*<LEAVE MANAGEMENT SYSTEM>*

Test report

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| --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** |
| 1.0 | *Group N0.r= 13*  *Rashi Sahu=B15CS031*  *Rashmi Sahu =B15cs032* | *04/08/2017* |
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**Table of Contents**

[1.0 Introduction 5](#_Toc479062434)

[1.1 Purpose 5](#_Toc479062435)

[2.0 Test PLAN 5](#_Toc479062436)

[3.0 Test CASE Selection 5](#_Toc479062437)

[4.0 Test Results 5](#_Toc479062438)

[4.1 Login 5](#_Toc479062439)

[4.2 Add or remove students 6](#_Toc479062440)

[4.3 Submit Leave 6](#_Toc479062441)

[4.4 Manage Leave 6](#_Toc479062441)

[4.5 View Students 6](#_Toc479062441)

[4.6 Leave status 6](#_Toc479062441)

[4.7 Logout 6](#_Toc479062441)

[5.0 HEURISTIC UX tESTING 7](#_Toc479062442)

[6.0 Test Instances 7](#_Toc479062443)

[6.1 Resolved Test Incidents 7](#_Toc479062444)

[6.2 Unresolved Test Incidents 7](#_Toc479062445)

# 1.0 Introduction

## 1.1 Purpose

This *Leave Management System* Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test PLAN

* unit testing is done to idetify defects in particular modules.
* This will be followed by system testing to ensure that there are no differences in the requirements specification and the implemented software. It is also a check against high level design document.
* UX testing will be done to ensure that UX design principles are not violated

# 3.0 Test CASE Selection

* **LOGIN**: This is one of the core functionality as it is logged in a particular user into the system. There is just 6 test case concerning wrong id, password, check change password function.
* **ADD OR REMOVE STUDENTS**: This is one of the core functionality of the system because there may arise a need to add or remove students. There are 6 test cases concerning the editing of name, password, vaild mobile number, valid email address trying to make multiple students with identical details and deleting a student.
* **SUBMIT LEAVE**:This is one of the most important functionality of the system as it is submit leave of the student. There are 12 test cases to check vaild date, valid number or leaves, availibility of leave for particular student, check past date entries, negative number of leave and also check some functionalities exist in SRS such as withdraw leave , available number of leave, add attachment.
* **MANAGE LEAVE**: This is one of the most important functionality of the system as it is accept or reject leave for a student. There are 4 test cases to check that blank leaves are accepted or not, valid leaves are accepted or not.
* **VIEW STUDENT**: This is one of the core functionality of the system to view the student history. There are 3 test cases to check that history is show successfully for a particular student or not and all student history is shown by a system or not.
* **LEAVE STATUS**: This is one of the important functionality of system as it is help student that his/ her leave is accepted or not.thereare 3 test cases to check that leave status is shown successfully or not.
* **LOGOUT**: This is one of the core functionality of system. there are 2 test cases to check that user is logging out from the system or not.

# 4.0 Test Results

## Login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T1.1 | Assert that attempt to login as student with valid credentials succeeds | Student  Logins successfully | Pass | NA | NA | NA |
| T1.2 | Assert that attempt to login as admin with valid credentials succeeds | Admin logins successfully | Pass | NA | NA | Na |
| T1.3 | Assert that attempt to login as student with invalid credentials fails | Student login fails | Pass | NA | NA | NA |
| T1.4 | Assert that attempt to login as admin with invalid credentials fails | Admin login fails | Pass | NA | NA | NA |
| T1.5 | Assert that admin pages are accessible only after logging as admin | Student can also admin pages | Fail | High | Admin home page is accessible to any visitor on site ,even without login | User type must be properly added to the session |
| T1.6 | Assert that some feature should exist that renders to change  password route | No such feature exist | Fail | Medium | Change feature does not exist in the application.  However, it is mention in srs. | All the features mention in the srs should exist in the application. |

## Add or remove student

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| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T2.1 | Assert that  addition of a student with unique user id succeeds. | Student is  Successfully added | Pass | NA | NA | NA |
| T2.2 | Assert that  addition of a student with user id that already exists fails. | Student is not added | Pass | NA | NA | NA |
| T2.3 | Assert that  Only valid data can be submitted | Invalid data is also accepted | Fail | Medium | 1)Emails with invalid format is accepted.  2)Mobile no.s with characters or number of digits less than 10 are  accepted | Validity of the data should be checked |
| T2.4 | Assert that password is stored in encrypted form | Password is not encrypted | Fail | High | Password is stored in the form of normal text | Important and delicate information like passwords should be stored in encrypted form. |
| T2.5 | Assert that only existing student can be removed | Student is successfully removed | Pass | NA | NA | NA |
| T2.6 | Assert that only admin can add or remove student | Everyone logged in or without logged in add or remove students | Fail | High | Pages are accessible. | Pages should not be accessible without login by admin |

## submit leave

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| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T3.1 | Assert that leaves for the past dates should not be submitted | Past dates are accepted | Fail | High | Student is making leave request for the dates that have already passed . | Validity of dates should be checked |
| T3.2 | Assert that request for limited number of leaves should be submitted | Infinite number of leaves are submitted | Fail | High | Student can make leave request for larger number of days such as 1 lac.  However , it is mention in srs that each student can  Make request for a fixed number of leaves | Number of leaves in the leave request should be checked |
| T3.3 | Assert that submission of leave request for a valid date succeeds. | Leave submission succeeds | Pass | NA | NA | NA |
| T3.4 | Assert that the same leave request is not submitted multiple times | Same leave request is submitted | Fail | Medium | Student can submit the leave request for the date that has already been submitted | Feature should exist to check for the existence of the same leave request |
| T3.5 | Assert that negative number of leaves should not be accepted | Negative leaves are accepted | Fail | Medium | Student can make request for the negative number of leaves. | Validity of leaves should be checked |
| T3.6 | Assert that negative number of leaves in the form of character should not be accepted | Characters are accepted as number of leaves | Fail | Medium | Student can make leave request for the number of days in the form of characters | Number of leaves should be integer |
| T3.7 | Assert that some feature should exist that checks for the available number of leaves for a particular student | No such feature exist | Fail | Medium | There is no existence of the feature that checks for the available leaves .  Although it is mentioned in the srs | All the features mention in the srs should exist in the application |
| T3.8 | Assert that some feature exists that verifies the user details and permits the user to re-enter. | No such feature exists | Fail | Medium | No feature exists that verifies the details entered by the user and permits to re-enter.  However , it is mentioned in the srs | Features mentioned in srs should exist |
| T3.9 | Assert that the leave request for the dates upcoming within certain period of time is accepted | Leaves request for the date that is far away from the current date is accepted. | Fail | Medium | Student can submit the leave request for the upcoming dates after few years . | Define time period for applying leaves. |
| T3.10 | Assert that some feature exists that attach the required documents | No feature exists | Fail | Medium | No feature exists that upload the required documents.  However, it is mention in the srs | Application should all the features mentioned in the srs. |
| T3.11 | Assert that only valid data is submitted | Leaves for negative dates are submitted | Fail | Medium | Student can submit request for negative dates. | Validity of date should be checked |
| T3.12 | Assert that some feature exists that withdraw the leave request | No feature exists | Fail | Medium | No feature exists that withdraws the submitted leave request | Application should all the features mentioned in the srs |

## manage leave

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T4.1 | Assert that no leave request are pending than number of leaves for a particular should not be incremented | Number of leaves taken are incremented | Fail | Medium | Although no leaves request are pending ,even then number of leaves for a particular student is incremented  on accessing approve function | Number of leaves should be incremented  only if there is some pending leave request and it is approved |
| T4.2 | Assert that on rejecting leave request number of leaves taken should remain same | Number of leaves taken remain same | Pass | NA | NA | NA |
| T4.3 | Assert that on approving the leave request the number of leaves taken should be incremented by the number of days for mentioned in the leave request | Number of leaves taken is incremented by one | Fail | High | Everytime the leave request is approved the number of leaves taken for a particular student is incremented by one | Number of leaves should be modified |
| T4.4 | Assert that on approval or rejection of the leave request student is notified via mail | No feature exist for sending mail to the students | Fail | Medium | No feature exists for notifying the students via mail .  However , it is mentioned in the srs | Application should map all the features mentioned in the srs |

## View students

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T5.1 | Assert that only user logged in as admin can view the details of all the registered students | Any user who visits the site can view the student details | Fail | Medium | As mention in the srs only admin can view the details of the students.  But in this case any user can view the same | Modify it so that only admin can access that page |
| T5.2 | Assert that admin able to view the details of student | Admin able to view | Pass | NA | NA | NA |
| T5.3 | Assert that all student history is shown by the system | All student history is ot shown | Fail | HIgh | Table is overloaded | Scrollbar does not exist |

## 4.6 leave status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T6.1 | Assert that if no leave has been taken by a student than some  appropriate message should be displayed in its leave status | No such message is displayed | Fail | Low | Some message should be displayed in leave status if no leave has been taken by a student as it is mentioned in the srs | Modify the leave status to display some message |
| T6.2 | Assert that latest leaves taken by a student is displayed | Latest leave taken is displayed | Pass | NA | NA | NA |
| T6.3 | Assert that if admin reject the request after approving it then it should consider it as approved as admin can accept or reject only once | Leave is shown as rejected in leave status even though the number of leaves taken are incremented | Fail | Medium | Action taken by the admin earlier should only be considered  i.e. admin can reject or approve the request only once and the leave status relevant to that should be displayed | Improve the leave status to show the correct result |

## 4.7 Logout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T7.1 | Assert that Users (Student and Admin)pages are not accessible after logging out. | Pages are accessible | Fail | Medium | It is directed to login page but not actually logs out | Home pages should not be accessible after logging out. |
| T7.2 | Assert that after log out it is directed to login page | It is directed to login page | Pass | NA | NA | NA |

# 5.0 HEURISTIC UX tESTING

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| --- | --- | --- | --- |
| Test Case ID | Issue | Heuristics | Severity |
| UT1 | Blank page is displayed with a echo massage at unsuccessful login attempt | **Visibility of system status** | Low |
| UT2 | Content of a table is overloaded and full content is not displayed. Scroll Bar is not exist in table. | **Visibility** | High |
| UT3 | There are two headers:  1.Gray header at the top .  2.Without color header just below to it. | **Recognition rather than recall** | Low |
| UT4 | There is no error massage shown to help the users to get rid of his mistake. | **Help users recognize, diagnose, and recover from errors** | Medium |
| UT5 | No notifications is shown to show the system status. | **Visibility of system status** | Low |
| UT6 | Echo statements used for the purpose of testing are displayed | **Bad UX design** | Low |
| UT7 | Inconsistency in color | **Consistency and standards** | Low |

# 6.0 Test Instances

[Provide a brief description of the unexpected results, problems, or defects that occurred during the testing.]

## Resolved Test Incidents

*[Identify all resolved test incidents and summarize their resolutions. Reference may be made to Test Incident Reports that describe in detail the unexpected results, problems, or defects reported during testing, along with their documented resolutions, which may be included as an appendix to this document.]*

*[This will be filled by the dev team.]*

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Resolution Taken |
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|  |  |  |
|  |  |  |

## Unresolved Test Incidents

[Identify all unresolved test incidents and provide a plan of action for their resolution. Reference may be made to Test Incident Reports that describe in detail the unexpected results, problems, or defects reported during testing, which may be included as an appendix to this document.]

*[This will be filled by the dev team.]*

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Why not resolved |
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