Test Summary Report

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## Purpose

This document explains the various testing activities performed as part of Testing CRUD Articles functionality of ‘BBlog" social blogging site’ application.

## Application Overview

‘BBlog" social blogging site’ is a web based application.

General functionality

* CRUD Articles
* CR\*D Comments on articles (no updating required)
* GET and display paginated lists of articles
* Favorite articles
* Follow other users

## Testing Scope

* + 1. **In Scope**

Functional Testing for the following functions in Scope of Testing

* + - * Create Article
      * Read Article
      * Update Article
      * Delete Article
    1. **Out of Scope**

Performance Testing was not done for this application.

Compatibility testing was not performed across different browsers

DB testing was not done for this application

Separate API testing was not performed using a API testing tool as the UIs are available

* + 1. **Items not tested**
* CR\*D Comments on articles (no updating required)
* GET and display paginated lists of articles
* Favorite articles
* Follow other users

## Test strategy

### Test case selection Criteria

* requirements-based criteria
* data based critera

### Positive Test cases

* C1reate - Start at the home page, click the New Article button, input form values, click the Publish Article button.
* R1ead - Start at the home page, go to tab your feed, select the Article, click on Read more link.
* R2ead - Start at the home page, go to tab Global feed, select the Article, click on Read more button
* R3ead- Start at the home page, select tag, go to matrix tab, select the Article,click on Read more button
* R4ead - Start at the home page, select user, go to user profile page, select the Article under my posts, click on Read more button
* R5ead - Start at the home page, select user, go to my profile page, select the Article favourite posts, click on Read more button
* U1pdate - Start at the home page, go to my profile, select article under My posts, click on Read more, Click on Edit button, change form values, click the save button.
* D1elete - Start at the home page, go to my profile, select article under My posts, click on Read more, Click on delete button.

### Negative test cases

### C2reate - Start at the home page, click the New Article button, input empty form values, click the Publish Article button.

* U2pdate - Start at the home page, go to my profile, select article under My posts, click on Read more, Click on Edit button, input empty form values, click the save button.
* U3pdate - Start at the home page, go to tab Global feed, select the Article created by other user, click on Read more button, Edit Article button should not be displayed
* D2elete - Start at the home page, go to tab Global feed, select the Article created by other user, click on Read more button, Delete Article button should not be displayed

## Automated tests selection Criteria

## Metrics

### No. of test cases planned vs executed

1. **No. of test cases passed/failed**
2. **No of defects identified and their Status & Severity**

## Types of testing performed

* + 1. **System Integration Testing**
       - This is the Testing performed on the Application under test, to verify the entire application works as per the requirements.
       - Critical Business scenarios were tested to make sure important functionalities in the application works as intended without any errors.
    2. **Regression Testing**
       - Regression testing was performed each time a new build is deployed for testing which contains defect fixes and new enhancements, if any.
       - Regression Testing is being done on the entire application and not just the new functionalities and Defect fixes.
       - This testing ensures that existing functionalities works fine after defect fix and new enhancements are added to the existing application.
       - Test cases for new functionalities are added to the existing test cases and executed.

<Describe the various types of Testing performed for the Project. This will make sure the application is being tested properly thro testing types agreed as per Test Strategy>

## Lessons Learnt

<This section is used to describe the critical issues faced and their solutions (how they were solved during the Testing). Lessons learnt will help to make proactive decisions during the next Testing engagement, by avoiding these mistakes or finding a suitable workaround >

|  |  |  |
| --- | --- | --- |
| **S. No** | **Issues faced** | **Solutions** |
| 1 | Smoke testing test cases required to be executed manually each time. | Smoke test cases were automated and the scripts were run, which ran fast and saved time. |

## Recommendations

* The client-side of the application is not always responsible for data integrity. Thus, it is necessary to validate its integrity through the APIs, the Database layer, and the UI
* Access permission to DB to verify DB changes when performing CRUD operations to verify that data changes from front-end are represented in DB accordingly.
* In case UI s are not yet completed we can verify the API, To successfully API Test, you need to have the correct tools such as Postman

## Best Practices

<There will be lot of activities done by the Testing team during the project. Some of them could have saved time, some proved to be a good & efficient way to work, etc. These can be documented as a ‘Value Add’ to show case to the Stakeholders.

**Example:** A repetitive task done manually every time was time consuming. This task was automated by creating scripts and run each time, which saved time and resources.

* Smoke test cases were automated and the scripts were run, which ran fast and saved time.
* Automation scripts were prepared to create new customers, where lot of records need to be created for Testing.
* Business critical scenarios are separately tested on the entire application which are vital to certify they works fine.

## Exit Criteria

<Exit Criteria is defined as a Completion of Testing by fulfilling certain conditions>

* + 1. All test cases should be executed – **Yes**
    2. All defects in Critical, Major, Medium severity should be verified and closed – **Yes**.
    3. Any open defects in trivial severity – **Action plan prepared with expected dates of closure.**

**Example:** No Severity1 defects should be ‘OPEN’; Only 2 Severity2 defects should be ‘OPEN’; Only 4 Severity3 defects should be ‘OPEN’. Note: This may vary from project to project. Plan of Action for the Open defects should be clearly mentioned with details on when & how they will be addressed and closed.>

## Conclusion/Sign Off

<This section will mention whether the Testing team agrees and gives a Green signal for the application to ‘Go Live’ or not, after the Exit Criteria was met. If the application does not meet the Exit Criteria, then it can be mentioned as – “The application is not suggested to ‘Go Live’. In this scenario, It will be left with the decision of Senior Management and Client and other Stakeholders involved to take the call on whether the application can ‘Go Live’ or not.>

As the Exit criteria was met and satisfied as mentioned in Section 10, this application is suggested to ‘Go Live’ by the Testing team. Appropriate User/Business acceptance testing should be performed before ‘Go Live’.