Notesie

Test Plan

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# Introduction

The Test Plan document states the necessary information required in order to efficiently track and test the application’s progress and functionality. Alex Jones and Tom Osborne will undertake the testing. All aspects of the project will be tested to ensure a high level of test coverage.

# Compatibility Testing

## Test Risks/Issues

If the application is not compatible on all modern browsers, our main project objectives will not be achieved.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Application works on all browsers | This test ensures that the application functionality works across all modern browsers (Firefox, IE, Safari etc) | Tom Osborne |
| Application scales and adapts dependant on view port | This test ensures that the application scales and adapts depending on the screen resolution used by the end user. | Tom Osborne |

## Test Approaches

The testing will be undertaken inside a browser while running the application locally. The browser window will be resized to ensure the application adapts to the resolution it is being viewed from.

## Test Pass/Fail Criteria

The test will be determined as a pass if application adapts to the view port that the application is being displayed on. The test will be determined as a fail if the application does not adapt correctly, or if information is displayed outside of it’s designated field areas.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met and the application responds correctly.

## Test Environmental Needs

The requirements for the test to be undertaken accurately are as follows:

* Modern browsers installed on test PC e.g. (Firefox, Safari, IE & Opera)
* Latest version of Ruby on Rails installed on the test PC

# Functionality Testing

## Test Risks/Issues

If **any** of the application functions do not work correctly then the application’s objectives cannot be achieved.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Data validation | Ensures that no blank fields are entered throughout the application | Alex Jones |
| Data duplication | Ensures that data cannot be duplicated e.g. (email addresses can only be used once) | Alex Jones |
| Login and Sign up works correctly | Ensures that users can sign up and log in. Data is correctly stored in database | Alex Jones |
| Tutors only can create new Notesie and Bulletin Posts | Ensures that only Tutors can create new Notesie’s and news bulletins | Alex Jones |
| Notesies only displayed to students of selected subject | Ensures that Notesie’s are only displayed to the relevant group of students | Alex Jones |
| Password update works correctly | Ensures that password fields are updated correctly in database | Alex Jones |
| Users can sign off | Ensures the a user’s session is terminated | Alex Jones |

## Test Approaches

The testing will be undertaken inside a browser while running the application locally. Each test case will be executed using valid and invalid data to ensure that the expected results occur when valid data is entered and error handling is applied when invalid data is entered.

## Test Pass/Fail Criteria

The test will be determined as a pass if application functions correctly and that the expected results are in fact the actual result. If the application fails, it will be retested once fixed, until all criteria are met.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met and the application functions correctly and all requirements are met.

## Test Environmental Needs

The requirements for the test to be undertaken accurately are as follows:

* Modern browsers installed on test PC e.g. (Firefox, Safari, IE & Opera)
* Latest version of Ruby on Rails installed on the test PC

# User Interface Testing

## Test Risks/Issues

If the application is not easy to navigate then the application’s objectives cannot be achieved.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Navigation is easy to use | Ensures that the application navigation is both easy to use and persistent throughout the entire application | Tom Osborne |
| Displayed information conforms to standards | Ensures that all information is easily accessible for the user | Tom Osborne |

## Test Approaches

The testing will be undertaken inside a browser while running the application locally. Navigation should be maintained and easily accessible when resized to any view port.

## Test Pass/Fail Criteria

The test will be determined as a pass if the application navigation is consistent throughout and easy to use.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met and the application functions correctly and all requirements are met.

## Test Environmental Needs

The requirements for the test to be undertaken accurately are as follows:

* Modern browsers installed on test PC e.g. (Firefox, Safari, IE & Opera)
* Latest version of Ruby on Rails installed on the test PC

# Performance Testing

## Test Risks/Issues

If the application is not quick to load then the project requirements will not be met. The application must function perfectly under the normal anticipated workload and also under worst-case workload.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Each page loads quickly | Ensures that each page will load quickly without large waiting intervals | Tom Osborne |
| Application runs smoothly under anticipated workloads | Ensures that application remains stable under both anticipated and heavy workloads | Tom Osborne |

## Test Approaches

The testing will be undertaken inside a browser while running the application locally. The application will be tested for page load times and under heavy use. This includes multiple read, write and delete actions to the database.

## Test Pass/Fail Criteria

The test will be determined as a pass if the application remains stable and the page load times conform to standards.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met and the application functions correctly and all requirements are met.

## Test Environmental Needs

The requirements for the test to be undertaken accurately are as follows:

* Modern browsers installed on test PC e.g. (Firefox, Safari, IE & Opera)
* Latest version of Ruby on Rails installed on the test PC