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1 Introduction

1.1 Document Overview

This document is the software test report of the Alpha testing phase of the CSUN Dashboard software development project. It contains the results of End-2-End tests, which were executed during the testing phase Alpha.

1.2 Abbreviations and Glossary

1.2.1 Abbreviations

Add here abbreviations

- E2E - End to End
- SST - Server Stress Test

1.2.2 Glossary

Add words definitions

- Cypress - E2E Testing framework

1.3 References

1.3.1 Project References

#	Document Identifier	Document Title
R1	SRS	CSUN Dashboard - Software Requirements Specification: RevA - White Volley Girls
R2	SDD	CSUN Dashboard - Software Design Document REV A
R3	STP	CSUN Dashboard - Software Test Plan - White Volley Girls REV A.docx - Google Docs

1.3.2 Standard and regulatory References

#	Document Identifier	Document Title
[STD1]		Add your documents references. One line per document

1.4 Conventions

Add here conventions

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2 Overview of Tests Results

2.1 Tests log

Give some information about tests.

The **CSUN Dashboard** software (version 1.0.0) was tested with the Cypress test framework on Windows 11, on 2023/03/01. The tests of the test phase (**R2 STP**) were executed.

Testers were:

- Christian Jarmon

2.2 Rationale for decision

After executing a test, the decision is defined according to the following rules:

- **OK:** The test sheet is set to the "PASSED" state when all steps result in their expected results. The real result is compliant with the expected result.
- **NOK:** The test sheet is set to the "Failed" state when at least one step does not result in its expected result.

Test results are listed in §3.

2.3 Overall assessment of tests

Give an overall qualitative assessment of tests.

- Software is fully functional
- Performs well to requirements.
- Stress test performance looks good.
- Scalability outlook positive.

Give quantitative results.

Statistics about tests:

- 100% of tests OK,
- 0% of tests NOK

2.4 Impact of test environment

The Cypress test framework by wrapping its subject (CSUN Dashboard) in a contained iframe to execute the defined steps in an asynchronous manner.

This results in what would be *user* actions relayed in an unnatural manner. Cypress always runs the test in the same environment that its subject is running in, therefore siphoning computing resources from the subject itself, impacting its performance in a non-testing environment

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3 Detailed Tests Results

For each executed test, this document contains

- Test identification;
- Test title;
- Test decision;
- A comment containing additional information or problems encountered during execution and differences with the test procedure.

For the problems leading to a bug, the bug ID is reported in the result of the step where the problem was encountered.

3.1 HOME

Test ID	TC-1	Comment	Decision
Test description	Can see homepage		OK
Verified Requirement	N/A		
Initial conditions	Visit baseURL (csundash.kyeou.xyz)	This is not relevant to the test but should happen as a precondition (beforeEach()) as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	The website is visited and loaded to allow viewing of elements on page		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Home Page	<ul style="list-style-type: none"> • Can see text, "The CSUN course planner you've been looking for" 	OK
2	Click "Get Started" button	<ul style="list-style-type: none"> • URL should be "https://csundash.kyeou.xyz/planner" 	OK

3.2 PLANNER

Test ID	TC-2	Comment	Decision
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Test description	Can Select Subject and Term		OK
Verified Requirement	FUNC_SRS_(2.2)		
Initial conditions	Visit to baseURL + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	The Term is selected which renders the Subject dropdown in which an option can also be chosen		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click ALL subjects	<ul style="list-style-type: none"> For every subject, a list of available sections offered show up 	OK

Test ID	TC-3	Comment	Decision
Test description	Sections Show Up When Term Selected		OK
Verified Requirement	FUNC_SRS_(2.2)		
Initial conditions	Visit to baseURL + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		

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Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	For every subject, a list of available sections offered should show up		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click ALL subjects	<ul style="list-style-type: none"> For every subject, a list of available sections offered should show up Intercepted network requests to /classes and /schedule should match response bodies requested by Cypress 	OK

Test ID	TC-4	Comment	Decision
Test description	Can Add Classes		OK
Verified Requirement	FUNC_SRS_(2.1)		
Initial conditions	Visit to baseURL + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		

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Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	Class should show up in the selected classes section when added		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> Sections for COMP should show up Intercepted network requests to /classes and /schedule for the COMP subject should match response bodies requested by Cypress 	OK
4	Click the + button for any random class.	<ul style="list-style-type: none"> Class should show up in the selected classes section 	

Test ID	TC-5	Comment	Decision
Test description	Can't Add Classes If It Conflicts		OK
Verified Requirement	FUNC_SRS_(2.2/2.3)		
Initial conditions	Visit to baseUrl + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		

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Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	Class is not added if it conflicts and a popup message stating "This class conflicts with current schedule!" shows up		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> Sections for COMP should show up Intercepted network requests to /classes and /schedule for the COMP subject should match response bodies requested by Cypress 	OK
4	Click the + button for any random class.	<ul style="list-style-type: none"> Class should show up in the selected classes Section 	OK
5	Find and try to add a class that happens at the same time as the class selected in the previous step	<ul style="list-style-type: none"> Class is not added Popup message stating "This class conflicts with current schedule!" shows up 	OK

Test ID	TC-6	Comment	Decision
Test description	Can Remove Classes		OK
Verified Requirement	N/A		

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Initial conditions	Visit to baseURL + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	Class should no longer be in the selected classes section if it removed		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> Sections for COMP should show up Intercepted network requests to /classes and /schedule for the COMP subject should match response bodies requested by Cypress 	OK
4	Click the + button for any random class.	<ul style="list-style-type: none"> Class should appear in the selected classes section 	OK
5	Click the X button for the class selected in the previous step.	<ul style="list-style-type: none"> Class should no longer be in the selected classes section 	OK

Test ID	TC-7	Comment	Decision
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Test description	Cost		OK
Verified Requirement	FUNC_SRS_(2.4)		
Initial conditions	Visit to baseURL + /planner => (csundash.kyeou.xyz/planner)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	When a class is added the costs are equal to the flat rates as provided by CSUN		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Click "Term" dropdown	<ul style="list-style-type: none"> Can see list of available semesters 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> Sections for COMP should show up Intercepted network requests to /classes and /schedule for the COMP subject should match response bodies requested by Cypress 	OK
4	Click the + button for any random class.	<ul style="list-style-type: none"> Class should show up in the selected classes Section Cost should update in the top right with the amount \$2326 	OK

3.3 MAJORS

Test ID	TC-8	Comment	Decision
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Test description	Can Visit All Majors		OK
Verified Requirement	FUNC_SRS_(4.0)		
Initial conditions	Visit to baseURL (csundash.kyeou.xyz)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	Every major should be able visitable, the link should match the provided REGEX pattern and the page should contain its respective Major Name		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Majors page	<ul style="list-style-type: none"> URL should be, "https://csundash.kyeou.xyz/majors" 	OK
2	Click every link on the page	<ul style="list-style-type: none"> URL should match REGEX => "/https:\\\\csundash.kyeou.xyz\\majors\\[a-z0-9]{4}/" 	OK

3.4 FACULTY

Test ID	TC-9	Comment	Decision
Test description	Can View Faculty Members		OK
Verified Requirement	FUNC_SRS_(3.0/3.2)		
Initial conditions	Visit to baseURL + /faculty => (csundash.kyeou.xyz/faculty)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		

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Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	For every subject, a list of professors who teach that subject should show up Intercepted network requests to /professors should match response bodies requested by Cypress		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Faculty page	<ul style="list-style-type: none"> URL should be, "https://csundash.kyeou.xyz/faculty" 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click ALL subjects	<ul style="list-style-type: none"> For every subject, a list of professors who teach that subject should show up Intercepted network requests to /professors should match response bodies requested by Cypress 	OK

3.5 RATINGS

Test ID	TC-10	Comment	Decision
Test description	Can View Ratings		OK
Verified Requirement	FUNC_SRS_(3.1)		
Initial conditions	Visit to baseURL + /faculty => (csundash.kyeou.xyz/faculty)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		

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Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	When a professor is selected, user should be taken to that Professors rating page, with the URL matching the REGEX provided		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Faculty page	<ul style="list-style-type: none"> URL should be, "https://csundash.kyeou.xyz/faculty" 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> COMP professors should show up Intercepted network requests to /professors should match response bodies requested by Cypress 	OK
4	Open dropdown for any professor	<ul style="list-style-type: none"> Professor Rating button should be visible 	OK
5	Click Professor Rating	<ul style="list-style-type: none"> URL should match REGEX => "/https:\\\\csundash.kyeou.xyz\\ratings\\[A-Z]{4}\\[[\\w+.?]*]*@[\\w+.?]**/" 	OK

Test ID	TC-11	Comment	Decision
Test description	Can Add Rating		OK
Verified Requirement	FUNC_SRS_(3.1)		
Initial conditions	Visit to baseURL + /faculty => (csundash.kyeou.xyz/faculty)	This is not relevant to the test but should happen as a precondition (beforeEach() as	

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		defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	The rating that is generated should show up when Post is clicked		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Faculty page	<ul style="list-style-type: none"> URL should be, "https://csundash.kyeou.xyz/faculty" 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> COMP professors should show up Intercepted network requests to /professors should match response bodies requested by Cypress 	OK
4	Open dropdown for any professor	<ul style="list-style-type: none"> Professor Rating button should be visible 	OK
5	Click Professor Rating	<ul style="list-style-type: none"> URL should match REGEX => "/https:\\\\csundash.kyeou.xyz\\ratings\\[A-Z]{4}\\[[\\w+\\.?]*]*@[\\w+\\.?]**/" 	OK
6	Fill in all required fields with random data and post the rating	<ul style="list-style-type: none"> The rating should show up, being the last on the page 	OK

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Test ID	TC-12	Comment	Decision
Test description	Can Add Rating [Negative]		OK
Verified Requirement	FUNC_SRS_(3.1)		
Initial conditions	Visit to baseURL + /faculty => (csundash.kyeou.xyz/faculty)	This is not relevant to the test but should happen as a precondition (beforeEach() as defined in the MOCHA framework)	
Tests inputs	N/A		
Data collection actions	N/A		
Tests outputs	N/A		
Assumptions and constraints	Internet connectivity is assumed to allow instantaneous loading of the website		
Expected results and criteria	If rating that doesn't have all the required fields, the post should fail and should not show up on the rating page		
Test procedure	Automated Cypress Mocha tests		
Step number	Action	Expected Result	Result
1	Visit Faculty page	<ul style="list-style-type: none"> URL should be, "https://csundash.kyeou.xyz/faculty" 	OK
2	Click "Subject" dropdown	<ul style="list-style-type: none"> Can see list of subject codes 	OK
3	Click COMP subject	<ul style="list-style-type: none"> COMP professors should show up Intercepted network requests to /professors should match response bodies requested by Cypress 	OK
4	Open dropdown for any professor	<ul style="list-style-type: none"> Professor Rating button should be visible 	OK
5	Click Professor Rating	<ul style="list-style-type: none"> URL should match REGEX => "/https:\\\\csundash.kyeou.xyz\\/" 	OK

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		<pre>ratings\/[A-Z]{4}\/[[\w+.?]*]*@[[\w+.?]*]*/"</pre>	
6	Fill in all BUT ONE required fields with random data and attempt to post the rating	<ul style="list-style-type: none"> Should get alert saying "All Fields Are Required" Rating should not be posted 	OK