

TAF-RARETOSHI

TEST AUTOMATION FRAMEWORK (TAF) UI AND API TESTING - [HTTPS://STAGE.RARETOSHI.COM](https://stage.raretoshi.com)

Raretoshi is the first NFT platform that uses the Bitcoin Liquid Network instead of Ethereum or Counterparty.

ALIAKSANDR ZASINETS



BUILD TOOL: "GRADLE"
CI/CD: "JENKINS"

UI

DRIVER

ENTITY

PAGE

STEPS

UTILS

LISTENER

TEST CASE - UI AQA TEST
AUTHORIZED

AuthorizedPageTest

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
NFT SEARCH RESULT

NftSearchResultTest

PROJECT STRUCTURE

API

FRAMEWORK:
"TESTNG", "REST-ASSURED",
"SELENIUM", "LOG4J",
"ALLURE" ,"LOMBOK"

MODEL

POJO

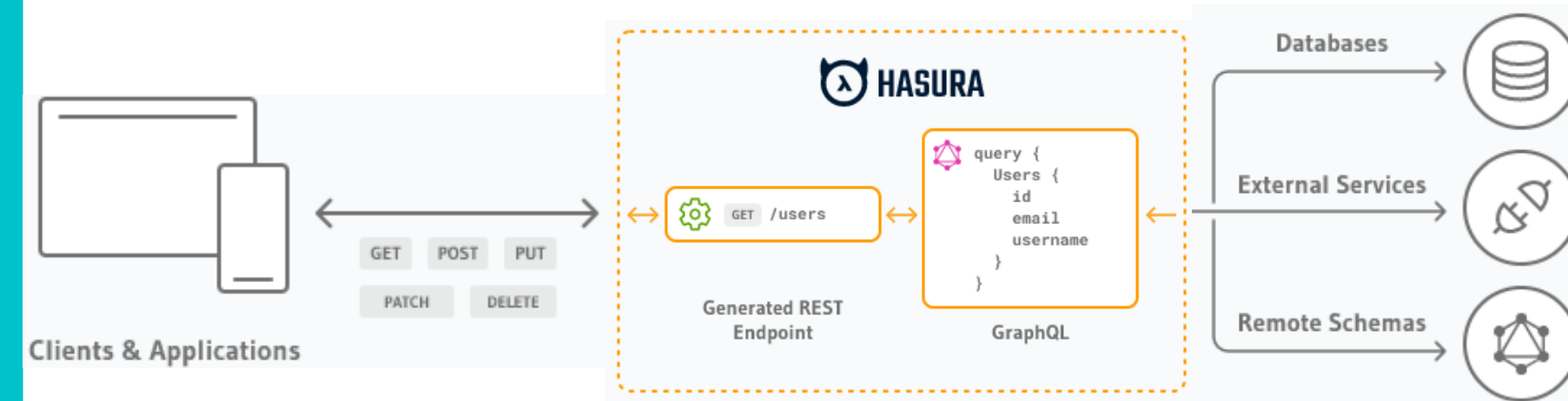
SERVICE

SPECIFICATION

UTILS

Back-end

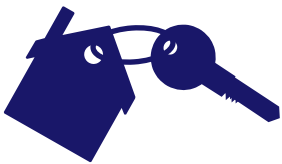
- [Postgres/Hasura](#) for storing relational app data
- [Hasura backend plus](#) for JWT-based user auth
- [IPFS](#) for media storage and hash-based content addressing
- [Fastify](#) NodeJS api/app server



LoginApiTest

TEST CASE - API AQA
TEST LOGIN

UI TESTING



PROPERTY FILE FOR
PASSWORD STORAGE



SELENIUM WEBDRIVER LAUNCH THE BROWSER
WITHOUT CREATING A VISUAL BROWSER WINDOW



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



USE IN TESTS: JAVA STREAMS



FACTORY PATTERN FOR TEST AUTOMATION



CREATING ALLURE REPORTS IN SELENIUM AND TESTNG

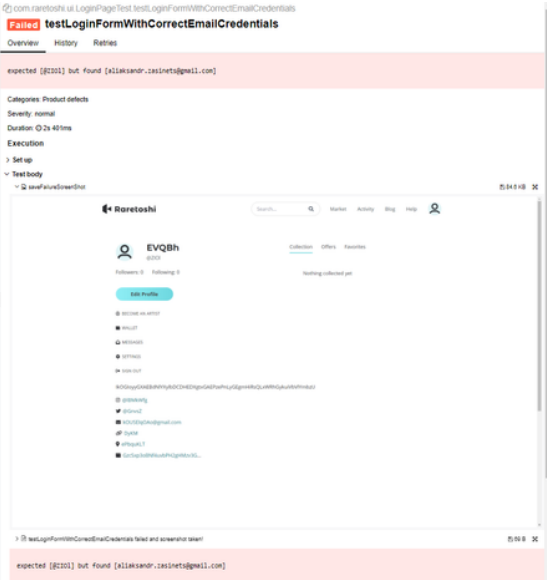
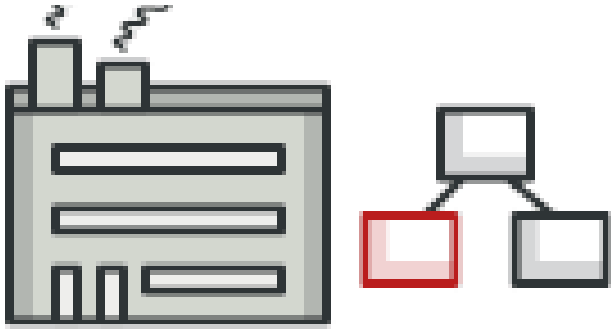


UI TESTING LOG MESSAGES

`.addArguments("--headless")`

`ThreadLocal<WebDriver>`

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



com.raretoshi.ui.EditProfilePageTest			3
✓ #1	testEditProfileEmptyCredentials	1s 791ms	
✓ #2	testEditProfileWithCorrectCredentials	3s 578ms	
✓ #3	testEditProfileWithinCorrectEmail	2s 415ms	

```
2022-08-27 18:22:16.952 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onStart(LogListenerUI.java:33)] - I am in onStart method Gradle test
2022-08-27 18:22:18.429 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestStart(LogListenerUI.java:44)] - I am in onTestStart method testLoginFormWithCorrectEmailCredentials start
2022-08-27 18:22:18.427 ERROR [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestFailure(LogListenerUI.java:54)] - I am in onTestFailure method testLoginFormWithCorrectEmailCredentials failed
2022-08-27 18:22:18.427 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestFailure(LogListenerUI.java:57)] - Screenshot captured for test case:testLoginFormWithCorrectEmailCredentials
2022-08-27 18:22:40.180 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestStart(LogListenerUI.java:44)] - I am in onTestStart method testLoginWithEmptyCredentials start
2022-08-27 18:22:41.912 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestSuccess(LogListenerUI.java:49)] - I am in onTestSuccess method testLoginWithEmptyCredentials succeed
2022-08-27 18:22:40.405 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestStart(LogListenerUI.java:44)] - I am in onTestStart method testLoginWithEmptyPasswordCredentials start
2022-08-27 18:22:40.327 ERROR [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestFailure(LogListenerUI.java:54)] - I am in onTestFailure method testLoginWithEmptyPasswordCredentials failed
2022-08-27 18:22:41.700 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestStart(LogListenerUI.java:44)] - I am in onTestStart method testLoginWithEmptyUsernameEmailCredentials start
2022-08-27 18:22:54.801 ERROR [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestFailure(LogListenerUI.java:54)] - I am in onTestFailure method testLoginWithEmptyUsernameEmailCredentials failed
2022-08-27 18:22:54.801 INFO [Test worker] [com.raretoshi.ui.listener.LogListenerUI.onTestFailure(LogListenerUI.java:57)] - Screenshot captured for test case:testLoginWithEmptyUsernameEmailCredentials failed
```

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

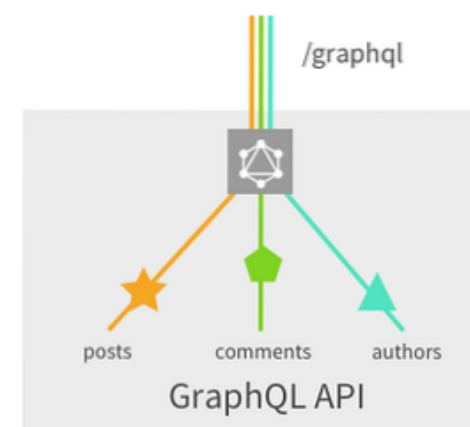
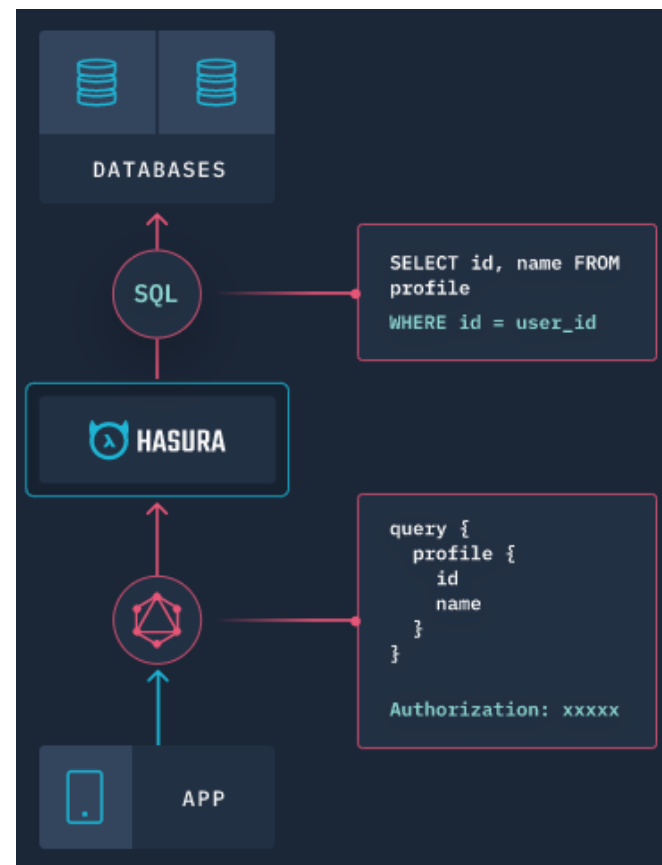
Test body

request

Request method: POST
Request URI: https://stage.raretoshi.com/auth/login
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": "Fp1E7xzy1G"
}

response

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"
}



JSON Body

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

GraphQL Query

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



REPORT

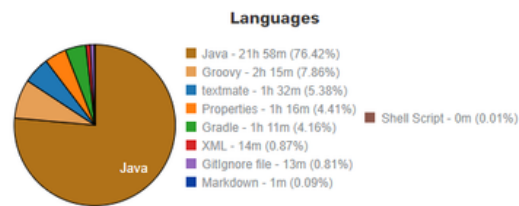
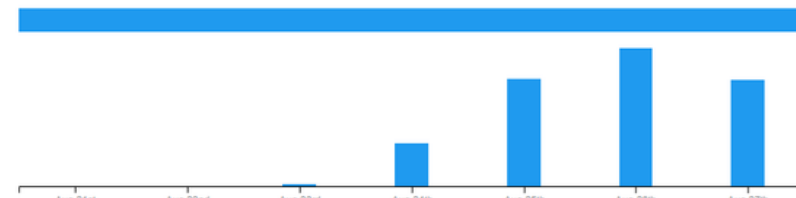
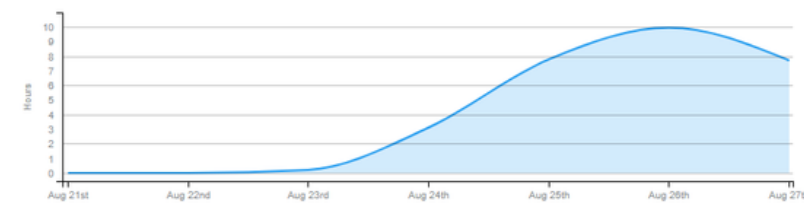
ALLURE REPORT



DeskTime Time Tracking - Project "TAF-RARETOSHI"

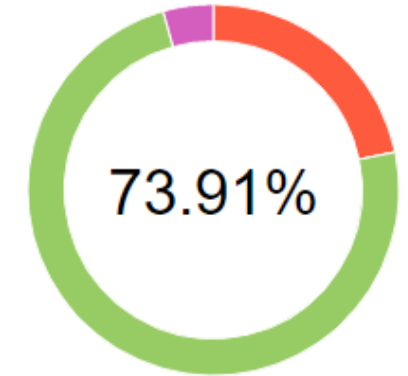
Projects • taf-raretoshi

28 hrs 45 mins over the Last 7 Days in taf-raretoshi under all branches. 📊



23

test cases



SUITES 1 item total

Gradle suite

5

17

1

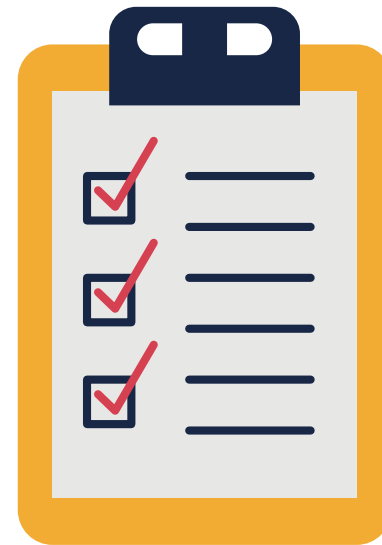
10 test cases

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

Categories

order	name	duration	status	Status	Marks
1	Product defects			5	
1	Amount of NFT matches by searching for part of the real NFT name			1	
1	testSearchWithResultPartPresentNameNft	1s 352ms			
1	Amount of NFT matches by searching for the hashtag of part of the name of the real NFT			1	
1	testSearchWithResultHashTagPartPresentNameNft	1s 462ms			
1	expected [DMU] but found [allaksandr.zasinet@gmail.com]			1	
1	testLoginFormWithCorrectEmailCredentials	2s 460ms			
1	expected [Login failed] but found [Please enter your password]			1	
1	testLoginWithEmptyPasswordCredentials	1s 638ms			
1	expected [Login failed] but found [Please enter your Raretoشي username or email address]			1	
1	testLoginWithEmptyUsernameEmailCredentials	1s 731ms			

order	name	duration	status	Status	Marks
1	Gradle suite			5	17
1	Gradle test			5	17
1	com.raretoshi.api.LoginApiTest			5	1
1	#1 testLoginUserCorrectEmailPassword	0s			
2	testLoginUserEmptyNamePassword	2s 737ms			
3	testLoginUserNotValidEmailPasswordRandomValues	203ms			
4	testLoginUserNotValidNamePasswordRandomValues	200ms			
1	com.raretoshi.ui.AuthorizedPageTest			5	1
1	#1 testBitcoinQrAddressWallet	1s 384ms			
2	testFollowersFollowingAmount	667ms			
3	testIsDisplayedElementsAuthorizedPage	868ms			
1	com.raretoshi.ui.EditProfilePageTest			5	1
1	testEditProfileEmptyCredentials	1s 870ms			
2	testEditProfileWithCorrectCredentials	3s 459ms			
3	testEditProfileWithIncorrectEmail	2s 476ms			
1	com.raretoshi.ui.HomePageTest			5	1
1	testIsDisplayedButtonHomePage	669ms			
2	testIsDisplayedImageNameCardArtwork	299ms			
3	testTextLabelHomePage	157ms			
1	com.raretoshi.ui.LoginPageTest			5	2
1	testLoginFormWithCorrectEmailCredentials	2s 460ms			
2	testLoginWithEmptyCredentials	1s 844ms			
3	testLoginWithEmptyPasswordCredentials	1s 638ms			
4	testLoginWithEmptyUsernameEmailCredentials	1s 731ms			
5	testLoginWithIncorrectCredentials	1s 398ms			
1	com.raretoshi.ui.NftSearchResultTest			5	1
1	testSearchWithEmptyQuery	794ms			
2	testSearchWithIncorrectQuery	811ms			
3	testSearchWithResultHashTagPartPresentNameNft	1s 462ms			
4	testSearchWithResultNameMatchedQuery	8s 079ms			
5	testSearchWithResultPartPresentNameNft	1s 352ms			



NOTE



During the implementation of the TAF-RARETOSHI (TEST AUTOMATION FRAMEWORK) project, I additionally studied GraphQL is a query language for APIs and a runtime for fulfilling those queries with your existing data.



All buggy found during UI/API testing were sent to the RARETOSHI team for elimination.



At the moment, work on TAF-RARETOSHI IS CONTINUE...