Testing Plan for Student Helper
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User Features

- Create and access an account
- Take tests
- See personal results
- Save favourite universities

Safety Features

- Valid authentication data
- Safe user database
- Protected university database

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Goals

By performing tests on the application, there is possible to:

- Debug efficiently
- Guarantee a stable system
- Ensure a quality user experience

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Strategy

At each step of the development there will be tests to ensure:

- Proper functionality

- Efficient memory usage

- Rapid execution with minimal wait times

Testing Tools

In order to automate some of the tests, testing tools will be used.
One such tool is FlaUI.

Test Organizing

The tests will be organized in Test Cases, and their results will be collected and evaluated

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Test Cases

Each test case consists of:

- User story to be tested

- Purpose

- Test Run Information

- Prerequisites

- Software Versions used

- Required Configuration

- Test Script Steps and Results

    - Step
    - Test Step/Input
    - Expected Results
    - Actual Results
    - Requirements Validated
    - PASS/FAIL

Test Case Example

System Test Case:
STUDENT HELPER
USER STORY U1: Create an account

Purpose: Verify the user story U1 (all parts).
Instructions: Anything in RED is mandatory, everything else is optional and should only be put in if it is needed to clarify how the test was performed.

Test Run Information:	Prerequisites for this test: None
Tester Name:	
Date(s) of Test:	Software Versions:
Location/server being used: localhost	Application: Student Helper beta 0.1
	Database: Student Helper Database
	Operating System: Windows 10
	Required Configuration: [browser setup, security or user ID roles]
	No special setup needed

NOTES and RESULTS:

TEST SCRIPT STEPS/RESULTS					
STEP	TEST STEP/INPUT	EXPECTED RESULTS	ACTUAL RESULTS	Requirements Validated	PASS/ FAIL
Create an account – Requirements Validated: 1.2.1, 1.2.2, 2.2, 2.3					
1.	Click on the Authentication button	Authentication form appears		1.2.1, 1.2.2	
2.	Input an email address in the email field	Able to enter text		2.2	
3.	Input a password in the password field	Able to enter text and password safety requirements are checked and ticked when fulfilled and password strength meter changes accordingly		2.3	
4.	Click on "Create Account" Button	The Student Helper Database Users table is checked for the existing email. If no duplicates are found an account is created and the User Page shows up		2.4	
Alternative Flow 1: The email address and/or the password is/are invalid or too weak					
5.		A warning appears, displaying the cause of		2.4.2.2	

TEST SCRIPT STEPS/RESULTS					
STEP	TEST STEP/INPUT	EXPECTED RESULTS	ACTUAL RESULTS	Requirements Validated	PASS/ FAIL
		failure			
6.	Repeat steps 2 to 4				
7.					
8.					
Alternative Flow 2: The email address is already present in the database					
9.		A warning appears, displaying a message stating that the email address is already present in the Student Helper database		2.4.2.2	
10.	Repeat steps 2 to 4				

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Testing Results

The results of both manual and automated tests will:

- Be stored and analysed

- In case any tests fail, the developers will be informed of the situation and requested to resolve the issues.

- Following the analysis, a summary of the tests will be created