**Objective** **Exam Management System**

report

Version

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 | *Group 7* | *05/04/16* |
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|  |  |  |

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[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.
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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 “Objective Exam Mangement System” Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test PLAN

# The project was tested against provided SRS for implementation details of different use cases. Several input outputs were checked to check control flow and data flow and domain testing. The code implementation was verified using the mentioned activity and sequence diagrams.

# 3.0 Test Assessment

# All implemented and possible testing components and techniques were checked.

# 4.0 Test Results

# The project was successfully tested. Test plan was strictly followed as mentioned above. All missing and required use cases were reported. All malfunction or improper implementation were reported. The needed changes and improvements were also reported.

## 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 | 1/04/16 | Abhinav | Fail | High | Faculty cannot View how the students in exam made by him did. | <Yes/No> | Faculty use case of class performance and view performance is not there. |
| 2 | 1/04/16 | Abhinav | Pass | Low | Response by student is not saved one by one. |  | Take exam sequence diagram shows the response being saved one by one. |
| 3 | 1/04/16 | Rishabh | Fail | Low | Multiple faculties possible for multiple courses. |  | In class diagram – association is One to Many from Faculty to Course. |
| 4 | 1/04/16 | Rishabh | Pass | Low | Exam question not saved one by one. |  | Make exam activity diagram shows response saved one by one. AJAX is not used. |
| 5 | 1/04/16 | Abhinav | Fail | High | Exam for a course can be created even if course is deleted. |  | Delete course from faculty db also. |
| 6 | 1/04/16 | Anurag | Pass | High | No defect |  | Login working properly. |
| 7. | 1/04/16 | Anurag | Pass | High | No defect |  | New student, Faculty and course are created. |
| 8. | 2/04/16 | Mahendra | Pass | Medium | No defect |  | Editing student, faculty working properly. |
| 9 | 3/04/16 | Abhinav | Fail | High | Course edit not working |  | In database – course name is not changed. |

*[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? | Comments |
| 1 | 1/04/16 | Abhinav | Fail | low | No drop downs. |  | Difficult to remember ID’s always in assigning. |
| 2 | 1/04/16 | Rishabh | Fail | Low | fixed timer format only |  | No custom time format option. Give 10 min+ time button. |
| 3 | 1/04/16 | Mahendra | Fail | medium | Login page layout |  | Not showing who is login |
| 4 | 1/04/16 | Anurag | Fail | Low | Redundant data. Exam written twice. UI not good. |  | May be a typo. |
| 5 | 1/04/16 | Abhinav | Fail | medium | Poor UI while creating exam. |  | Questions and options not being shown properly. |
| 6 | 1/04/16 | Rishabh | Fail | medium | Question not shown if we don’t click on it |  | Bit confusing for person giving exam for first time. First question should open. |
| 7 | 1/04/16 | Abhinav | Fail | High | No notifications for errors, confirmation, message. |  | Confusing for the user. He is not getting what is happening. |
| 8 | 2/04/16 | Anurag | Fail | Medium | Doesn’t show questions & their answers in view performance. |  | Answer key not available to student. Student not able to judge his exam. |
| 9 | 2/04/16 | Mahendra | Fail | Low | Name of student not shown on student home page. |  | Student name looks much better than only Student. |

*[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 |
| 1 | 2/04/16 | Abhinav | Pass | Medium | Stress |  | Large no. of users access |
| 2 | 2/04/16 | Abhinav | Pass | Medium | Scalability |  | Can be Scaled to large no of users |
| 3 | 2/04/16 | Abhinav | Pass | Medium | Load |  | Handle large database |
| 4 | 2/04/16 | Mahendra | Pass | Medium | Endurance |  | Can work for long time |

*[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 | Comments |
| 1 | 3/04/16 | Rishabh | Pass | High | Exam can be submitted only once |  |  |
| 2 | 3/04/16 | Anurag | Fail | High | Timer reset when going back & forth or login by opening new tab while giving exam |  | Unfair. |
| 3 | 3/04/16 | Rishabh | Fail | Low | Pressing back button when logged in open login page instead of home page |  | A session variable be used to remove this. |
| 4 | 3/04/16 | Abhinav | Fail | High | clicking make exam & pressing back button creates an exam |  | Blank exam is created. |
| 5 | 3/04/16 | Mahendra | Fail | High | Faculty cant edit/see exam once made |  | Should have that option |
| 6 | 3/04/16 | Mahendra | Fail | Medium | Term LDAP id used while creating student instead of username and vice versa. |  | Term should be consistent everywhere |
| 7 | 3/04/16 | Abhinav | Fail | High | Scripts can be run |  | Cross Site Request Forgery is possible. |
| 8 | 3/04/16 | Anurag | Pass | High | Exam can be submitted only once |  |  |

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

# 5.0 Variances

# Following variances occurred :

# 1. Only Limited amount of data was considered for Load and Stress.

# 2. Only limited users were handled simultaneously through single machine.

# 3. Modules were checked through single session of overall system program.

# 4. Domain testing was not possible in this project.

# 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

1. Very poor UI. No message / Error/ notification. Have to remember everything. option of list be provided.
2. Timer in exam is not working properly. Use global time instead of javascript function.

3. If course is deleted, also delete it from the faculty course field. Or Better use associations. Data redundancy is occurring by copying same data again.

4. For linking the student to course and course to faculty, a better design be used. One student must register all the courses at once and same with faculty.

5. Practically to make the admin db on the remote server is not appropriate. It should be made with the app.

6. Encrypted password be used for storing in database.

7. CSRF token be used to not allow script running or restrict number of attempts to 10.

8. Also make faculty see the result of the students who gave the exam made by him/her.

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** |
| *Objective Exam Management System* | *1.0* | *First set of testing after first phase of development of software according to SRS and Clients expectations* |

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** |
| *Stress* | The capability of a system, network, or process to handle a growing amount of work |
| *Load* | To understand the behavior of the application under a specific expected load. |
| *Endurance* | Behaviour of the system when a significant load extended over a significant period of time |