

GitHub Repository Tracker Application

Overview: Create a Web application to keep track of a GitHub users public repositories and notify the system users about the public repositories

Objective: As a company policy no employee is allowed to created any public repositories, this app will allow the IT team to enforce this policy effectively, IT team will able to quickly monitor across all the 270 employees if any violation of the policy is made

Features:

1. Allowing adding/removing **GitHub usernames** to the application
 - a. Provide UI for valid system user with credentials to add the data using UI form
 - b. Provide feature to import a list of GitHub usernames from a CSV file
2. Create a Dashboard that will show the count of total GitHub accounts added in the system and total count of public repositories
3. Create a Email notification system that will notify the users in the notification list via email about any new public repository added by the GitHub user registered in the system.

Technical Details:

- Frontend will be developed using ReactJS (TypeScript)
- Backend will be developed using NESTJS
- Database : PostgreSQL
- Unit Testing: Jest

Note: Create a GitHub Application so that you can access the GitHub REST API to get the details of GitHub user and their repositories.

References:

1. <https://docs.github.com/en/developers/apps/getting-started-with-apps/about-apps>
2. <https://docs.github.com/en/rest/apps/apps>
3. <https://medium.com/@knidarkness/creating-a-github-app-with-node-js-3bda731d45b9>
4. <https://stackoverflow.com/questions/59197747/get-the-list-of-repositories-of-users-from-github>
5. <https://stackoverflow.com/questions/40590415/get-all-public-github-repostories-of-user-with-javascript-node-js>