

# ProTester

Automated WEB UI, SQL and REST Actions Testing Tool

Brought to You by

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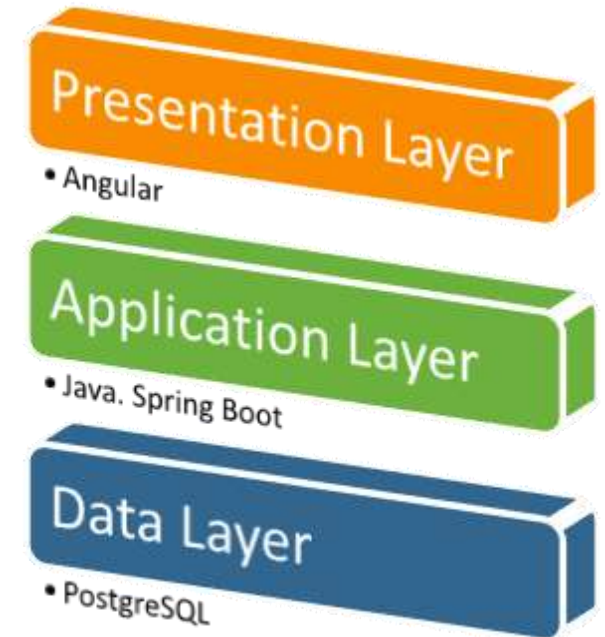


## **Purpose of ProTester Tool:**

- **Automated Testing of**
  - WEB User Interface
  - SQL Queries
  - REST Actions
- **Analyzing of Performed Tests**

## Architecture of ProTester:

- Angular as Presentation Layer
- Java. Spring Boot as Application Layer
- PostgreSQL as Data Layer





## Frontend

- Angular 11
- Angular Material 11
- HTML 5
- CSS 3
- TypeScript 4
- primeNG 11

## Backend

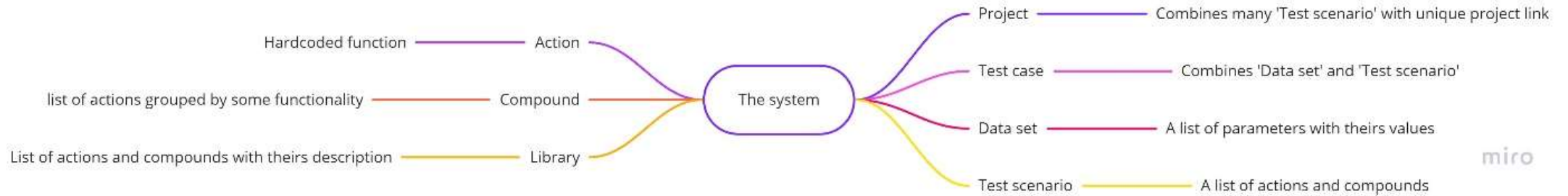
- Java 11
- Spring Framework
  - Boot 2.4
  - Security
  - REST
  - JDBC
  - Web Sockets
- Maven
- Selenium

## Data

- PostgreSQL 42

## Other Stuff

- GitHub
- Heroku
- Figma
- Slack
- Jira



ProTester has a rather complex system of object hierarchy.

It can be described as folder structure for better understanding.

- Libraries
  - Actions
  - Compounds
- Test Cases
  - + Data Sets
  - + Test Scenarios
    - Actions
    - Compounds



Live Presentation →





- Backend JWTUtils class
- Frontend
  - Library List and Manage
  - Compounds List and Manage
  - Test Scenarios List and Manage
- Setup Database on Heroku Hosting





- **Backend**
  - Action (Repository Level) / Compound / Test Scenario
  - Test Case Result
  - Backend: Mail Service, Password Restore
- **Frontend Navigation**
- **Database design in cooperation with Herman Smoliar**
- **CI setup**



- **Backend**
  - Authorization, Registration
  - Mange User Profile
  - Dataset, Environment
  - Run Test Case
  - Analyze Test Case
- **Frontend**
  - Test Case
  - Actions



- **Backend**
  - Project manage
  - Manage Test Case
  - Heroku Deploy
- **Frontend**
  - Authorization, Registration
  - Project, Environment manage
  - Header
  - Run Test Case
  - Analyze Test Case ( SQL, Rest, Technical Actions, Websockets, UI Action)



- GitHub (Previously GitLab) Repository Setup
- Jira Tasks Organization
- Figma Mockups
  - Login & Password Recovery
  - Test Case / Test Scenario / Data Set
  - Test Case Run & Analyze
- Frontend
  - Password Recovery
  - Users List, View & Edit
  - Test Scenarios Result Table
- Project Icon & Presentation



- Database (ERD)
- Figma Mockups
  - Library
  - Action
  - Compound
  - Users List, View & Edit
  - Project
- Backend Library
- Frontend Dataset



Thank You for  
Your Attention!