us to make our first model and routes files. Connecting to the backend gave us some trouble.

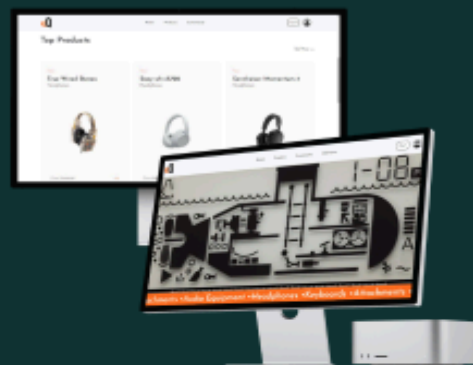
At first we did the login flow in the front end, moving it to the backend was crucial in understanding the usefulness of routes.

The snippet showcases a sample of our login route. After understanding this several other features become far easier, such as the top 3 component, and deliveries page.

Liking and Commenting occurs on the Single Product Page.

Liking a product updates the product's liked field, which stores a String array of who liked the product. Displayed all a users liked products uses an endpoint to return all the products that contain the current username in the liked string array.

The solution effectively addresses the challenge by allowing the backend to handle filtering logic, which reduces the amount of data sent to the client and offloads processing from the client to the server. It ensures that only relevant products are fetched and displayed based on the user's selection, enhancing performance and user experience.



Adding products to a cart created some challenges. We created new routes and model for both the cart and the deliveries pages.

The cart only renders user specific cart items, using a useContext to store the username and get data with the matching user details. Checking out the items to the cart clears these items from the cart and posts them to the deliveries. The deliveries page is admin only, and displays all deliveries grouped by order number and user.