

Project management system complete web application using

Java Spring REST API and MVC

Technology Use

For MVC-> html, bootstrap3,jsp,jstl,jquery ajax, JavaScript.

For Rest API-> Use: Java jdk-8, Spring Security, JPA, JSP

(Java jdk-8, Spring Security (XML Based), JPA ORM technology, Database use Oracle SQL,PLSQL)

Make Jasper Report

User Stories

- User can register himself by username and password and email address which will be save an user
- No anonymous users are allowed to use the system. They will be redirected to login page for login.
- After login (using username/password), show a list of project generated for a particular date range (by default the current month) in tabular format. This date range can be selected/changed by the user and the result will be shown accordingly
- Allow the authenticated users to create new project which will be saved in DB. You can use in-memory DB or any other DB of your choice. Note that you should show proper error messages on form submission when invalid data is submitted.

The project will contain:

- name: Project name
- intro: Project introduce
- owner: Project owner (own)
- status: Project status can be pre: 0, start: 1, end: 3
- startDateTime: Project start date time, format: yyyy-MM-dd, if project status is pre, it should be null
- endDateTime: Project end date time, format: yyyy-MM-dd
- projectMembers: User can add other users as a member (optional), Any user can be the project member (maximum 5 members will allow)

Actions:

- Allow owner to edit a project entry
- Allow the user to delete a project entity.
- **Create a jasper report**: that will show all the projects information with status in a particular date range
- Create a REST API to get project list (GET /api/v1/projects) which will return all the projects in JSON format

- Consume this REST API, show it in html page:

<https://reqres.in/api/users/2>

Please consider following:

- Ask for confirmation before deleting any project entry
- Make the UI responsive and beautiful. You can use any UI framework if needed.
- It will be nice if you give form validation in client side too using **JavaScript**