*<exam management system>*

Test report

Version *<1.0>*

*<04/05/2016>*

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** |
| 1.0 | *14* | *<04/05/16>* |
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***Note to the Author***

[This document is a template of a **Test Report** document for a project. The template includes instructions to the author, example text, and fields that should be replaced with the values specific to the project.

* Blue italicized text enclosed in square brackets ([text]) provides instructions to the document author, or describes the intent, assumptions and context for content included in this document.
* Blue italicized text enclosed in angle brackets (<text>) indicates a field that should be replaced with information specific to a particular project.
* Text and tables in black are provided as examples of wording and formats that may be used or modified as appropriate to a specific project. These are offered only as suggestions to assist in developing project documents; they are not mandatory formats.

When using this template for your project document, it is recommended that you follow these steps:

1. Replace all text enclosed in angle brackets (e.g., <Project Name>) with the correct field values. These angle brackets appear in both the body of the document and in headers and footers.
2. Modify example text as appropriate to the specific project.
3. To add any new sections to the document, ensure that the appropriate header and body text styles are maintained. Styles used for the Section Headings are Heading 1, Heading 2 and Heading 3. Style used for boilerplate text is Body Text.
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  *EXAM MANAGEMENT SYSTEM*  Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test PLAN

SRS (Software Requirement Specifications) document was thoroughly analyzed and it was tested whether requirements are being met. Thereafter functionality of individual modules was tested before integration testing where the relationships between the modules were tested.

# 3.0 Test Assessment

A few mistakes in the functionality of the software as well as the user interface although the latter ones were minor. Notifications and mails were tested and worked fine. Also the seating arrangements were being generated as desired. System testing was done based on the use cases mentioned in the SRS whereas User Acceptance testing was based on the terms and functionalities given in SRS. The structure of the database was efficient.

# 4.0 Test Results

Most of the errors are related to the functionality and inappropriately designed User Interface. Some errors were related to redundant entries. The database was a little inconsistent in the sense that duplicate entries were allowed and left unhandled. A few user requirements weren’t provided.

## 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 [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
| 1 | 05/03/16 |  | P |  |  |  | Error message is being displayed if inputs are insufficient |
| 2 | 05/03/16 |  | P |  |  |  | When necessary inputs are provided, an efficient seating arrangement is being generated with rows and columns per room. |
| 3 | 05/03/16 |  | P |  |  |  | Make-up exams can be added |
| 4 | 05/03/16 |  | P |  |  |  | List of make-up exams can be viewed |
| 5 | 05/03/16 |  | F |  | Duplicate entries are being allowed while creating a new makeup exam. |  | Redundant entries should be handled. |
| 6 | 05/03/16 |  | F |  | No error message is shown if timetable format is wrong. |  | The timetable is supposed to be verified first. |
| 7 | 05/03/16 |  | F |  | No error message if instructors list format is incorrect. |  | If columns are missing, instead of blank result it should display error message. |
| 8 | 05/03/16 |  | F |  | No error detected when students list is in the wrong format. |  | Format errors should be displayed. |
| 9 | 05/03/16 |  | F |  | List of TAs is not being asked for. |  | As specified in the SRS, there should be a tab for TAs. |
| 10 | 05/03/16 |  | F |  | No separate button for attendance sheet. |  | User does not get to know that attendance sheet is being generated. He/she has to check the files. |

*[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 [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
| 1 | 05/03/16 |  | P |  |  |  | User is able to generate a seating plan on providing the time-table and students. |
| 2 | 05/03/16 |  | P |  |  |  | User is able to add make-up exam entries. |
| 3 | 05/03/16 |  | P |  |  |  | User is able to mail guidelines to students. |
| 4 | 05/03/16 |  | P |  |  |  | The Help file can be accessed. |
| 5 | 05/03/16 |  | F |  | Resource allocation sheet is missing |  | Resource allocation sheet is mentioned in the SRS. |
| 6 | 05/03/16 |  | F |  | There is no option for mailing seating plan. |  | As per the SRS the provision for mailing seating plan should have been there. |
| 7 | 05/03/16 |  | F |  | Certain classes and methods don’t exist as per SRS. |  | Classes like invigilator duty, resource management are not mapped from class diagram to code. |

*[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 | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This 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.]*

## <Type of Test>

The table below summarizes the test cases employed for <type of test (e.g., unit/ module/ interface 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 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.]*

# 5.0 Variances

Performance will depend on the machine on which it is being run, and might be hampered. Successful running of the software depends on the Operating System as well.

# 6.0 Test Instances

Unexpected results:

1. Entries are getting submitted when they already exist, even when all the fields are repeated.

2. The duplicate entries are being displayed multiple times on viewing the list of entries.

3. Primary key has not been assigned for handling redundancy.

## 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

User Interface of the software can be improved, like alignment issues while maximizing screen and two pages within the generate arrangement option. Functionalities of the software must be thoroughly checked again and should be in synchronization with the SRS. Duplicity is a serious problem and is unacceptable, therefore must be handled efficiently.

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** |
| Instructor | Instructor is a person who instructs a course in the academic institution where this software is being used |
| TA | TA stands for teaching assistant of the respective course. |
| Attendance Sheet | Attendance is a partially blank excel sheet which contains (in one column) the list of names and roll numbers of students to be seated in a room and blank space |