

Iceshu4	Version: 1.0.0
Software Test Report	Date: 02/06/2023

ICESHU4

Software Test Report

1. Introduction

1.1 Purpose

This document's purpose demonstrates that the project meets its goals and to identify any defects before it is delivered. In this document, test case results are reported. Based on the use-case scenarios we talked about in the use-case document, these test cases were developed. Also, the test activities are described in this document and provides an overview of the methodology used in this document for data collection, reduction, and analysis as well as the hardware and software configurations and other test preparations.

1.2 Scope

This document's planning covers the processes for testing for the software as have been developed for the Cyberbullies-ICESHU4 course evaluation system.

1.3 Descriptions and Abbreviations

STR Software Test Report

UC Use Case

TC Test Case

SRS Software Requirements Specification

2. Descriptions of Test Activities

2.1 Document Security

Project stakeholders have access to this document. Additionally, only the development team (Cyberbullies) is authorized to change this page. Github provides access to the project. Only the development team and instructors of the BBM384 course have access to its repository. STR is stored in Google Docs, which only authorized individuals are able to access.

2.2 Data Recording, Reduction and Analysis

All of the testing data has been defined in the test case definitions. Manual testing is conducted in accordance with these data. The team members used a few tests to confirm their implementation.

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3. Test Preparation

3.1 Hardware Preparation

A computer with a strong internet connection was used for all tests. Computer has a AMD Ryzen 5 4600H processor and 16.0 GB RAM.

3.2 Software Preparation

Client software executing on Windows 11 and Google Chrome 113.0.5672.127 (Official Build) (64-bit) Version are used for testing.

The default embedded web server for Spring Boot is used, along with a local H2 database server.

3.3 Other Pre-test Preparations

The tasks required for the application were completed five days before the deadline. It was the responsibility of the application developers to test their work throughout this process and the presentation. Every member of the development team tests and records implementation errors themselves.

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4. Test Results

Use Case Number	Use Case Name	Test Case Description File Name	Retest?	Number of Activity Paths Tested	Number of Non-working Activity Paths	The time spent
1	Login	User enters the system by his/her email and password.	No	1	0	2min
2	Register	System creates an student account with the given user informations	No	3	0	3min
3	Logout	User closes his/her session and logout	No	1	0	1min
4	Forgot Password	System sends a new password to the user when the user forgot his/her password.	Yes	1	0	3min
5	Password Change	User can change his password by using the system	No	1	0	2min
6	Account view	User views his/her personal account in detail	No	1	0	1min
7	Account Update	User updates his/her personal account with changed information	Yes	1	0	2min

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8	Semester Create	Admin creates semester for the system	No	1	0	2min
9	Semester View	Admin views all the semesters on the system	No	1	0	1min
10	Semester Delete	Admin selects a semester and deletes that semester	No	1	0	1min
11	User Create	Admin creates a new user with given information	Yes	1	0	4min
12	User Update	Admin updates an existing user with given information	No	1	0	2min
13	User Delete	Admin deletes a specific user	No	1	0	2min
14	User View	Admin views all the users that registered on the system	No	1	0	2min
15	Student Ban	Admin bans students who use unsuitable answers on the forms.	Yes	1	0	2min
16	Course Create	Admin creates a course with the given information	No	1	0	2min
17	Course View	User views the courses based on his/her role	Yes	1	0	2min

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18	Course Delete	User deletes courses that s/he wants if his/her role is suitable	No	1	0	2min
19	Course Enroll	Students enroll in the courses that they want in their department.	No	1	0	1min
20	Course Drop	Students drops the selected course	No	1	0	1min
21	Form Create	Instructor creates an evaluation form on the course	No	1	0	2min
22	Form Update	Instructor updates the evaluation form by adding or removing questions	No	1	0	2min
23	Form Delete	User deletes the selected evaluation form	No	1	0	2min
24	Form Fill	Students fill the evaluation form with their answers and submit it or do it later.	Yes	1	0	4min
25	Form Publish	Instructor publishes the evaluation form to make students view the form and fill it.	No	1	0	2min

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26	Form Statistical Data View	User sees statistical data about the evaluation form questions and answers like pie charts and bar charts	Yes	1	0	3min
27	Form View	User views evaluation forms based on his/her roles or views the evaluation forms of a specific course	No	1	0	1min
28	Question Create	User creates questions for evaluation forms	No	1	0	2min
29	Question View	User views questions of the evaluation form or views the common questions.	No	1	0	1min
30	Question Delete	User deletes the question	No	1	0	2min
31	Question Option Create	User creates options for when creating questions	No	1	0	1min
32	Re-evaluation Request create	Instructor creates an re-evaluation request on a published evaluation form if s/he thinks that answers are not suitable	No	1	0	2min
33	Re-evaluation Request Accept	The Department Manager accepts the re-evaluation request and the related form will be published again.	Yes	1	0	2min

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34	Re-evaluation Request Decline	The Department Manager declines the re-evaluation request and the related re-evaluation form will stay as it is.	Yes	1	0	1min
35	Re-evaluation Request View	User views his/her re-evaluation forms	No	1	0	1min
36	Message Create	User sends message to admin if they have any problem on the system	No	1	0	2min
37	Message View	User views his/her messages	No	1	0	1min

4.1 Criteria for Evaluating Results

General Criterias:

- All test case statements should be executed.
- For each request, the system should provide the responses in milliseconds like 200ms.
- In case of crashes or errors, user should be notified by warning messages which are easy to understand
- The system must ensure robust security measures and maintain the integrity of each user's private data.
- The User Interface should be intuitive, user-friendly, and visually appealing to enhance the user experience.

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Specific Use Case Criterias:

- Register : Only students will be able to register to the system.
- Logout: User session should end and user should be navigated to the main page.
- Forgot Password: User should have a valid email.
- Semester Create, View, Delete: Only admin is allowed to do these operations.
- User Create,View, Update,Delete: Only admin is allowed to manage users.
- Course Enroll and Drop: Only Students have these functionalities.
- Course View: Courses should be listed according to the user's role and courses.
- Form Fill: Students can fill the forms if only they are not banned.
- Form and Question Use cases in general: Instructors are allowed to manage evaluation forms.

5. References

- Use Case Definitions (DEL2)- Cyberbullies
- Test Case Definitions (DEL2)- Cyberbullies
- Software Requirements Specification (DEL2) - Cyberbullies

6. Traceability Table

Traceability Table	Umut Güngör	Numan Kafadar	Mustafa Çağrı Korkmaz	Yunus Emre Terzi	Osman Faruk Derdiyok
Software Test Report		X			X