*Student Attendence Management System*

Test report

Version *1.0*

*01/04/2016*

VERSION HISTORY

[Provide information on how the development and distribution of the Test Report was controlled and tracked. Use the table below to provide the version number, the author implementing the version, the date of the version, the name of the person approving the version, the date that particular version was approved, and a brief description of the reason for creating the revised version.]

|  |  |  |
| --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** |
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4. To update the Table of Contents, right-click and select “Update field” and choose the option- “Update entire table”
5. Before submission of the first draft of this document, delete this “Notes to the Author” page and all instructions to the author, which appear throughout the document as blue italicized text enclosed in square brackets.]

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# 1.0 Introduction

## 1.1 Purpose

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

# 2.0 Test PLAN

This test report consists of the testing of the software STUDENT ATTENDANCE MANAGEMENT SYSTEM using various testing techniques like System Testing, Unit Testing, User Acceptance Testing, Regression Testing and Performance Testing. The accepted requirement criteria were selected based on various factors like user response time, requirements specification, latency, normal data transfer, user acceptance criteria, bug fixing impacts and overall system requirements.

# 3.0 Test Assessment

The testing environment was complete and adequate. Every module was tested thoroughly and all possible cases were considered.

# 4.0 Test Results

The testing environment gave many insights upon the software. Various bugs were identified and repaired. The software deviated from its usual path according to the specification along with lots of other unpredicted behaviors on various situations. The detailed description of the tests follows below.

## Unit/Module/System Testing

Unit, module, and system integration testing activities were performed during the development of the system build or release.

## 4.2 System Testing

The table below summarizes the results of system testing:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| ST1 | 03/04/16 | Kartik | Pass |  | Admin Login Web Page is not linked with main Web Application |  | Accepted |
| ST2 | 03/04/16 | Kartik | Pass |  | Normal user cannot access the Admin data without Authentication using Session  Hijacking |  |  |
| ST3 | 03/04/16 | Kartik | Fail | Medium | Primary Key is not Appropriately used |  | The markers must be mentioned. |
| ST4 | 03/04/16 | Kartik | Pass |  | “purpose” field in Database |  | Provision must be given |
| ST5 | 03/04/16 | Kartik | Fail | High | The system can be crashed easily using Cross Site Scripting |  | Provision must be given |
| ST6 | 03/04/16 | Kartik | Pass |  | SQL Injection |  |  |
| ST7 | 03/04/16 | Kartik | Pass |  | Password encryption |  | Passwords are encrypted |
| ST8 | 03/04/16 | Kartik | Fail | High | Domain and site names are not unique and are not consistent with the pattern |  | Provision must be given |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## User Acceptance Testing

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| UA1 | 03/04/16 | Prakhar | Fail | High | Generate QR code |  | Same QR Code generated |
| UA2 | 03/04/16 | Prakhar | Fail | Low | User Login |  | No form validation |
| UA3 | 03/04/16 | Prakhar | Fail | Medium | View Statistics |  | No provision for admin to see statistics for a course(SRS) |
| UA4 | 03/04/16 | Prakhar | Fail | Medium | Input data |  | No provision to input duration(SRS) |
| UA5 | 03/04/16 | Prakhar | Fail | Medium | Query student information |  | No provision for instructor to see which courses a student is registered to.(SRS) |
| UA6 | 03/04/16 | Prakhar | Pass |  | Permissions verification |  | Accepted solution |
| UA7 | 03/04/16 | Prakhar | Pass |  | Contact page |  | Accepted solution |
| UA8 | 03/04/16 | Prakhar | Pass |  | Change password |  | Accepted solution |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## Regression Testing

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
|  |  |  |  |  |  | <Yes> or <No> |  |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## Performance Testing

The table below summarizes the test cases employed for performance testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | P/F | Description | Summary | Acceptance Criteria | Comments |
| PT1 | 03/04/16 | Kartik | Pass | Open application | Load:283ms  Finish: 115ms  Requests: 9  Data: 3.9kb | Performance: <1s  Requests: < 25 | Accepted solution |
| PT2 | 03/04/16 | Kartik | Pass | User Login | Load:340ms  Finish: 152ms  Requests: 9  Data: 6kb | Performance: <1s  Requests: < 25 | More time than opening the application |
| PT3 | 03/04/16 | Kartik | Pass | Logout | Load:281ms  Finish: 118ms  Requests: 9  Data: 4kb | Performance: <1s  Requests: < 25 | Accepted solutions of time and data |
| PT4 | 03/04/16 | Kartik | Pass | Administration login | Load:266ms  Finish: 471ms  Requests: 10  Data: 7kb | Performance: <1s  Requests: < 25 | Accepted solutions of time and data |
| PT5 | 03/04/16 | Kartik | Fail | Add data | Load:1802ms  Finish:1818ms  Requests: 23  Data: 13kb | Performance: <1s  Requests: < 25 | Exceeded times of latency |
| PT6 | 03/04/16 | Kartik | Fail | Load data | Load:549ms  Finish:536ms  Requests: 28  Data: 18.4kb | Performance: <1s  Requests: < 25 | Exceeded times of request size |
| PT7 | 03/04/16 | Kartik | Pass | Change password | Load:224ms  Finish:192ms  Requests: 8  Data: 2.5kb | Performance: <1s  Requests: < 25 | Accepted solutions of time and data |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## Login Page

The table below summarizes the test cases employed for module testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| MT11 | 03/04/16 | Priyank | Pass |  | Multiple users with same username not allowed |  | Error message shown |
| MT12 | 03/04/16 | Priyank | Fail | Medium | Username must be consistent with a pattern. |  | Username must not start with numbers etc. |
| MT13 | 03/04/16 | Priyank | Pass |  | Password encryption |  | Password is encrypted |
| MT14 | 03/04/16 | Priyank | Fail | High | Password strength not checked |  | Single digit characters are allowed as passwords |
| MT15 | 03/04/16 | Priyank | Pass |  | Login consistency |  | Another tab opens with the same login history |
| MT16 | 03/04/16 | Priyank | Pass |  | Display notification when user is logged in |  | Accepted solution |
| MT17 | 03/04/16 | Priyank | Fail | Medium | No notifications on invalid input by the user |  | Invalid input should be rejected |
| MT18 | 03/04/16 | Priyank | Fail | Low | Same password can be used by 2 people |  |  |
| MT19 | 03/04/16 | Priyank | Pass |  | Error detection when no credentials are entered |  | Accepted |
| MT110 | 03/04/16 | Priyank | Pass |  | Data limitation on username |  | 30 characters |
| MT111 | 03/04/16 | Priyank | Fail | Medium | No data limitation on password |  |  |
| MT112 | 03/04/16 | Priyank | Pass |  | 2 step password verification |  | Password is matched before it is submitted. |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## Home page(Student)

The table below summarizes the test cases employed for module testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| MT21 | 03/04/16 | Sukesh | Pass |  | All courses shown |  | Accepted |
| MT22 | 03/04/16 | Sukesh | Pass |  | Each attendance in every course is shown |  |  |
| MT23 | 03/04/16 | Sukesh | Fail | Low | Graph is built with no identifiable distinction. |  | The markers must be mentioned. |
| MT24 | 03/04/16 | Sukesh | Fail | Medium | No provision for query is given in case of attendance discrepancy |  | Provision must be given |
| MT25 | 03/04/16 | Sukesh | Fail | Medium | No field for checking attendance of other courses on the same page is given |  | Provision must be given |
| MT26 | 03/04/16 | Sukesh | Fail | High | No expire time is given for login |  | There must be some expiry time |

## Contact Page

The table below summarizes the test cases employed for module testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| MT31 | 03/04/16 | Prakhar | Pass |  | Contacts are shown |  | Accepted |
| MT32 | 03/04/16 | Prakhar | Fail | Medium | No other information is shown |  |  |
| MT33 | 03/04/16 | Prakhar | Fail | Low | No interaction with the user |  |  |
| MT36 | 03/04/16 | Prakhar | Pass |  | Same page for all users |  | Accepted |

## Home page(Faculty)

The table below summarizes the test cases employed for module testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| MT41 | 03/04/16 | Priyank | Pass |  | All courses shown |  | Accepted |
| MT42 | 03/04/16 | Priyank | Pass |  | Each attendance in every course is shown |  |  |
| MT43 | 03/04/16 | Priyank | Fail | High | QR code is not unique |  | QR code generated must be unique. |
| MT44 | 03/04/16 | Priyank | Fail | Medium | No provision for query is given in case of attendance discrepancy |  | Provision must be given |
| MT45 | 03/04/16 | Priyank | Fail | Medium | No field for checking attendance of other courses on the same page is given |  | Provision must be given |
| MT46 | 03/04/16 | Priyank | Fail | High | No expire time is given for login |  | There must be some expiry time |

## Home page(admin)

The table below summarizes the test cases employed for module testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect | Summary | Closed prior to Release? | Comments |
| MT51 | 03/04/16 | Kartik | Pass |  | New webpage for admin |  | Accepted |
| MT52 | 03/04/16 | Kartik | Pass |  | Recent actions are shown |  |  |
| MT53 | 03/04/16 | Kartik | Fail | Low | “VIEW SITE” functionality does not have any significance for admin |  | It must be removed. |
| MT54 | 03/04/16 | Kartik | Pass |  | Addition of courses, sites and users functionality is given |  |  |
| MT55 | 03/04/16 | Kartik | Fail | High | Domain name and display name are not checked |  | Provision must be given |
| MT56 | 03/04/16 | Kartik | Fail | High | Domain and display name are not encrypted |  | There must exist some encryption. |
| MT57 | 03/04/16 | Kartik | Pass |  | Functionality for performing multiple actions on various entities is given |  |  |
| MT58 | 03/04/16 | Kartik | Fail | High | When a group is selected, the page shows an error |  | Must be taken care of. |
| MT59 | 03/04/16 | Kartik | Pass |  | Reconfirmation on deletion |  |  |
| MT60 | 03/04/16 | Kartik | Pass |  | Users and groups are shown distinctly |  |  |
| MT61 | 03/04/16 | Kartik | Fail | Medium | “CHANGE” has the same functionality as that of “users” |  | It must be removed. |
| MT62 | 03/04/16 | Kartik | Pass |  | Addition of permissions and various functionalities |  |  |
| MT63 | 03/04/16 | Kartik | Fail | Medium | No provision for adding groups when adding users and vice-versa |  | Some provision must be added |
| MT64 | 03/04/16 | Group 6 | Fail | High | No provision for password change for users on their page itself |  | Some provision must be provided |

# 5.0 Variances

[Describe any variances between the testing that was planned and the testing that actually occurred. Also, provide an assessment of the manner in which the test environment may be different from the operational environment and the effect of this difference on the test results.]

# 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.]*

## 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.]*

# 7.0 Recommendations

[Describe what actions are suggested upon completion of this test. Provide any recommended improvements in the design, operation, or future testing of the business product that resulted from the testing being reported. A discussion of each recommendation and its impact on the business product may be provided. If there are no recommendations to report, then simply state as such.]

APPENDIX A: REFERENCES

[Insert the name, version number, description, and physical location of any documents referenced in this document. Add rows to the table as necessary.]

The following table summarizes the documents referenced in this document.

|  |  |  |
| --- | --- | --- |
| **Document Name** | **Version** | **Description** |
| *<Document Name>* | *<Version Number>* | *[Provide brief description of the document]* |

APPENDIX B: KEY TERMS

*[Insert terms and definitions used in this document. Add rows to the table as necessary.]*

The following table provides definitions for terms relevant to this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |