



News application project

This is a project challenge to get to know your skills, please consider doing this.

Due time:
two or three days.

TECHNICAL SPECS:

Use your tech stack of your choice and build an application with below stack. Your problem-solving skills and way of thinking matters to us.

- 1- Java 11+
- 2- Spring and Spring Boot
- 3- Spring Data
- 4- mongoDB
- 5- Docker
- 6- Maven

WHAT WE NEED TO CONSIDER IN YOUR PROJECT CHALLENGE:

- **DEFINING A GIT FLOW INSIDE YOUR PROJECT.**
- **WE SHOULD BE ABLE TO SEE YOUR GIT HISTORY IN THAT PROJECT (PLEASE DO NOT APPLY A SINGLE COMMIT FOR ALL THE PROJECT FILES).**
- **WRITING UNIT TESTS IS MANDATORY.**
- **IT IS A PLUS IF YOU CONSIDER USING A PIPELINE TO BUILD, TEST AND DEPLOY YOUR APPLICATION USING GITHUB ACTIONS/ GITLAB RUNNER OR ANY OTHER CI/CD TOOL.**
- **DATA FLOW MUST BE DEFINED IN A PROPER WAY AND PLEASE USE THE ARCHITECTURE OF YOUR CHOICE TO BUILD THIS APPLICATION.**
- **YOU CAN USE THIRD PARTY LIBRARIES AND FRAMEWORKS IF YOU NEED.**



User flow:

MANDATORY FUNCTIONALITIES:

You should build APIs for a task management system like Jira or Trello.

Firstly provide a proper user management system. It means user can register in system with username and password. Password must persist in database encrypted.

After successful login system should send a bearer token and this token should be in header as "Authorization" in each request. Before doing any thing system should validate this token.

The customer should be able to register in the system firstly. Then must be able to create, edit, read and delete boards. Each board could contain one or more cards. So we need also APIs for adding cards to boards, also each card could be edited, read and deleted and also user should be able to assign/unassign member (user) to card. All data should be store in mongoDB.

APIs are like:

- /api/signUp [POST]
- /api/login [GET]
- /api/board [POST, GET, PUT, DELETE]
- /api/board/:boardId/cards [POST, PUT, GET, DELETE]

Fields in board:

- Id
- boardName
- createdOn
- modifiedOn
- creatorId



Fields in card:

- id
- cardTitle
- boardId
- createdOn
- modifiedOn
- members

MUST TO HAVE FUNCTIONALITIES:

- **SEARCH THROUGH CARDS BY CARDTITLE**

NICE TO HAVE FUNCTIONALITIES:

- **SEARCH CARDS BY MEMBERS**
- **GET CARDS SORTED BY MODIFIEDON**

What is next?

This task should be completed within two or three days at most. Please upload your project to your GitHub and send us the link via email after you have completed it. We will provide further instructions as soon as possible.