TAF-PLAYMUSICMARKET

TEST AUTOMATION FRAMEWORK (TAF) UI AND API TESTING - HTTPS://STAGE.PLAYMUSICMARKET.STORE

A staging site is a clone of your live website that is used for testing changes before making them live

IULIA HOLOSTENCO

PLAYMUSICMARKET
Otherwise the music forever stay in you

UI

API

DRIVER | ENTITY | PAGE | STEPS | UTILS

LISTENER

MODEL | POJO | SERVICE | SPECIFICATION | UTILS

PROJECT STRUCTURE

TEST CASE - UI AQA TEST AUTHORIZED

AuthorizedPageTest

Back-end

- Postgres/Hasura for storing relational app data
- Hasura backend plus for JWT-based user auth
- IPFS for media storage and hash-based content addressing
- Fastify NodeJS api/app server

TEST CASE - UI AQA TEST EDIT PROFILE

EditProfilePageTest

TEST CASE - UI AQA TEST HOME

HomePageTest

TEST CASE - UI AQA TEST LOGIN

LoginPageTest

TEST CASE - UI AQA TEST SEARCH RESULT

SearchResultTest
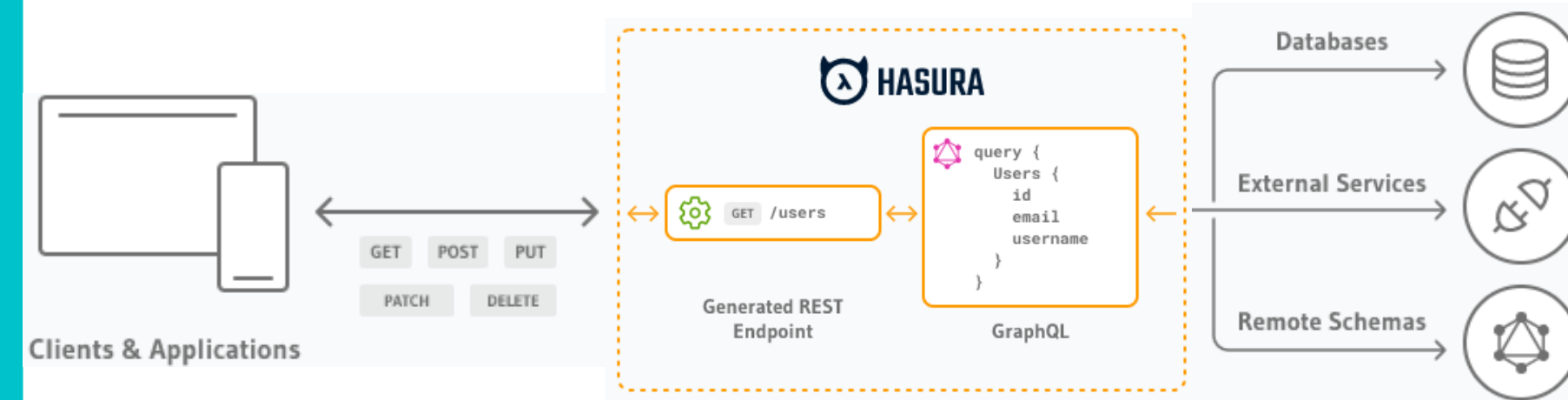
LoginApiTest

TEST CASE - API AQA TEST LOGIN

PROPERTY FILE FOR PASSWORD STORAGE

SELENIUM WEBDRIVER LAUNCH THE BROWSER WITHOUT CREATING A VISUAL BROWSER WINDOW

.addArguments("--headless")

INITIALIZING THE WEBDRIVER OBJECT AS A THREAD LOCAL FOR PARALLEL TEST EXECUTION

ThreadLocal<WebDriver>

USE IN TESTS: JAVA STREAMS

stream().map(WebElement::getText)
.filter(elementName -> e

FACTORY PATTERN FOR TEST AUTOMATION

CREATING ALLURE REPORTS IN SELENIUM AND TESTNG
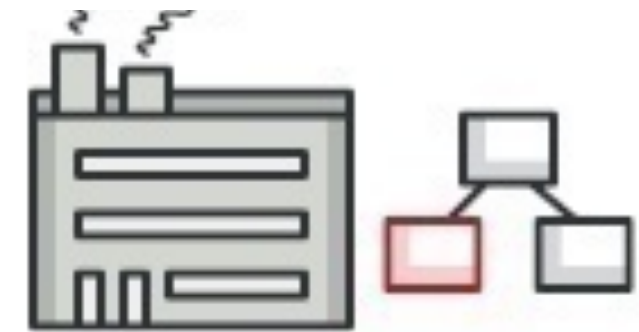
#1 testEditProfileEmptyCredentials   1s 791ms
#2 testEditProfileWithCorrectCredentials   3s 578ms
#3 testEditProfileWithInCorrectEmail   2s 415ms

UI TESTING LOG MESSAGES

API TESTING

THE DTO PATTERN (DATA TRANSFER OBJECT)

USING POJO + LOMBOK IN REST ASSURED

ALLURE REPORT FOR REST ASSURED API

```
@Data
@AllArgsConstructor
@Builder
public class User {
    private final String email;
    private final String password;
}
```

Passed **testLoginUserNotValidEmailPasswordRandomValues**

Overview | History | Retries

Severity: normal

Duration: ⏱ 3s 452ms

Execution

∨ Test body

∨ ▤ request   ▤419 B ✕
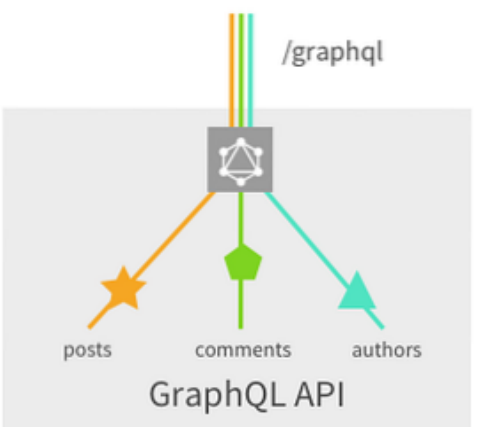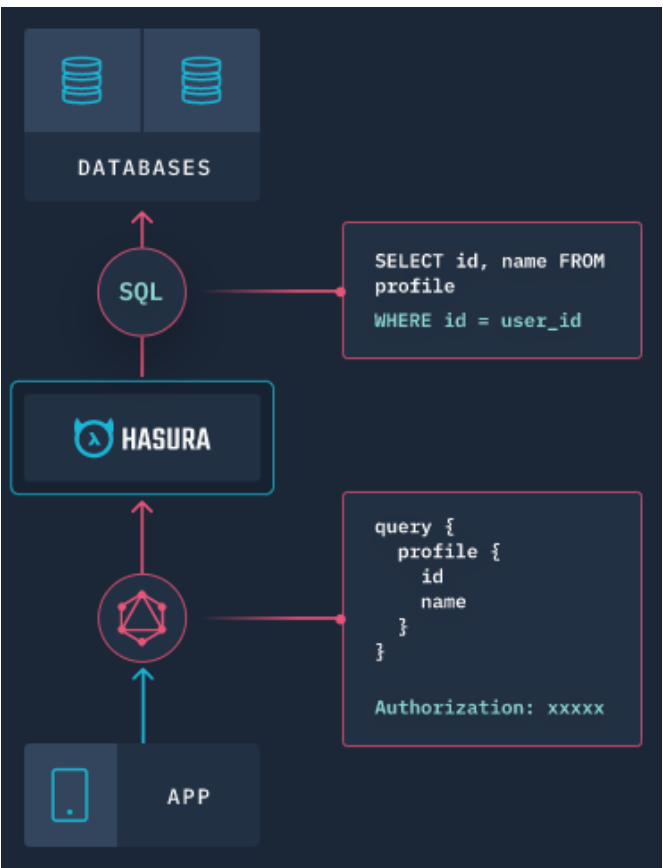
Request method: POST
Request URI:
Proxy: <none>
Request params: <none>
Query params: <none>
Form params: <none>
Path params: <none>
Headers: Accept=application/json, application/javascript, text/javascript, text/json
                            Content-Type=application/json
Cookies: <none>
Multiparts: <none>
Body:
{
    "email": "wybWQLNWBN@gmail.com",
    "password": "FplE7xzy1G"
}

∨ ▤ response   ▤217 B ✕

HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=utf-8
Date: Sat, 27 Aug 2022 15:47:58 GMT
Etag: "1se9ec2"
Server: Caddy
Transfer-Encoding: chunked
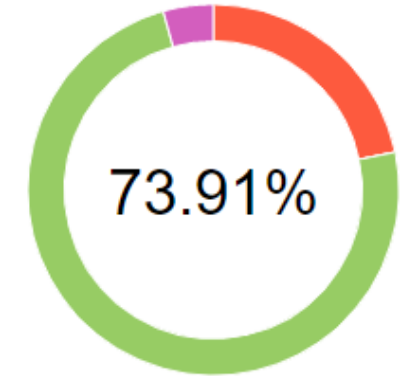
{
    "message": "Login failed"
}
```

DATABASES

SELECT id, name FROM profile
WHERE id = user_id

**HASURA**

```
query {
    profile {
        id
        name
    }
}
```

Authorization: xxxxx

APP

/posts /comments /authors

REST API

/graphql

posts   comments   authors

GraphQL API

```
{
"query": "mutation MyMutation { update_currentuser(where: {bio: {}}, _set: {}) { affected_rows returning { twitter bio } }}"
}
```

JSON Body

```
mutation MyMutation {
    update_currentuser(where: {bio: {}}, _set: {}) {
        affected_rows
        returning {
            twitter
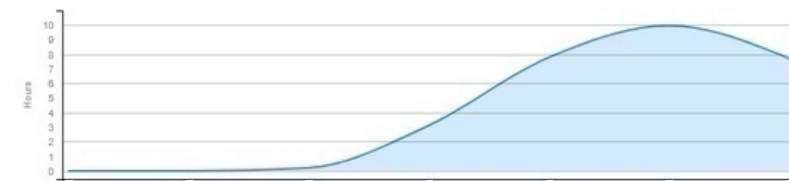            bio
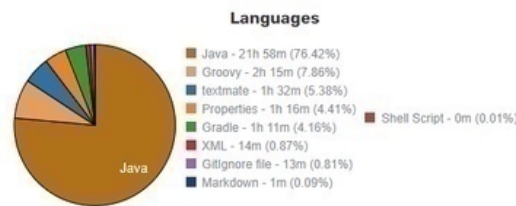        }
    }
}
```

GraphQL Query

REPORT

DeskTime Time Tracking

ALLURE REPORT

23
test cases

73.91%

Projects

28 hrs 45 mins over the Last 7 Days

total 28 hrs 45 mins

Languages

- Java - 21h 58m (76.42%)
- Groovy - 2h 15m (7.86%)
- textmate - 1h 32m (5.38%)
- Properties - 1h 16m (4.41%)
- Gradle - 1h 11m (4.16%)
- XML - 14m (0.87%)
- GitIgnore file - 13m (0.81%)
- Markdown - 1m (0.09%)
- Shell Script - 0m (0.01%)

Java

Editors

- IntelliJ - 28h 45m (100.00%)

IntelliJ

SUITES 1 item total

Gradle suite

5   17   1

10 test cases

- testTextLabelHomePage
- testIsDisplayedElementsAuthorizedPage
- testIsDisplayedImageNameCard
- testLoginUserCorrectEmailPassword
- testLoginUserNotValidEmailPasswordRandomValues
- testFollowersFollowingAmount
- testSearchWithIncorrectQuery
- testLoginUserNotValidNamePasswordRandomValues
- testSearchWithEmptyQuery
- testIsDisplayedButtonHomePage

Categories

Status: 5 0 0 0 0   Marks:

order	name	duration	status

Product defects

	#1	testSearchWithResultPartPresentName	1s 352ms
	#1	testSearchWithResultHashTagPartPresentName	1s 462ms
	#1	testLoginFormWithCorrectEmailCredentials	2s 460ms
	#1	testLoginWithEmptyPasswordCredentials	1s 638ms
	#1	testLoginWithEmptyUsernameEmailCredentials	1s 731ms

order	name	duration	status	Status: 5 17 0 1 Marks:

Gradle suite

Gradle test

	#1	testLoginUserCorrectEmailPassword	0s
	#2	testLoginUserEmptyNamePassword	2s 737ms
	#3	testLoginUserNotValidEmailPasswordRandomValues	203ms
	#4	testLoginUserNotValidNamePasswordRandomValues	200ms
	#1	test	1s 384ms
	#2	testFollowersFollowingAmount	667ms
	#3	testIsDisplayedElementsAuthorizedPage	868ms
	#1	testEditProfileEmptyCredentials	1s 870ms
	#2	testEditProfileWithCorrectCredentials	3s 459ms
	#3	testEditProfileWithCorrectEmail	2s 476ms
	#1	testIsDisplayedButtonHomePage	669ms
	#2	testIsDisplayedImageNameCardArtwork	299ms
	#3	testTextLabelHomePage	157ms
	#1	testLoginFormWithCorrectEmailCredentials	2s 460ms
	#2	testLoginWithEmptyCredentials	1s 844ms
	#3	testLoginWithEmptyPasswordCredentials	1s 638ms
	#4	testLoginWithEmptyUsernameEmailCredentials	1s 731ms
	#5	testLoginWithIncorrectCredentials	1s 398ms
	#1	testSearchWithEmptyQuery	794ms
	#2	testSearchWithIncorrectQuery	811ms
	#3	testSearchWithResultHashTagPartPresentName	1s 462ms
	#4	testSearchWithResultNameMatchedQuery	8s 079ms
	#5	testSearchWithResultPartPresentName	1s 352ms

NOTE

I've built test automation tools and frameworks that can be used by any engineer to build reliable tests with great code coverage, aligned to company "PLAYMUSICMARKET" needs.

When creating the Test Automation Framework, I consider the following main points:

- To be able to create automated tests quickly by using appropriate abstraction layers
- The framework should have meaningful logging and reporting structure
- Should be easily maintainable and extendable
- Should be simple enough for testers to write automated tests
- A retry mechanism to rerun failed tests - this is especially useful for WebDriver UI and REST Assured tests