


# E-COMMERCE WEBSITE TESTING

FASHION  DAYS

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# THE PRODUCT

- The e-commerce website [www.fashiondays.ro](http://www.fashiondays.ro) is one of the biggest online clothing shops in Romania
- Everything started in 2009 on the Romanian market and is present today in Hungary and Bulgaria.
- In 2015 became part of the eMAG group, and this partnership contributed even more to the consolidation of the leading position on the e-commerce fashion market in the region.
- In 2019 the shopping experience has become simpler, faster, more efficient with delivery to eMAG easybox locks in Bucharest, Ilfov and most major cities.
- Fashion Days is the online destination that offers shopping and inspiration, anywhere and anytime, to over 1,500,000 customers in Romania, Bulgaria and Hungary.

# THE TESTING STRATEGY

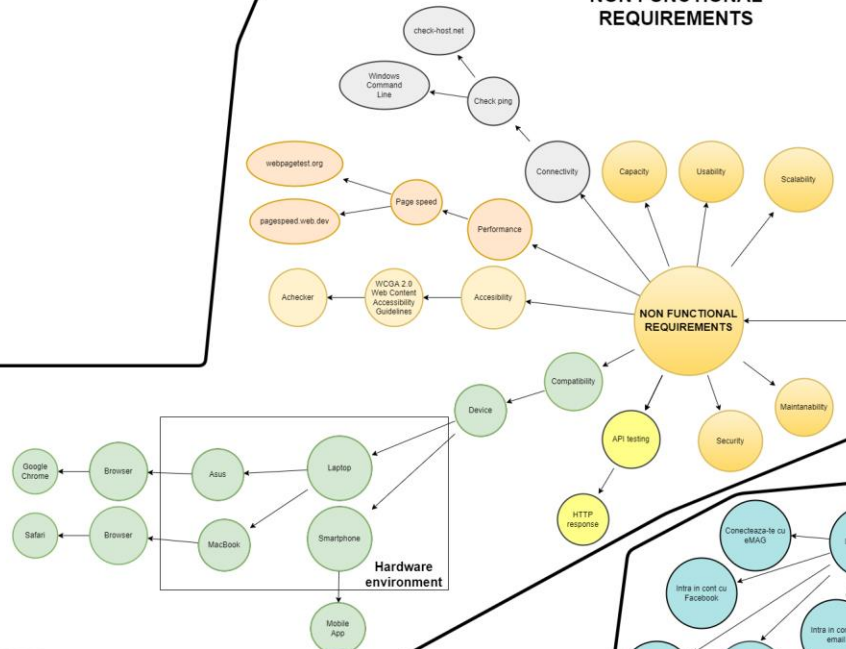
- Web application breakdown using mind map
- Functionalities identification and review against requirements
- Features selection to go under test
- Testing types and testing techniques selection
- Test scenarios, test cases and test data
- Test execution
- Bugs overview

# TOOLS USED IN THE TESTING PROCESS

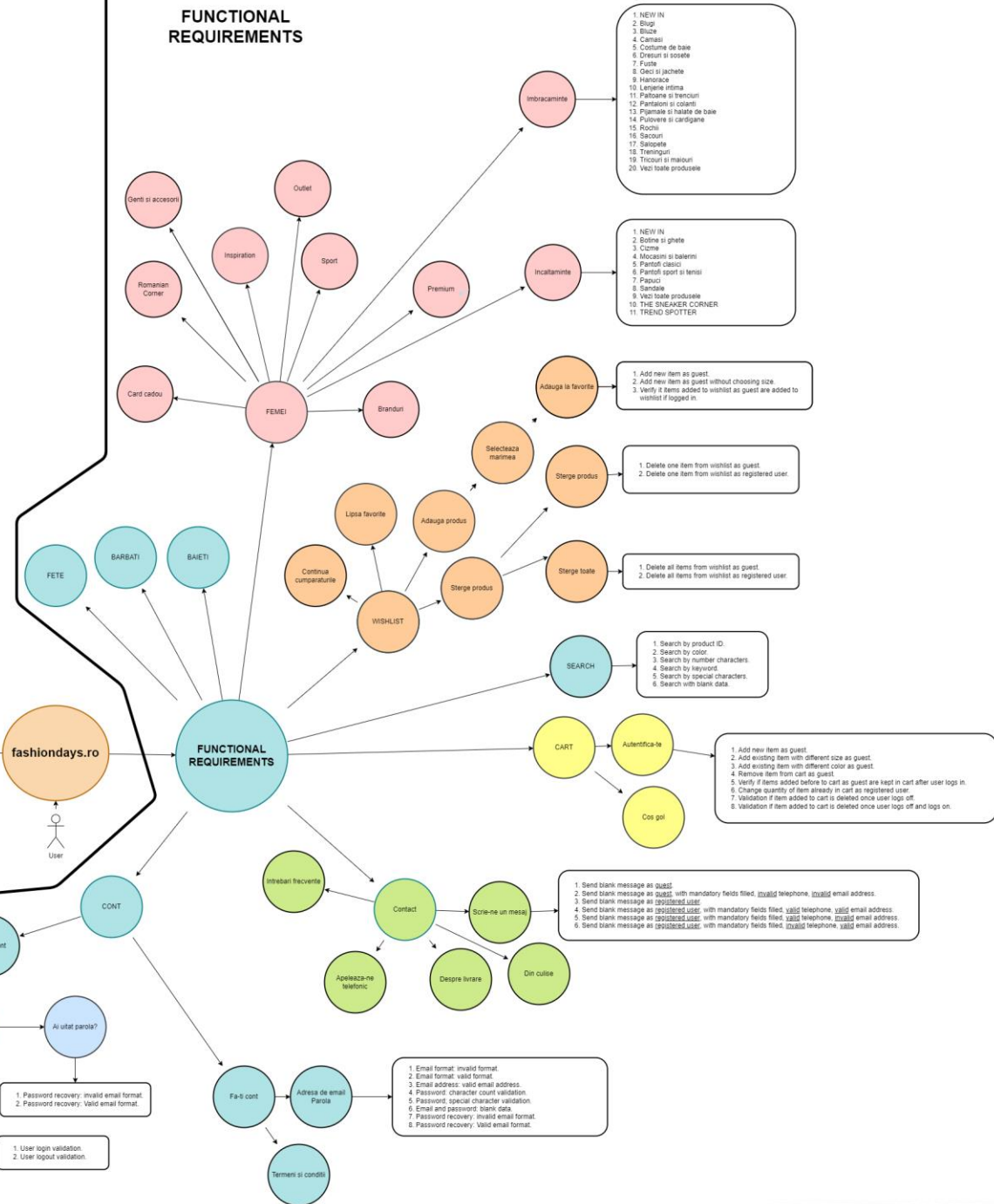
- Mind map: Diagrams.net
- Test cases: Microsoft Excel
- Page speed: Webpagetest.org, pagespeed.web.dev
- Ping check: Windows CLI, check-host.net
- Accessibility: <https://achecker.achecks.ca/checker/index.php>, <https://wave.webaim.org/>
- API testing: Postman
- Performance testing: Jmeter
- Bug tracking: MantisBT

# MIND MAP

## NON FUNCTIONAL REQUIREMENTS



## FUNCTIONAL REQUIREMENTS



# TESTING TYPES

- Functional tests:
  - Smoke test to identify critical bugs in major features
  - Dynamic UI exploratory testing in happy flows
- Non functional tests:
  - Accessibility – Web Content Accessibility Guidelines 2.0 (WCAG 2.0), WebAIM
  - Connectivity – Ping check
  - API testing – HTTP requests
  - Performance – Page speed tests, response times
  - Compatibility – Cross platform and cross-browser tests

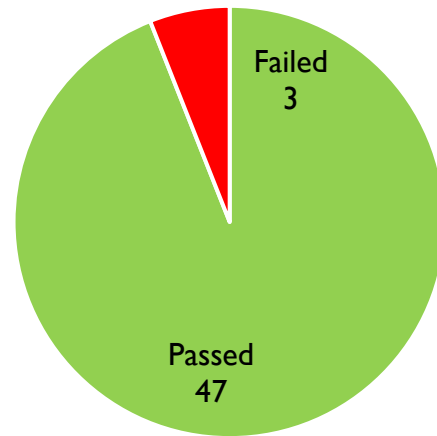
# TEST CASES AND TEST DATA

- The test cases were designed to validate the main features of the application.
  - Test Suite Windows-Chrome: 50 test case
  - Test Suite macOS-Safari: 45 test cases
- Test data used in the process:
  - Valid test data
  - Invalid test data
  - Absent test data (no data or blank)

# TEST CASES RESULTS 1/2

## Windows – Chrome

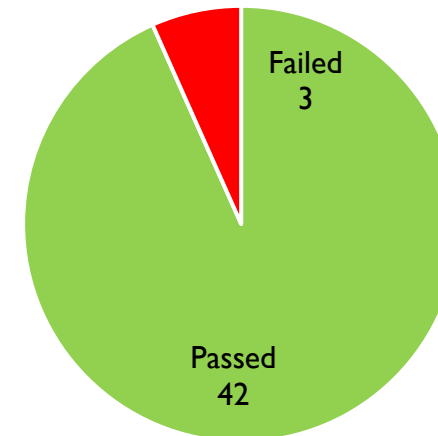
50 test cases, from which 47 passed and 3 failed, with a pass ratio of 94.33%



■ Passed ■ Failed

## macOS – Safari

45 test cases, from which 42 passed and 3 failed, with a pass ratio of 91.90%



■ Passed ■ Failed

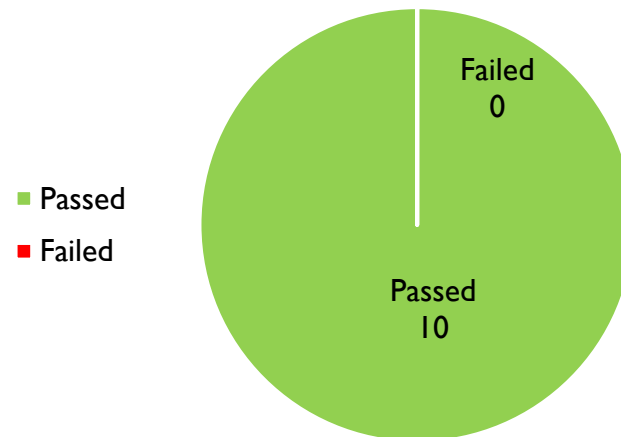


## TEST CASES RESULTS 2/2

### Postman

GET method and response time: 10 test cases were run with a pass ratio 100%

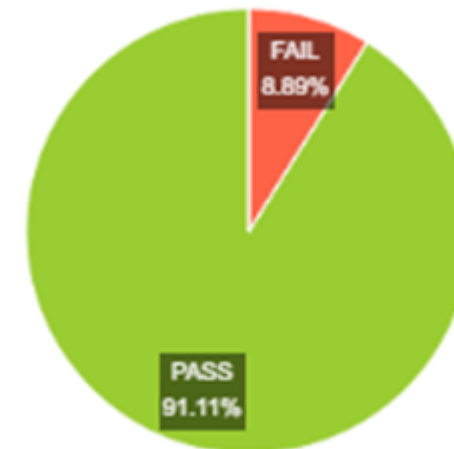
- GET method - status code 200 is OK
- GET method – Response time is less than 200 ms



### Jmeter

GET method and response time: 900 sample requests, with a pass ratio of 91.11%

- Duration assertion 1000 ms
- Response assertion status code 200



# BUGS OVERVIEW

- Bugs overview:
  - 3 bugs were found on Test Suite Windows, each with an identical twin on Test Suite macOS
  - The severity of the bugs was normal with normal impact on the product's functionality
  - The bugs were reported in MantisBT for review

Defect-ID	Defect summary	Severity
0041933	UI: [DIN·CULISE] -- embedded video not working	normal
0041934	UI: [ANPC] -- external link not working	normal
0041935	[Send a message] -- Message can be sent with invalid data	normal

# CONCLUSIONS

- Following both functional and non-functional testing of the product, the results are:
  - all the main features are working
  - good website loading speed
  - optimal communication between client and server
- The product can be improved in terms of accessibility to:
  - meet the needs of all users
  - meet legal requirements
  - improve overall experience

# LESSONS LEARNT

- Team player – care about helping the team to succeed
- Open to feedback – ask and accept constructive feedback
- Right attitude – help improving the quality rather than criticizing someone's work
- Constant learning – acquire knowledge to gain new skills and expertise
- Understand priority – Test high impact functions first
- Get to know the programmers - socialize
- Be proud of your job
- HAVE FUN 😊

FEEDBACK  
THANK YOU