

Task for Demo

Core framework

Implement test automation framework for Web UI and API testing with the next required features:

- Use Page Objects pattern
- Use OOP principles
- Can be run from command line
- Implement 6 positive tests (UI)
- Implement 4 negative tests (UI)
- Implement 5 API tests
- Default report / results should be generated
- Use XPATH and CSS locators
- Use implicit/explicit waits

Max grade for this framework is 100:

- 60 max for core framework
- 40 max for implementation of all additional tasks (see table below)

Additional tasks

Student can select and implement additional task(s) from table below and earn extra points:

Feature	Description	Grade
Running tests by some suites from command line	Add ability to run group of tests as a suite: like "smoke", "regression" from command line Execute "smoke" tests	5
Allure report	Integrate allure report Show report after run	5
API testing + tokens	Call some API, get token and pass it to next request (authorization)	10
Execute tests on multiple browsers	<ul style="list-style-type: none">• Tests on Chrome, Edge, FF should give the same results• Set command line parameter - on which browser to run tests	10
Run tests in parallel	Run tests in parallel: <ul style="list-style-type: none">• Same tests run in different browsers• Or tests run in parallel in the same browser to save time Make sure they pass	10

Application under test (Web UI / API) <https://github.com/bkimminich/juice-shop>, should be setup locally by each student.

Setup:

1. Install node.js v14
 2. Run git clone <https://github.com/bkimminich/juice-shop.git> or download sources as .zip
 3. Go into the cloned folder with `cd juice-shop`
 4. Run `npm install` (only has to be done before first start)
 5. Run `npm start`
 6. Browse to `http://localhost:3000` using your browser
- Each app restart will cause data to reset, so after each `npm start` app state will have the same condition. App restart should be done before all tests started and after all tests finished (could be restarted manually).
 - More documentation about app <https://owasp.org/www-project-juice-shop/> (optional to read)

Flows which should be automated:

- Login and user registration positive and negative
- Add/remove items to the basket and complete purchase flow
- Change user profile info and photo upload
- Buying last items and checking if items are marked as sold-out
- Leaving customer feedback with rating 3
- Opening any social media from "About Us" page: