

## Deliverables

- Spring Boot project source code with the implemented RESTful API and H2 database integration.
- Integration test cases for the API endocints
- React frontend application source code consuming the API and providing the required user interface for book management
- Documentation explaining the project structure, setup instructions, and any additional notes deemed necessary.
- Please follow the requirements and deliverables mentioned above to build a Spring Boot RESTful API with CRUD operations for managing a collection of books in an HZ database, integrated with a React frontend

Use Spring Initializr to create a new Spring Boot project with the required dependencies Use Spring Data JPA to handle database interactions, including CRUD operations

Implement front end functionality to add, edit, and delete employee data using the API endpoints.

Use Maven for project management. This includes build, dependency and documentation

Use Postman to test API endpoints

Ensure proper error handling and display appropriate messages to the user in case of API errors.

Set up an H2 in-memory database as the persistence layer for storing book data Implement integration tests for the API endpoints using a testing framework Use a popular library or framework (e.g., Axios) to handle API requests and responses in the React frontend.

Create a Book entity with the following properties: title, author, description, and publication year

Set up CORS (Cross-Origin Resource Sharing) configuration to allow the React frontend to access the API. Design the frontend with a user-friendly interface, allowing intuitive interaction with the book collection.

Implement RESTful API endpoints to support CRUD

Create a React frontend application to consume the API and provide a user interface for managing the book collection.

Implement a framework that allows for the incentivisation of employee action

Ensure proper validation of request payloads and handle appropriate error responses

Display a list of all employees with their relevant details on the frontend.