

E-COMMERCE WEBSITE TESTING

FASHION  DAYS

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THE PRODUCT

- The e-commerce website 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

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

- Overview:
 - Test suite Windows: 50 test cases were run, from which 47 passed and 3 failed, with a pass ratio of 94.33%
 - Test Suite macOS: 45 test cases were run, from which 42 passed and 3 failed, with a pass ratio of 91.90%
 - 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