**Full Stack Automation Final Project**

***This project was created to demonstrate my knowledge and skills in Automation Testing.***

***About***

The project demonstrates a smart automation infrastructure. It is built in hierarchical order of modules. The modules contain several classes with methods. There are main/common /actions/page object modules. In this way, the tests can be created in a very simple way with a minimum line of code. Also, the infrastructure allows us to work with different kinds of applications. **A big advantage of the infrastructure is that it can be easily maintained!**

***Project Overview***

The project is an example of infrastructure for automation testing of different kinds of applications:

* Web based application
* Mobile application
* Web API
* Electron application
* Desktop application

***Infrastructure project includes using of:***

* Page Object Design Pattern
* Project Layers (Extensions/Work Flows/Test Cases...)
* Support of Different Clients/Browsers
* Failure Mechanism
* Common Functionality
* External Files Support
* Reporting System (including screenshots and screen recordings)
* Visual Testing
* DB support
* CI support

***List of applications were used in this project:***

* [Grafana](https://grafana.com/grafana/) - Web based Grafana site
* Metric Conversions - Mobile application
* [Students.jar](http://localhost:9000/student/list/) - Test API(need download for it)
* Electron application - Todolist App application
* Desktop application - Windows calculator

***Tools & Frameworks used in the project:***

* Listeners - interface used to generate logs and EventFiringWebDriver module.
* MySQL Free Online DB - used for login to Swag Labs web page and fill information in the Checkout page
* [Jenkins](https://www.jenkins.io/)- for tests execution
* REST Assured - for API testing
* [Allure Reports](http://allure.qatools.ru/)- as the main reporting system