



# WEB CYPRESS QA ENGINEER

MAKE IT WORK, MAKE IT RIGHT, MAKE IT FAST.

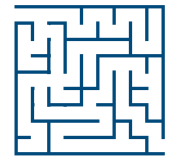
Presented by: Ehab Mohamed



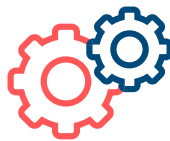
# Agenda

Background

Technical Task



Testing Approach



Automation Implementation



Reporting

Summary

01

## Before Graduation

AASTMT

2015 - 2020

- Multiple Programming languages
- Leoni wiring systems testing department internship
- Image Processing Teamleader at Robben

## QC Engineer

NASPS

12/20 - 04/21

- NASPS is the national company that manages the digitally secure banknotes in Egypt

02

03

## QA Automation Software Engineer

Vodafone

04/21 - 03/22

- Automation SPOC for VF-Cash tribe
- Enhanced the automation regression pack of Vodafone cash by 80%.

## Automation Software Test Engineer

Instabug

03/22 - present

- Testing mobile SDK on both Android and IOS mobile platforms
- Building BE & FE automation using best practices for efficient reliable automation

04

& yet more to accomplish

# Background

## Software Testing Engineer

### Education:

BENG in mechatronics from the Arab Academy For Science And Technology

### Experience:

2 Years of professional experience in both manual and automation software testing with strong creative mindset

### Skills:

Agile mindset Tester with an eye for details, Advanced hands-on web apps testing, mobile testing, and BE API testing manual and automation using multiple programming languages

#believeinyourself





# Technical Task

The main objective is to test the search functionality of George CZ demo website

## Deliverables:

- List of the High Level Scenarios for testing the search functionality feature
- FE automation project covering the main test scenarios for the search functionality feature

# Testing Approach

## Testing coverage

Testing coverage takes into consideration the functional and non-functional requirements. Ex. Search functionality, performance and security

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## High Level scenarios

Derived HL scenarios that cover testing the functional and non-functional requirements from the test coverage

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## Automation Coverage

Marked the main scenarios to be automated using cypress

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## Manual Effort

Break down the HL scenarios into multiple prioritized test cases and estimate the effort required for test implementation, execution and retesting.

# High Level Scenarios



## Search Feature Scenarios

- FE displays the search box and buttons following the design
  - UI is consistent and follows the design on different types of browsers
  - The design doesn't corrupt with different screen sizes or splitting the screen
  - Amount and date modals match the design
  - The search results page follows the design in different states
    - Success state
    - Failure state
    - Empty response state
  - The search dropdown list displays search suggestions
  - FE follows the contract for:
    - Address book API
    - Transactions API
  - FE caches data returned from
    - Transactions request
    - Address book request
  - The user can use the search functionality on mobile web browsers
- The amounts tab sets the range of transactions amount in the FE request
  - The date tab sets the range of transactions date in the FE request
  - The results are filtered based on the amount and date search values
  - Check that no case sensitivity validation on the keyword is added BE side
  - BE follows the contract for:
    - Transactions API
    - Address book API
  - The search results are relevant to the search keyword
  - Check the response time of the endpoint on heavy-load
  - All search functionality endpoints are authenticated
  - Check the search functionality endpoints rate limit
  - BE sanitizes the search keyword



# Automation Implementation



## Automated Scenarios

- Search results are relevant to the search keyword
- FE displays non-matching results response when searching using invalid data
- Clearing the search keyword should update the results page
- Check the search functionality for the transactions history of the search keyword within a date range

# Reporting

## Screenshots

Captured and supported by  
default from cypress

## HTML Reports

The cypress-mochawesome-  
reporter plugin is used to generate  
HTML reports containing Test  
results

## Videos

Captured and supported by default  
from cypress



# Summary



## Quality Assurance

Provided a rough overview of the planned test scenarios while having the ability to see the big picture and have a strong quality awareness



## Cypress

Designed, implemented, and executed the Automated Scenarios using Cypress automation testing tool integrated with the cucumber-preprocessor plugin



## Github

Clean readable documentation  
[Github.com/EhabAteff/ERSTE-Task](https://github.com/EhabAteff/ERSTE-Task)

# Thank you!

Feel free to ask if you have any questions.