**ATTENDENCE MANAGEMENT SYSTEM**

**TEST REPORT**

**DATE: 06/04/2017**

VERSION HISTORY

|  |  |  |
| --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** |
| 1.0 | *Group 5* | *06/04/2017* |
| 2.0 | *Group 13* | *21/04/2017* |

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**Table of Contents**

[1.0 Introduction 3](#_Toc479062434)

[1.1 Purpose 3](#_Toc479062435)

[2.0 Test PLAN 3](#_Toc479062436)

[3.0 Test CASE Selection 3](#_Toc479062437)

[4.0 Test Results 4](#_Toc479062438)

[4.1 Functionality 1 4-5](#_Toc479062439)

[4.2 Functionality 2 5](#_Toc479062440)

[4.3 Functionality 3 7](#_Toc479062441)

[5.0 HEURISTIC UX tESTING 8](#_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 **ATTENDENCE MANAGEMENT SYSTEM** Test Report provides a summary of the results of test performed as outlined within this document.

# **2.0** **TEST PLAN**

# The test plan for this project can be summed up into the following major goals:

# 1. To check whether the actual software follows the SRS completely or not

# and if not then accommodate the changes in the report.

# 2. To check the software for any errors, bugs and unexpected

# behavior and if there, then changes in the report.

# 3. To see if all functionality works in the project.

# 4. To see if UI/UX of the software is consistent and follows the standard so everyone can understand it easily.

# 5. To give the precise suggestions to overcome the error part.

# **3.0** **Test Case Selection**

# Test cases were created to test the following functionalities of the software:

# 1**. Admin’s functionalities**: Admin is the first one who can add Students, Instructors and Courses for the entire project and if there is any error in this, than the whole system will not work.

# 2. **Student’s functionalities**: Here the student can select the courses and view his/her attendance, so this functionality should be checked with different test cases ,if there is any problem in selection of courses then the Instructor will not able to take his attendance in that particular course.

# 3**. Instructor’s functionalities**: Here the Instructor can add the attendance of the students and updated the attendance in case of any discrepancy, this is the major functionality of the system and should be checked against various test cases and if any error occurred then report in the test cases specified in the test report.

# 4.0 **Test Results**

# Number of tests conducted: 11

Number of tests failed: 8

Number of tests passed: 3

## Admin’s functionalities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T1.1 | When course name is given it should have been understood. | It takes negative and some special characters also. | Fail | Medium | Course names should not need to have negative values |  |
| T1.2 | There will  be only  one  instructor  for one  course. | Accepting more than one instructor for one course | Fail | High | SRS has assumption that one course can have only one instructor but in actual system, a course can have multiple instructor |  |
| T1.3 | Roll number have some meaning it should be like b30. | Roll number should not be like \*\*\*\*. | Fail | Medium | If roll number is like this we cannot make distinguish between students by roll number them. |  |
| T1.4 | Email & Mobile number should be of valid format | It shows an error message when we type some ambiguous inputs. | Pass | N/A | When user tries some ambiguous inputs it shows some error message on display. |  |
| T1.5 | When we write some ambiguous input than numeric in semester then it always shows zero. | Successfully added. | Fail | Medium | Semester can be represented like in roman letters but it takes always zero when we take anything other than numeric value. |  |

## Student’s functionalities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T2.1 | Courses can be  registered  only once  by student. | Student  Can register  Course any time | Fail | High | Student can change their  Registered course  at any time  because they can register  Course more than once. |  |
| T2.2 | Students should not have same roll no. | Shows error message. | Pass | N/A | It shows an error message when we type the existing students roll no. |  |
| T2.3 | Successfully deleted during deletion of students if something ambiguous input is deleted. | Successfully deleted | Fail | Low | Instead of showing an error message when user id is incorrect ,it shows successfully deleted but nothing actually is being deleted |  |

## . Instructor’s functionalities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Intended Result | Actual Result | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Comments |
| T3.1 | During login, password should be what is during sign up. | Successful in login. | Fail | High | As password is a security issue which we are protected. It Should be actual whatever be given during sign up. It also accept the uppercase letters also. | When we are taking UPPERCASE instead of lowercase then the password is also accepted. |
| T3.2 | Any Date of birth is accepted. | Date of Birth is shown of the future dates also and accepted. | Fail | Medium | Date of Birth for any user cannot be in future values. It should be before present date |  |
| T3.3 | Instructor should be able to view attendance. | Instructor can view attendance | pass | N/A | It shows the desired attendance sheet of the students. |  |

# 5.0 HEURISTIC UX TESTING

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | Issue | Heuristics | Severity |
| UT1 | User is unable to distinguish between login page of instructor and student | Visibility and System status | Low |
| UT2 | Wrong serial number in view instructor UI | Consistency and standards | Low |
| UT3 | Undefined function(Add attendance) in student view attendance UI | Aesthetic and minimalist design | Low |
| UT4 | At signup if user enter a wrong information after error message whole information remove rather than wrong information | Recognition rather than recall | Low |
| UT5 | Showing code implementation error at UI | Aesthetic and minimalist design,  Visibility of System | High |

# 6.0 Test Instances

## Resolved Test Incidents

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Resolution Taken |
| *T1.1* | *Accepting special characters as a course name* | *Modify it such that it accepts only characters and numbers as a course name* |
| *T1.2* | Accepting more than one instructor for one course | *Checked that the course has already taken by one instructor ,if yes then it will not accept another instructor* |
| *T1.3* | *Accepting roll no. with no proper format* | *Specified the format of roll no. i.e. starts with “B15* |
| *T1.5* | *Accepting ambiguous input rather than numeric as a semester number* | *Specifies the values 1-8 for semester, user has to select any one value* |
| *T2.1* | *Courses were getting registered any no. of time by a student rather than once* | *Checked that the course has already been registered by a student ,if yes then it will not get registered by a same student* |
| *T2.3* | Instead of showing an error message when user id is incorrect ,it shows successfully deleted but nothing actually is being deleted | *Checked for the entries entered for a student to be deleted , if matched then it shows successfully deleted* |
| *T3.1* | *During login it also accepts the password in uppercase letters although during sign up the password given was in lowercase* | *Solve it by matching the two passwords considering their cases* |
| *T3.2* | *Accepts the future date as a date of birth* | *Checked if the entered date of birth is less than current date , if not then it shows an error message* |
| *UT1* | User is unable to distinguish between login page of instructor and student | *Set the label Instructor*  *on the instructor’s page* |
| *UT2* | Wrong serial number in view instructor UI | *Solved by decrementing the serial number* |
| *UT3* | Undefined function(Add attendance) in student view attendance UI | *Solved by writing View attendance in place of Add attendance* |
| *UT4* | At signup if user enter a wrong information after error message whole information remove rather  than wrong information | *Solved by displaying the entered values in the form even if the values are incorrect but if all the entries are correct then the page is reloaded* |
| *UT5* | Showing code implementation error at UI | *Solved by removing the unnecessary printing statements* |

## Unresolved Test Incidents

|  |  |  |
| --- | --- | --- |
| Test Case ID | Summary of Defect | Why not resolved |
| *None* | *None* | *None* |