

# Anyware Software (Fullstack Challenge)

## Project Spec:

This project should present student quizzes and announcements data for the current semester.

Create a full-stack application that looks like the image below using (React and Redux) for the frontend part (TypeScript), and

(Express.js or Nest.js and MongoDB) for the backend.

## Frontend Part:

- This dashboard should be rendered only to the logged-in users. Make a log-in/out button on the home page

that allows the user to login without any username or password. If the user is logged in, the dashboard is

shown, otherwise, the home page is shown. Make a Higher Order Component (HOC) called `requireAuth` that

renders the dashboard component only to logged-in users and redirects other users to the home page.

- The whole challenge should be responsive and can fit to any screen size.
- The application must be built using reusable components as much as you can.
- Use Material UI component .
- The background and foreground of the links in the sidebar must be changed to white when the mouse hovers on it.

- Prepare your application to be translated in the future using the i10n concept and packages.

- Use your favorite test library to apply unit tests and integration tests to verify your code.

- There is no restriction on the colors and the fonts. Use your own favorites.

You are free to use any package in React.js. If you choose a framework that generates boilerplate code, please

specify in the README which code was written by you.

## Backend Part:

- Create a web service that will be used to retrieve all announcement data.
- Create a web service that will be used to retrieve all of the quiz data.
- Make all of the CRUD operations for the announcement and quiz.

Be aware that we will mainly take into consideration the following evaluation criteria:

- How clean and structured your code is.
- How you follow Best Practices in your code.
- If you implemented the business rules correctly.

## Delivery:

- Upload your code to a GitHub account, send the URL and specify the time you spent writing the challenge.
- Video shows the design.
- (Optional) Deploy the challenge into one of the free platforms (Example: <https://www.heroku.com/>)

The screenshot displays the Coligo dashboard. On the left is a dark blue sidebar with the 'Coligo' logo at the top and several navigation icons: a home icon for 'Dashboard', a calendar for 'Schedule', a document for 'Courses', a graduation cap for 'Gradebook', a line graph for 'Performance', and a megaphone for 'Announcement'. The main content area has a light blue header with 'Welcome Talia,' on the left, a search bar in the center, and notification icons (bell, envelope, and profile) on the right. Below the header is a large 'EXAMS TIME' banner with a motivational quote from Albert Einstein and a 'View exams tips' button. To the right of the banner is an illustration of a laptop, calculator, and papers. Below the banner are two side-by-side sections: 'Announcements' on the left, listing messages from Mr. Ahmed Mostafa, Mrs. Salma Ahmed, School management, and an Events Manager; and 'What's due' on the right, listing a 'Unit 2 quiz' for Physics 02 and a '12-12 Assignment' for Arabic K12, each with a corresponding action button ('Start Quiz' and 'Solve Assignment').