**CAMPUSKIOSK TESTING REPORT**

**APPLICATION OVERVIEW**

CampusKiosk is a web application that handles various academic and non-academic activities of a College/Academic Institute. The system can be accessed by every students/faculties/employees of the institution through internet connected computers or internet enabled mobile devices with the aid of his username and password. Every user will have a customized home page with his/her profile management facilities.

Through links that displays in the home page the user can access different options of the website assigned to him. Though the system allows access to every one there is a significant security risk involved in this project. To tackle this problem we have a modular structure in the proposed system and a complete isolation of the financial and administrative modules from the public portal.

Web services will interact to the financial and administrative modules to fetch necessary information to display in the public portal. Although a standard password policy will be followed in the designing of the system to prevent the possibilities of malicious activities of itching users.

A self-driven module in the proposed system will accomplish the automated tasks such as Email Alerts, SMS alerts, Notifications to the administrator etc.

**SOFTWARE TESTING**

Software Testing is the Process of exercising a program with the specific intent of finding errors prior to delivery to the end user

**PURPOSE OF TESTING**

The aim of the testing process is to identify all defects existing in a software product.  However for most practical systems, even after satisfactorily carrying out the testing phase, it is not possible to guarantee that the software is error free.  This is because of the fact that the input data domain of most software products is very large.

It is not practical to test the software exhaustively with respect to each value that the input data may assume. Thus testing provides a practical way of reducing defects in a system and increasing the users’ confidence in a developed system.

  CampusKiosk serves a very important purpose for an educational institution. It manages all the academic and non-academic and with all important data available on the server. So, it is very important to test the application thoroughly and make sure the application does not have any flaws. The focus should be more on the modules making changes to the database as this  may result into inconsistency. This document explains the various activities performed as part of Testing of ‘CampusKiosk’ application.

**TESTING SCOPE**

**IN SCOPE TESTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO.** | **TEST NAME** | **DESCRIPTION** | **EXPECTATION** | **RESULT** |
| 1 | Admin login | With correct login info | Logged in successfully | PASS |
| 2 | Admin login | With incorrect login info | Incorrect input message displayed | PASS |
| 3 | Teacher login | With correct login info | Logged in successfully | PASS |
| 4 | Teacher login | With incorrect login info | Incorrect input message displayed | PASS |
| 5 | Student login | With correct login info | Logged in successfully | PASS |
| 6 | Student login | With incorrect login info | Incorrect input message displayed | PASS |
| 7 | Admin session destroy | Accessing logged in page after logout | Redirected to login page | PASS |
| 8 | Teacher session destroy | Accessing logged in page after logout | Redirected to login page | PASS |
| 9 | Student session destroy | Accessing logged in page after logout | Redirected to login page | PASS |
| 10 | Admin entry | Proper data | Record added | PASS |
| 11 | Admin entry | Form validation test | Error message raised for inconsistent data | PASS |
| 12 | Teacher entry | Proper data | Record added | PASS |
| 13 | Teacher entry | Form validation test | Error message raised for inconsistent data | PASS |
| 14 | Student entry | Proper data | Record added | PASS |
| 15 | Student entry | Form validation test | Error message raised for inconsistent data | PASS |
| 16 | Course entry | Proper data | Record added | PASS |
| 17 | Course entry | Form validation test | Error message raised for inconsistent data | PASS |
| 18 | View students | All | Records displayed | PASS |
| 19 | View students | Based on search parameters | Records displayed | PASS |
| 20 | View teachers | All | Records displayed | PASS |
| 21 | View teachers | Based on search parameters | Records displayed | PASS |
| 22 | View admins | All | Records displayed | PASS |
| 23 | View admins | Based on search parameters | Records displayed | PASS |
| 24 | View Courses | All | Records displayed | PASS |
| 25 | View Courses | Based on search parameters | Records displayed | PASS |
| 26 | Update teacher | Proper data | Record updated | PASS |
| 27 | Update teacher | Form validation test | Error message raised for inconsistent data | PASS |
| 28 | Update student | Proper data | Record updated | PASS |
| 29 | Update student | Form validation test | Error message raised for inconsistent data | PASS |
| 30 | Update admin | Proper data | Record updated | PASS |
| 31 | Update admin | Form validation test | Error message raised for inconsistent data | PASS |
| 32 | Update course | Proper data | Record updated | PASS |
| 33 | Update course | Form validation test | Error message raised for inconsistent data | PASS |
| 34 | Delete teacher | Delete record | Record removed | PASS |
| 35 | Delete student | Delete record | Record removed | PASS |
| 36 | Delete admin | Delete record | Record removed | PASS |
| 37 | Delete course | Delete record | Record removed | PASS |
| 38 | Change password | New password is blank | Error message raised | PASS |
| 39 | Change password | Both passwords do not match | Error message raised | PASS |
| 40 | Change password | Previous password is wrong | Error message raised | PASS |
| 41 | Change password | Password too short | Error message raised | FAIL |
| 42 | Change password | Everything right | Password updated | PASS |
| 43 | Check messages admin | Receive messages | Messages revieved | PASS |
| 44 | Send message admin | Send messages | Message sent | PASS |
| 45 | Check messages teacher | Receive messages | Messages revieved | PASS |
| 46 | send messages teacher | Send messages | Message sent | PASS |
| 47 | Check messages student | Receive messages | Messages revieved | PASS |
| 48 | Send messages student | Send messages | Message sent | PASS |
| 49 | Student personal details | display personal details | Displayed | PASS |
| 50 | Student view attendance | Check student attendance | Displayed | PASS |
| 51 | Student view attendance | Under specified constraints | Displayed | PASS |
| 52 | Teacher personal details | Display personal details | Displayed | PASS |
| 53 | Admin Personal info | Display personal info of the admin | Displayed | PASS |
| 54 | Fee | Deposit Fee | Fee record added | PASS |
| 55 | Fee | Display fee records | Displayed | PASS |
| 56 | Fee | Search fee records | Displayed | PASS |
| 57 | Fee | Remove fee record | Removed | PASS |
| 58 | Classes | Add new class | Added | PASS |
| 59 | Classes | Display all classes | Displayed | PASS |
| 60 | Classes | Search specific classes | Displayed | PASS |
| 61 | Classes | Remove a class | Removed | PASS |
| 62 | Connect a student with a teacher and course | Add a record of student with its course and teacher | Record added | PASS |
| 63 | Display all the student with their courses and teachers | Display all the courses opted by the student along with the teacher | Displayed | PASS |
| 64 | Display specific student with their courses and teachers | Based on specific search term | Displayed | PASS |
| 65 | Personal Details | Display personal info of the student | Displayed | PASS |
| 66 | Personal Details | Edit personal info of the student | Displayed | PASS |
| 67 | Medical Details | Display medical info of the student | Displayed | PASS |
| 68 | Fee Details | Display fee info of the student | Displayed | PASS |
| 69 | Marks uploaded (lab/theory) | Display Marks uploaded (lab/theory) of student | Displayed | PASS |
| 70 | Timetable | Display timetable to student | Displayed | PASS |
| 71 | Attendance | Adding new attendance by teacher | Record Added | PASS |
| 72 | Attendance | Editing attendance by teacher | Record Added | PASS |
| 73 | Marks | Editing marks by teacher | Record Added | PASS |
| 74 | Marks | Adding marks by teacher | Record Added | PASS |
| 75 | SMS | Automatic SMS on pending attendance upload. | Done | PASS |
| 76 | SQL Injection for login | Trying to login with injection query | Invalid password displayed | PASS |

**OUT OF SCOPE**

-Real life Testing ie. Launching the web application for the general users was not done for this application.

**PERFORMANCE**

NO. OF TEST CASES PERFORMED =   76

NO. OF TEST CASES PASSED=  75

NO. OF TEST CASES FAILED=  1

ACCURACY=  99%

**TEST ENVIRONMENT & TOOLS**

Operating system - Ubuntu 14.04 LTS 64 bit

System Specification - 4 GB RAM system with Intel I5 4th generation processor 1.6 GHz

Software bundle - Lamp stack 5.5.03 consisting of mySql for database management, Apache server and PHP

Web browser - Google chrome

**EXIT CRITERIA**

According to exit criteria:-

a) All test cases should be executed.

b) All defects in Critical, Major, Medium severity should be verified and closed.

c) Any open defects in trivial severity – Action plan prepared with expected dates of closure.

**CONCLUSION/SIGN OFF**

As the application does not meet the Exit Criteria – “The application is not suggested to ‘Go Live’ at this point of time."