

ICES4HU	Version: 1.0
Software Test Report	Date: 01/06/2023

# ICES4HU

## Software Test Report

### 1. Introduction

#### 1.1 Purpose and Scope

The Software Test Report's purpose is to provide the findings, outcomes, and analysis of the software testing carried out on the online application for course and instructor evaluation. Additionally, this document includes test evaluation metrics to provide all stakeholders with information on the test's reliability.

#### 1.2 Descriptions and Abbreviations

*STR*      *Software Test Report*

*UC*        *Use Case*

### 2. Descriptions of Test Activities

#### 2.1 Document Security

To maintain the confidentiality and integrity of the STR, security measures have been implemented. Since only the team members and stakeholders can read this file, it may be said that the document is secure. All software vulnerabilities that are present in the papers are tested for and corrected before being stored in a private GitHub repository.

#### 2.2 Data Recording, Reduction and Analysis

The recording of test data is done manually and automatically. Then the data is processed and reduced using Postman and Chrome App Development Debugger with the given data sets. The data we used during testing was provided from the DEL2.Test\_Case\_Definitions.docx document. Tools helped us to test systems behavior, functionality and performance by using these test data.

### 3. Test Preparation

#### 3.1 Hardware Preparation

In order to test our system we need localhost to run the application. All requests are done on local computers.

#### 3.2 Software Preparation

Chrome Browser, Postman and IntelliJ IDE were used to test the application. In order to complete these test we followed the steps below:

- On the local host, the web application for course and instructor evaluation has been set up.

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- Databases and data storage systems (PostgreSQL) that are required have been set up and configured.
- Sample assessment forms and user profiles, among other test-related data, have been imported into the system with either Postman or Chrome Browser (by running the web application).

### 3.3 Other Pre-test Preparations

Tester had to be careful during and analyze the test inputs and he/she had to prepare and carefully study the use cases of the project.

## 4. Test Results

Use Case Number	Use Case Name	Test Case Description	Retest?	Number of Activity Paths Tested	Number of Non-working Activity Paths	The time spent
2	Login to the system	User logs in to system		5	1	1 hour
3	Add User	Admin adds user		5	0	1 hour
4	Add Course	Admin add course		6	0	1 hour
5	Edit Information	Edit profile information		4	0	1 hour
6	Create Course Survey	Instructor creates a survey by adding questions		3	0	1 hour
7	Create Instructor Survey	Instructor creates a survey		3	0	1 hour
9	Edit Survey	Instructor edits survey		2	1	1 hour
10	Check Result Survey	Instructor checks results of survey		3	0	1 hour
13	Assign Instructors	Department Manager		3	0	1 hour

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		assigns Instructors to courses				
14	Access Surveys	Department Manager Access Surveys for re-evaluate request		3	0	1 hour
TOTAL				37	2	10 hours

#### 4.1 *Criteria for Evaluating Results*

We employed a number of factors to assess our testing. Here are some factors:

1. Functionality: Measuring compliance with requirements and standards.
2. Usability: Assessing the application's usability and user-friendliness.
3. Security: Evaluating data protection and access controls.
4. Reliability: recognizing problems, crashes, and unexpected behavior.
5. Performance: Response times, stability, and resource usage
6. Compatibility: Ensuring that the application is compatible across several platforms.
7. Accuracy: Assessing the correctness of calculations and data processing.

#### 5. References

- DEL2.Test\_Case\_Definitions.docx document

#### 6. TRACEABILITY MATRIX

Team Member	Job
Hasan Malkoç - Software Tester	Created the document and ran the tests.