# Test Plan: SoftwareTestH4

I. Introduction

1. Purpose of the Test Plan.

These tests are performed to ensure our program works as intended and does as expected so the client receives the desired product.

1. Scope – [what this test plan covers].

This test plan will cover our unit tests, why and what we are testing on their functionality. As well as crossplatform testing and Identity for security.

1. Features to be Tested 1. [feature to be tested], 2. [another feature to be tested], and so on…

Filehandling

2FA

Strong password

Username

Crossplatform should work that same

II. Test Environment

1. Windows Environment:

.NET 8 https

Operating system: Windows 10 or newer

Default connection string set to our database

Virtualization active

1. Linux Environment:

.NET 8 WSL

Operating system: Ubuntu LTS version

Mock connection creates our mock db

SQlite database

(potentially) edit WSL migration integers from ‘max’ to ‘500’

III. Test Cases

1. Compatibility Test

**Before Test:**

Have the application correctly work across multiple operating systems

**During Test:**

Create a test, to see if our application runs correctly on Windows and Linux

**After Test:**

The application works correctly on both operating systems without differences.

1. 2FA Test

**Before Test:**

We expect to complete this test by confirming a QRcode authentication process is working as intented

**During Test:**

After the user is logged in they can select their mail on the left side navbar and select the 2fa option to set up a 2 factor authentication for the active user, after clicking set up 2fa a page will be shown where a QRCode or activation code is present that we can scan to activated our 2 fa.

**After Test:**

We can login in with our account info and 2fa code from “google Authenticator” we created during the 2fa setup process.

1. Register Test

**Before Test:**

Register correctly accepts user information then sets up a 2 factor authentication and saves user data to the db

**During Test:**

data registered in db and user is created

**After Test:**

The registration page works correctly

1. Login Test

**Before Test:**

I set the test environment up to allow Login with either windows or WSL(Windows Subsystem for Linux) depending on our selected launch method.

**During Test:**

We login in using our account information and get access to the website features. If not there is account recovery option at the login stage.

**After Test:**

A successful login allows us to access the account settings and account info.

1. Authorization Test

**Before Test:**

We expect the logged in user to have limited access depending on the user access level.

**During Test:**

After login we can see that our access is restricted to show us the normal user pages.

**After Test:**

The logged in user have the correct access level set to their account which is restricting the information they are allowed to access.

IV. Conclusion

1. Summary of Test Results

After running all tests, we can conclude that everything is working correctly,

And all tests were successfully completed.

1. Recommendations

I would suggest implementing a user interface for assigning users as administrators.

V. Sign-off

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