Proiect PW

1. Description

The project will be a Web Application, meant to help an open source initiative of creating a software exploration framework. The project is not standalone, it will be integrated in the bigger picture.

Because software projects are getting bigger and bigger, the need for them to be automatically and constantly reviewed grows. In order to do that, we need tools. In order to process the huge amount of data brought in by the analysis tools, and for humans to understand these results, we need visualisation tools.

But a visualisation method does not always suit a project structure. In order to make the project look “pretty” in a certain visualisation type, you often need to make adjustments to its structure. This is what this project will facilitate. You will be able to “restructure” the project in order to make it easier to explore, while keeping a mapping between the 2 “versions” of the project.

1. Requirements:
   1. Login

As a user I want to be able to Login

* 1. Select project

As a user I want to be able to choose a saved project

* 1. Create new project

As a user I want to be able to create a new project

* 1. Import a project

As a user I want to be able to import a project from a specified repository

* 1. Visualize the project hierarchy

As a user I want to be able to see the hierarchy of the project

* 1. Modify the project hierarchy

As a user I want to be able to modify the hierarchy of the project

* 1. Create the mapping (optional)

As a user I want to be able to see the old name of the file (mapping)

* 1. Notify collisions (optional)

As a user I want to be announced if collisions because of my modifications

1. Specifications:
   1. Frontend framework: Angular 4
      1. PrimeNg
      2. Npm
      3. AngularCLI
   2. Backend framework: Spring
      1. Spring security (for login)
      2. Spring web (for REST Api)
   3. Database: Mysql / Firebase (for start)
   4. IDEs:
      1. IntelliJ IDEA
      2. WebStorm