Software Verification, Validation, and Testing

Testing Documentation

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Introduction

Selenium is a set of different software tools each with a different approach to supporting test automation. It is for automating web applications for testing purposes but is not limited to just that. Web-based administration tasks can be automated as well. Selenium has the support of some of the largest browser vendors who have taken (or are taking) steps to make Selenium a native part of their browser. It is also the core technology in countless other browser automation tools, APIs and frameworks0.

Application Overview

In this project, we will be testing a web application called "Rezultati.com". In this document we will provide many test cases as you can see in the table below. "Rezultati.com" is sports results-based application that provides users with real time sports results. Also, this site provides user with much more information about their favorite sport, sport team, league etc. It allows user to have account(register/signing) and save their favorite team.

Functional testing

All the functions in the applications are tested against the requirements document to make sure that the product meets the specifications (functional requirements). Verifying that the crucial functions are working in the application.

Automation testing

Automation testing was conducted through automation tool Selenium. Test cases were written and executed. Manual involvement was not required while executing an automated test suite. The tester wrote the test scripts and test cases using the automation tool.

Performance testing

In software engineering, performance testing is in general, a testing practice performed to determine how a system performs in terms of responsiveness and stability under a particular workload. It can also serve to investigate, measure, validate or verify other quality attributes of the system, such as scalability, reliability and resource usage.

Test Environment and Tools

Application is on the web and URL is: "http://rezultati.com".

Tools used for testing are Eclipse IDE, Selenium web driver and Google Chrome.

Test cases and Test scenarios

Test name	Test Scenario	Test Steps	Expected Results	Actual Results	Pass/Fail
testTitle	Check title of the page	1.Go to site 2.Check title 3. Compare if it is the same	Title should be the same	As Expected	Pass
testRegistration	Register on the site	1.Go to site 2.Click register 3. Input email and password 4. Click register	User should be able to register with provided info	As Expected	Pass
testSearch	Search info on the site	1.Go to site 2.Click on the search button 3. type text	User should be able to search for any information	As Expected	Pass
testSettings	Open page settings	1.Go to site 2.Click on the setting button 3. change settings	User should be able to see change some setting on the site	As Expected	Pass

testLogin	login for users	1.Go to site 2. click on login 3.enter email and password	User should be able login with their already registered information	As Expected	Pass
testSportovi	Choose different sports provided	1.Go to site 2.choose between the provided sports	User should be able to see and choose one any of the sports	As Expected	Pass
testJosSportova	Choose more sports	1.Go to site 2.Click 'jos sportova' button	User should be provided with option to choose more sports	As Expected	Pass
testLiga	See more information about league	1.Go to site 2.choose league 3. choose tab that you want	User should be able to see all information about the league in all tabs	As Expected	Pass
testScroll	Scroll the page	1.Go to site 2.scroll the page	User should be able to scroll through the contents	As Expected	Pass
testMatchSection	Selecting between match times	1.Go to site 2. choose one of the provided time options	User should be able to switch between provided times	As Expected	Pass
testDate	Choose certain date	1.Go to site 2. click on date 3.choose desired date	User should be able to choose any date form the provided	As Expected	Pass
testGame	See more info bout the match	1.Go to site 2.Choose a match 3.see more info about it	User should be able to select a match and see more info about it	As Expected	Pass
testPravilaKoristenja	Rules of site use	1.Go to site 2.scroll to bottom	User should be able to see rules of use provided by the website	As Expected	Pass

		3.select 'pravila koristenja'			
testReklamniOglasi	Advertisement	1.Go to site 2.scroll to bottom 3.select 'reklamni oglasi'	User should be able to see advertisement provided by the website	As Expected	Pass
testKontakt	Contact	1.Go to site 2.scroll to bottom 3.select 'kontakt'	User should be able to see contact provided by the website	As Expected	Pass
testMobilna	Mobile version	1.Go to site 2.scroll to bottom 3.select 'mobilna'	User should be able to see mobile version provided by the website	As Expected	Pass
testLiveScore	Live scores	1.Go to site 2.scroll to bottom 3.select 'Livescore'	User should be able to see live scores provided by the website	As Expected	Pass
testNajboljeStranice	Best sites	1.Go to site 2.scroll to bottom 3.select 'najbolje stranice'	User should be able to see best sites provided by the website	As Expected	Pass
testFB	Open their Facebook page	1.Go to site 2.scroll to bottom 3.select Facebook	User should be redirected to the facebook page	As Expected	Pass
testTwitter	Open their Twitter page	1.Go to site 2.scroll to bottom 3.select Twitter	User should be redirected to the twitterpage	As Expected	Pass

testAppStore	Open link to download the app form AppStore	1.Go to site 2.scroll to bottom 3.select App Store	User should be redirected to App Store link	As Expected	Pass
testAndroid	Open link to download the app form Play Store	1.Go to site 2.scroll to bottom 3.select Android	User should be redirected to Play Store link	As Expected	Pass