

# Web Development Intern - Home Assignment

## Assignment Overview:

### Objective:

Develop a platform that enables users to register, log in, view a list of courses, and enroll in courses. The application should utilize React.js for the frontend, Spring Boot for the backend and free feel to utilise dev-ops tools of your own choice.

### Requirements:

#### 1. Frontend: [React.js]

- Develop a user interface comprising:
  - Registration and login pages.
  - A dashboard listing available courses.
  - An enrollment page for course registration.
- Use React Router for seamless navigation.
- Ensure the design is responsive and user-friendly.

#### 2. Backend: [Spring Boot/NodeJS]

- Implement a RESTful API to support frontend functionalities:
  - User registration and authentication.
  - Retrieval of course data.
  - Course enrollment functionality.
- Implement authentication and authorization.
- Implement robust error handling.

#### 3. Database: SQL/NoSQL

- Design and optimize the database schema for storing user and course data.
- Ensure secure and efficient database interactions.

#### 4. [Preferred] AWS Integration (Feel free to use any other hosting platforms):

- Deploy the backend service on AWS EC2 for scalability.
- Utilize AWS S3 for static asset storage (if applicable).
- Implement Docker to containerize the application for simplified deployment.

### Submission Guidelines:

1. Create a GitHub repository containing your project code. Share the repository link with us.
2. Include a detailed README.md file in your repository covering:
  - Project description.

- Steps to set up and run the project locally.
  - Any assumptions or design decisions made during development.
3. Submit your assignment by email to [stealthmode.techgurukul@gmail.com](mailto:stealthmode.techgurukul@gmail.com) with the subject "Web Development Intern Home Assignment - [Your Name]".

**Evaluation Criteria:**

- Evaluate based on code quality, organization, and application functionality.
- Assess adherence to best coding practices.
- Review efficient use of AWS services and database performance.
- Consider Docker implementation as bonus points.

**Deadline:** Submit your assignment within one weeks of receiving this email.

Best of luck! We look forward to reviewing your innovative solutions and potential contributions to our team.

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