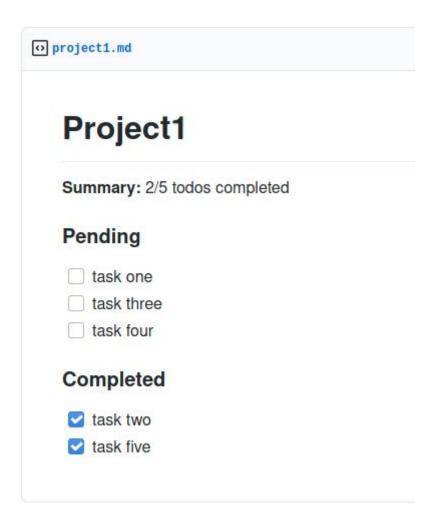
Requirement

Develop a <u>Java/Kotlin Spring Boot application with a frontend</u> application to manage todos. The submitted solution should have the following capabilities:

- 1. Authenticate/Login with Github OAuth API (Scope: gist)
- 2. Create a new project.
- 3. Within a project:
 - a. Manage todos Add, Edit, Update and Mark as complete.
 - b. Export the project summary as gist (Github).
- 4. Export as gist
 - a. Generate the project summary in markdown format and export the content as a secret gist.
- 5. The exported gist should be in the following format:
 - a. File name as <Project title>.md (Markdown)
 - b. Project title as heading.
 - c. Summary: No. of pending todos / Total todos.
 - d. Section1: Task list of pending todos (with an open checkbox).
 - e. Section2: Task list of completed todos (with a checked box).
 - f. See the attached sample on expectations.

Expectations

- 1. Selected schema/representation should atleast have the following items:
 - a. **Project**: Unique Id, Title, Created Date, List of Todos.
 - b. Todo: Unique Id, Description, Status, Created Date, Updated Date.
- 2. Application should request users to login with the **Github OAuth API with gist scope**. (This is required to write gists on a user's behalf.)
- 3. Application should **NOT** allow any users to proceed without authentication. On successful login, the user should be redirected to the home page.
- 4. Home page should have provisions to:
 - a. Create a new project.
 - b. List all projects.
 - c. View a project.
- 5. Create/View project should provide a detailed project view with the following details:
 - a. Project title. (Editable)
 - b. List all todos with description, date and completion status.
 - c. Actions to Add/Update/Remove a todo.
 - d. Mark a todo as pending or complete.
 - e. Action to export summary as a secret gist.
- 6. Once exported as gist, the user should be able to find it on Github. (Acceptance/Verification)
- 7. Proper code conventions and style guide (package, names, indentation etc).
- 8. Secret gist template/format, assuming `Project1` having a total of 5 todos, out of which 2 are completed:



Bonus Points

1. Using a decent frontend framework or styling guide to represent data. Eg. React/Angular/Vue with Bootstrap or Tailwind CSS.

Constraints

- 1. Submission should happen in not more than 2 weeks from the date of receiving the problem.
- 2. The application should have a frontend user experience, and not API only.
- 3. Store all the details in a database of choice (RDBMS or Non-RDBMS) and show these on a webpage.
- 4. Integrate with Github gists API. https://docs.github.com/en/free-pro-team@latest/rest/reference/gists
- 5. Do not use any existing feature/capability libraries for integrating with github. However, you can use OAuth 2.0 libraries of choice.
- 6. You can use any HTTP library (WebClient, RestTemplate, Apache, OkHttp, ...) to fetch the data.
- 7. Code should have proper README on how to setup, run and test for a reviewer.
- 8. Minimum 80% code coverage using any testing library.

Delivery

- 1. Host your code in Github **private** repository and invite <u>careers@hatio.in</u> as a collaborator. [Help]
- 2. Optionally host your solution on a publicly accessible web server.