

# Java Enterprise Edition 2 + React JS

Spring Semester 2021

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## TASK 3

### Problem 1

Develop a simple full stack application by using ReactJS + Spring Boot Framework.

As a CSS Library, you may use Bootstrap or MaterializeCSS.

The Project is related with "Trello Task Manager". You must create an application according to given back-end requirements and front-end design.

As a back-end application, you will use **Spring Boot + Spring Data (JPA Repository) + MySQL or PostgreSQL**.

Create entities (use Lombok):

#### **Cards.java**

- Long id;
- String name;
- Date addedDate;

#### **CardTasks.java**

- Long id;
- @ManyToOne*
  - Cards card;
- String taskText;
- Date addedDate;
- boolean done;

Create Repositories for entities.

Create Services for all CRUD operations with all entities.

Create REST Controllers for managing with all entities.

After deploying Spring Boot server API, start developing front-end ReactJS client application.

As a state, use React Hooks.

Use React Router DOM for routing your pages.

Divide your project into components.

The front-end design should be something like this:

