Rauf Denktaş University

Course: CMSE 326

A SOFTWARE QUALITY ASSURANCE & TESTING

Group number: 9

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Lab Coordinator: Nada KOLLAH

Group Member: Zeynep Pelin ÇOLAK

OUTLINE

- INTRODUCTION
- PROJECT MANAGEMENT PLAN
- INFORMATION ABOUT THE WEB SITE
- TESTING STRATEGY
- DISCUSSION ON TEST RESULTS
- DISCUSSION on THE QUALITY of THE WEB SITES AND SUGGESTED
- CONCLUSION
- REFERENCES

Introduction

Overall, the website of the Rauf Denktas University appears to be welldesigned and informative. The homepage is visually appealing and provides quick access to important sections of the site, such as the academic programs, admissions process, and campus life. The navigation menu is well-organized and easy to use, making it simple to find the information you are looking for.

Project Management

Tasks	Task Distribution	Name
Test Plan Preparation	Team Leader	Zeynep Pelin Çolak
Creation of Test Cases and Test Data	Tema Leader & QA Engineers	Zeynep Pelin Çolak
Execution of Test Studies	QA Engineers	Zeynep Pelin Çolak
Analysis of Test Results	QA Engineers	Zeynep Pelin Çolak
Bug Fixes	QA Engineers & Web Developers	Zeynep Pelin Çolak

Timeline & Meeting

First Meeting

Objective: Test plan preparation.

Agenda: Test plan preparation process, identification of test scenarios and test data, reporting process, work distribution.

Outcome: The first draft of the test plan will be prepared, each team member's responsibilities

Second Meeting

Objective: Creation of test scenarios and test data.

Agenda: Identification of test scenarios and test data, necessary steps for applying test scenarios.

Outcome: Test scenarios and test data will be created, a shared understanding of test scenarios and test data will be established among team members.

Third Meeting

Objective: Execution of the test work.

Agenda: Implementation of test scenarios, recording of results.

Outcome: Test work will be completed, results will be recorded, possible errors will be reported.

Fourth Meeting

Objective: Analysis of test results.

Agenda: Analysis of test results, identification of possible errors, error correction process.

Outcome: Test results will be analyzed, errors will be identified, errors will be corrected, and the test will be

repeated.

Fifth Meeting

Objective: Reporting of test results and final delivery.

Agenda: Reporting of results, final delivery.

Outcome: Test results will be reported, final delivery will be made, and the project will be completed.

INFORMATION **ABOUT** THE

WEB SITE





INFORMATION ABOUT

THE

WEB SITE

News

Read All News







RDU Acknowledged the Success of their Football Team



08/08/2022 Prof. Dr. Cem Tanova At Rauf Denktas University



Rauf Raif Denktas

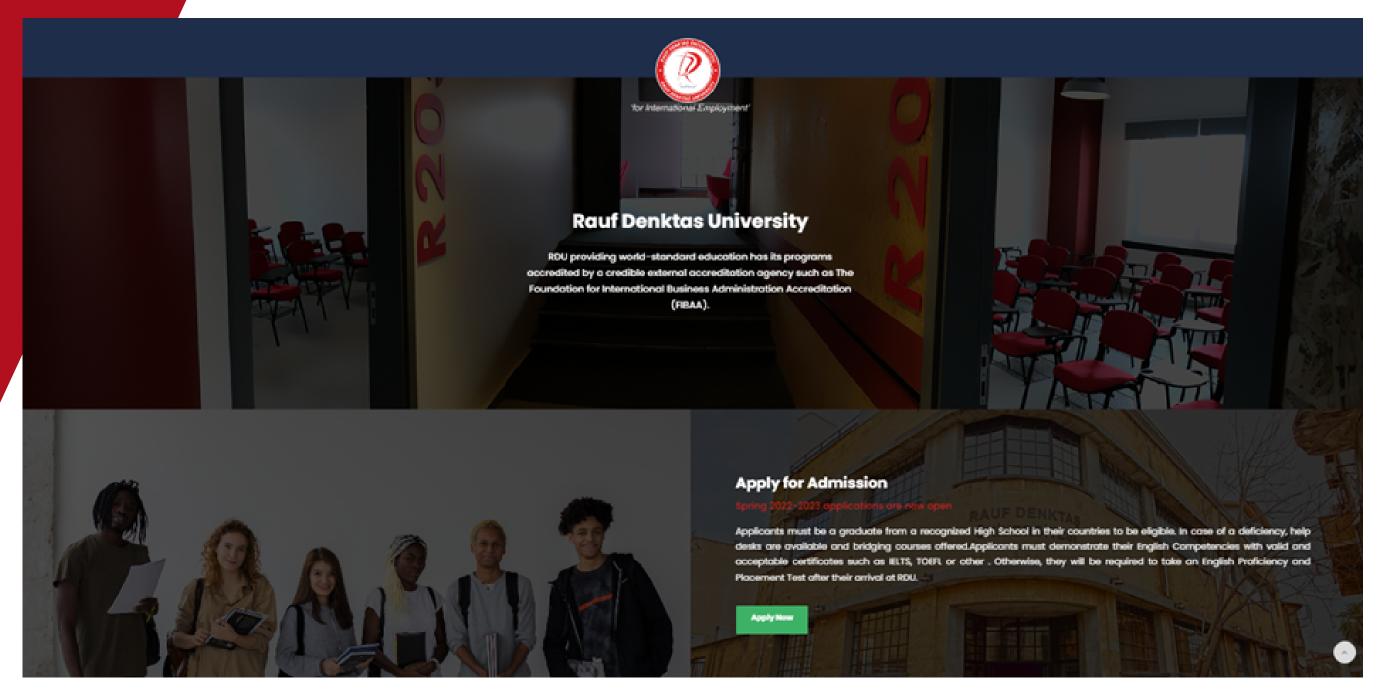
Founding President of the TRNC, Mr. Rauf Raif Denktas

Rauf Raif Denktas (1924-2012) was a prominent Turkish Cypriot politician and the founding president of the Turkish Republic of Northern Cyprus (TRNC).

Born in Paphos, Cyprus, Denktas studied law in the United Kingdom and became a lawyer in 1947. He returned to Cyprus the same year to establish his own law firm. He was a co-founder of the Turkish Resistance Organization during the 1950s and played an active role in the Turkish Cypriot community's struggle for political rights and self-determination.

INFORMATION

ABOUT
THE
WEB SITE

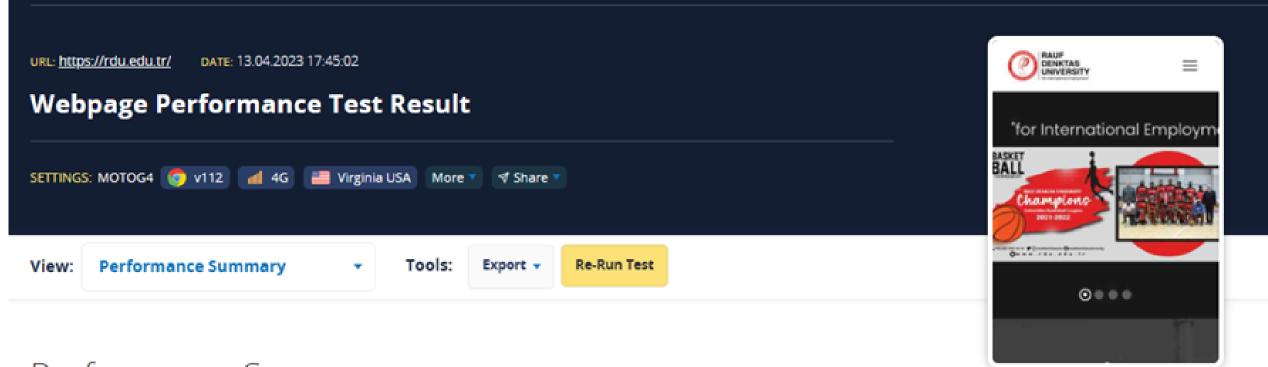


TESTING STRATEGY

Test Type	Description	Tools Used
Functional Tests	Verification of system requirements	Selenium
Performance Tests	Measuring system performance	Wordpage.test
Security Tests	Evaluation of system security	OWASP ZAP
Mobile Compatibility Tests	Tests on different platforms and browsers	Google Search Console
Speed Test	Evaluate the responsiveness of system performance	PageSpeed Insights

Perfomance Test

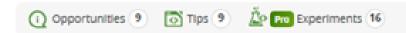
webpagetest.org



Performance Summary

Is It Quick?

Not bad... This site took little time to connect and deliver initial code. It began rendering content with little delay. There were 38 render-blocking requests. The largest content rendered later than ideal



Is It Usable?

Needs Improvement. This site had major layout shifts. It took a long time to become interactive. It had 2 accessibility issues, none serious. Some HTML was generated after delivery, potentially delaying usability.



Is It Resillent?

▲ Not bad... This site had many render-blocking 3rd party requests that could be a single point of failure. It had no security issues. Some HTML was generated after delivery, which can cause fragility.



Perfomance Test

webpagetest.org

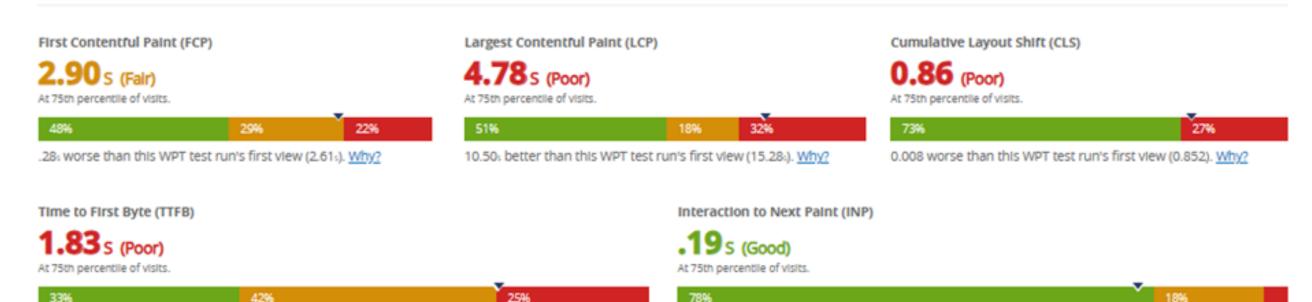


Real-World Usage Metrics

.71: worse than this WPT test run's first view (1.12:). Why?

Compare this WebPageTest run with browser-collected performance data for this site.

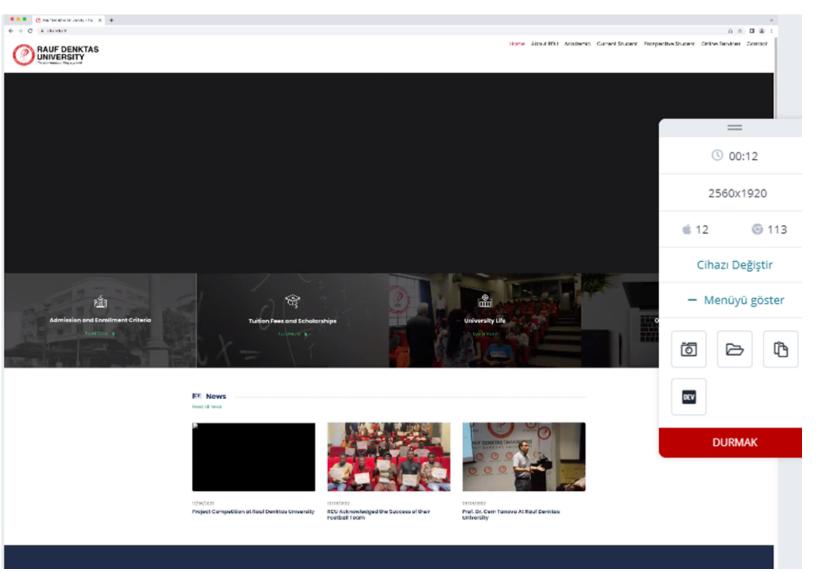
(Collected anonymously by Chrome browser from March 15, 2023 to April 11, 2023 | Full Report)



Field metric only, no WPT test run data.

Browser Compatibility Test

BrowserStack



Browser Compatibility Test Results (BrowserStack):

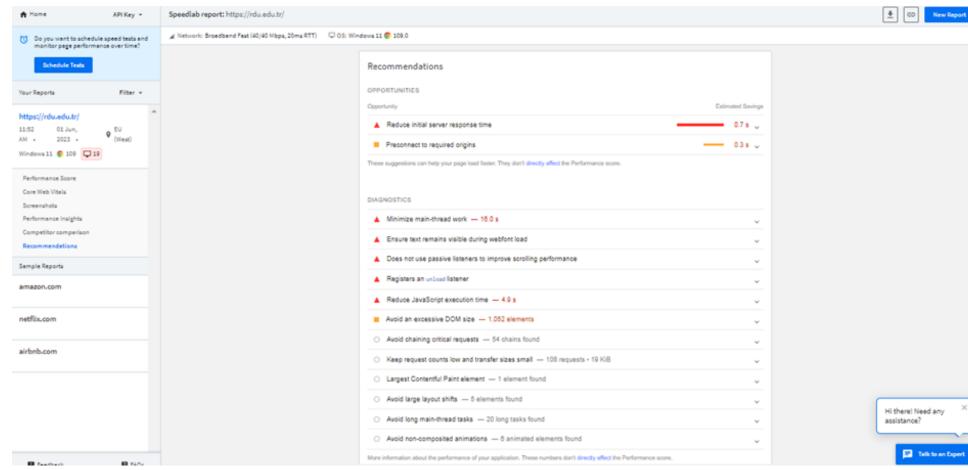
Browser: Internet Explorer 11

Version: 11.0 Compatibility: Passed Browser: Google Chrome

Version: 94.0 Compatibility: Passed Browser: Mozilla Firefox

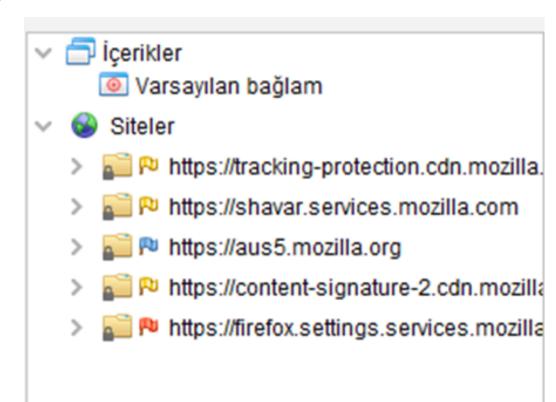
Version: 92.0 Compatibility: Passed Browser: Apple Safari

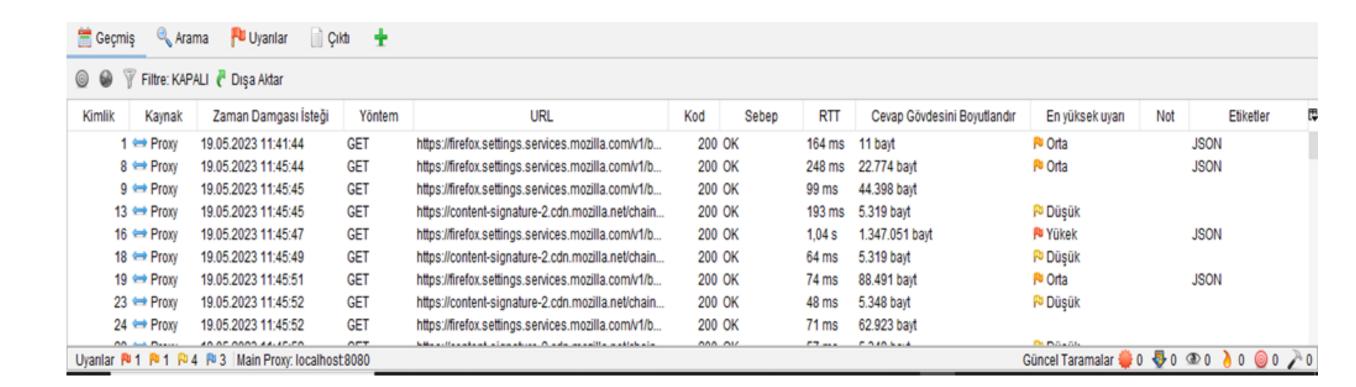
Version: 15.0 Compatibility: Passed Browser: Microsoft Edge



Security Test

Owasp Zap



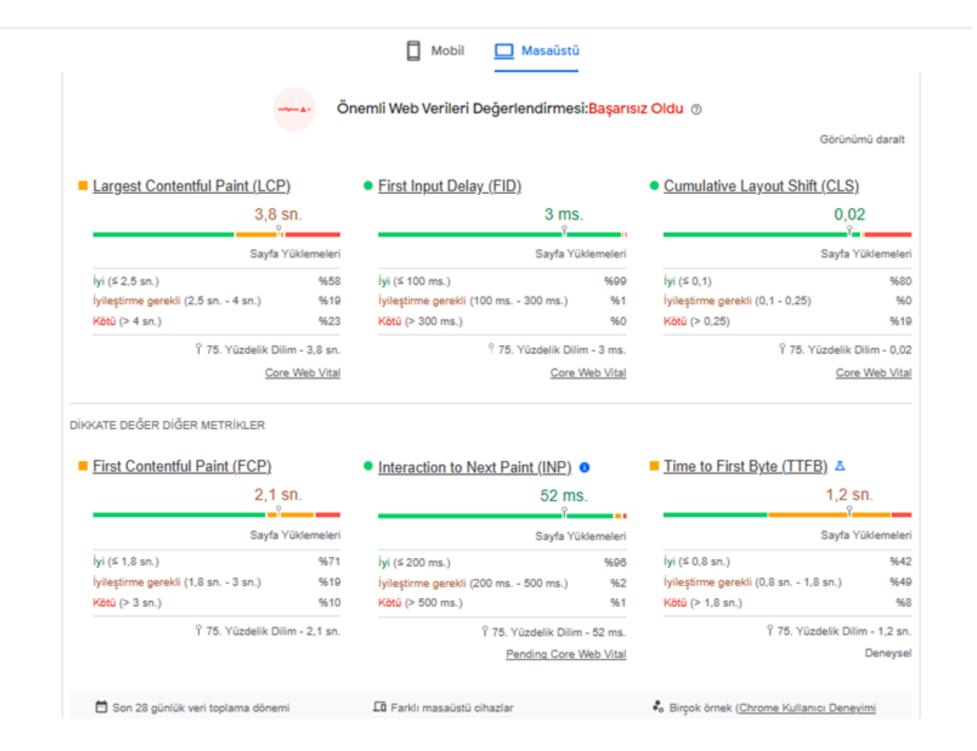


PageSpeed Insights

TESTING DETAILS

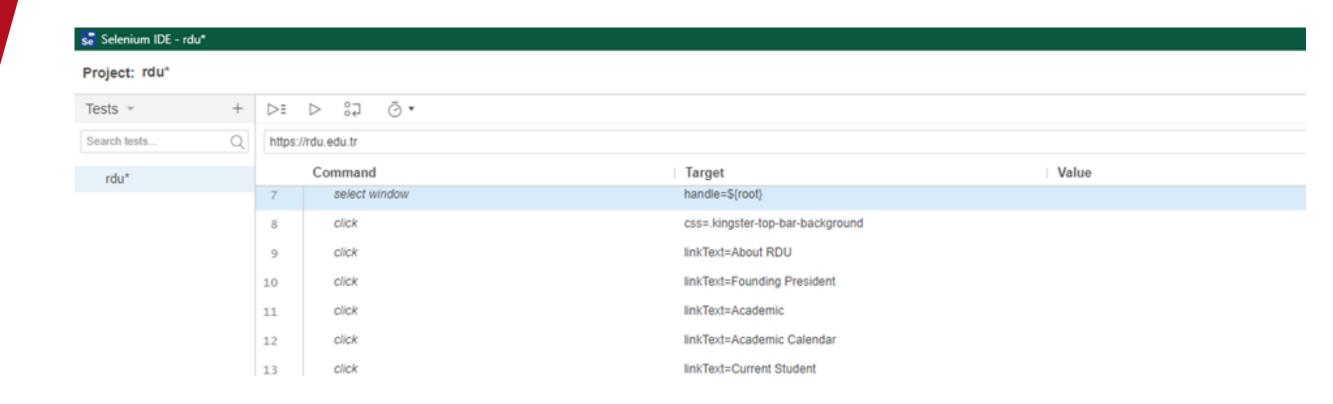
Speed Test

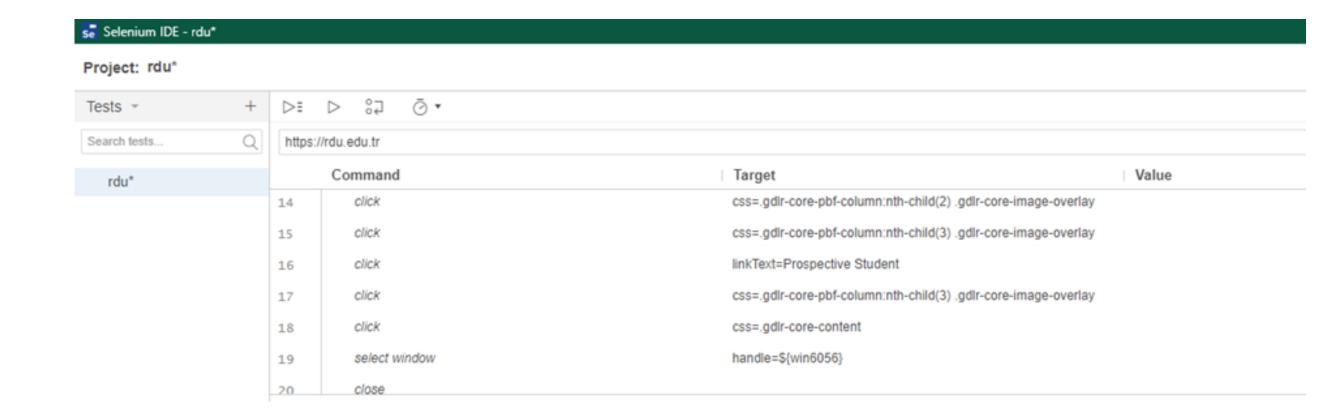
PageSpeed Insights



Functional Test

Selenium





Discussion on Test Results

In the tests conducted by BrowserStack, it has been observed that the Rauf Denktaş University website

In tests using Webpagetest.org, it was determined that the Rauf Denktaş University website

In terms of usability, it has been observed that there are major layout changes on the website

• • • •

In terms of flexibility, there are many 3rd party requests blocking requests on the website





In conclusion, while the Rauf Denktaş University website demonstrates compatibility, security, and acceptable performance, there are areas that need attention. ...

CONCULSION

REFERENCES

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[1] Selenium: https://www.selenium.dev/
[6] WCAG: https://www.w3.org/WAI/standards-guidelines/wcag/
[7] Google Lighthouse:
https://developers.google.com/web/tools/lighthouse
[9] BrowserStack: https://www.browserstack.com/
[10] Sauce Labs: https://saucelabs.com/
[11] https://tr.myservername.com/web-application-testing-complete-guide
[12]
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https://www.venusajans.com/haberler/1/haberler/100 8/hazirlattiginiz-web-sitesinin-kalitesini-nasilanlarsiniz.aspx [13] https://sherpa.blog/sozluk/kalite-kontrol-quality-

[13] https://sherpa.blog/sozluk/kalite-kontrol-quality-assurance-qa-testleri

[14]

https://support.google.com/webmasters/answer/9012 289?hl=tr

Thank you Listening and Wacthing!