Notesie

Test Plan

Tom



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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

# User Testing

## Test Risks/Issues

If users are unable to navigate the application and use its features easily and with the smallest learning curve possible, then the project objectives will not have been met.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Students can navigate the application | Ensures that the application is easy to use and has little or no learning curve | Tom Osborne |
| Tutors can create, edit and delete Notesie’s, tasks, links and bulletin items | Ensures that application is easy to use for the Tutors and that the main application features can be used with little or no learning curve | Tom Osborne |

## Test Approaches

The testing will be undertaken in the lecture room where a number of students and tutors will use the application under supervision to make sure each objective is achieved with no learning curve. The application will be tested for its User Interface and User Experience to confirm that project objective have been met.

## Test Pass/Fail Criteria

The test will be determined as a pass if the users find the application easy to use and each test case criteria has been met.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met successfully by the users and the application conforms to UI and UX standards.

## 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
* Students and Tutors to test all functionality

# Acceptance Testing

## Test Risks/Issues

If the application does meet the standards of the sponsor, then the application cannot be signed off as completed and rolled out for use within the college.

## Items to be Tested

|  |  |  |
| --- | --- | --- |
| Item to Test | Test Description | Responsibility |
| Application meets the requirements of the sponsor | Ensures that all objectives and requirements have been successfully met | Alex Jones |
| Application is adequate enough for use in the college | Ensures that the application has been a success | Alex Jones |

## Test Approaches

The sponsor will use the application to ensure it meets both the objectives stated in the project proposal and the sponsor’s individual requirements.

## Test Pass/Fail Criteria

The test will be determined as a pass if the application meets all requirements and the sponsor signs the application off as a success.

## Test Entry/Exit Criteria

The testing will be considered completed once the test criteria are met and the application has been signed off by the sponsor.

## 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