**TEST PLAN**

Registration System

College of art media and technology

Software engineering

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**Introduction**

The test plan is to describe the scope, approach, resource and schedule of all testing activities of the project Registration System.

The plan identify the items to be tested, the features to be tested, the type of testing to be performed, the resource and schedule required to complete testing and the risk associated with the plan.

**Team Member**

|  |  |
| --- | --- |
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**1 Test Strategy**

**1.1 Scope of Testing**

**1.1.1 Feature to be tested**

All the feature of website Registration System which were defined in software requirement specification are need to be tested.

|  |  |  |
| --- | --- | --- |
| **Module Name** | **Applicable Roles** | **Description** |
| **Login** | Teacher, Student, Admin | **Teacher**,**Student**,**Admin**: can to login to the system by the valid  e-mail and password that they use to register. |
| **Grading** | Teacher | **Teacher**: can grade the students whose enrolled in their course. |
| **Teaching course list** | Teacher | **Teacher**: can see all of their teaching course’s list. |
| **Transcript** | Teacher | **Teacher**: can view course’s GPA and student’s grade of each courses. |
| **Logout** | Teacher, Student, Admin | **Teacher**,**Student**,**Admin**: can logout of the system. |
| **List of enrolled course** | Student | **Student**: can view their enrolled courses. |
| **Delete enrolled course** | Student | **Student**: can remove their enrolled course. |
| **Add course** | Student | **Student**: can enroll the course. |
| **Payment** | Student | **Student**: can view the total amount of their tuition fee. |
| **Create course** | Admin | **Admin**: can create the course. |
| **List of existed course** | Admin | **Admin**: can view all of the existed course. |

**1.1.2 Feature not to be tested**

This feature is not to be tested because it is not included in the software requirement specification.

- User Interfaces

**1.2 Test Type**

**- System Testing**: Conducted on a complete system to evaluate the system’s compliance with its specified requirements.

**1.3 Risk**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team member lack the required skills for website testing. | Do the research to skill up the team members. |
| A lack of cooperation among team member. | Encourage team member to do the communication and inspire them to greater effort. |
| Project schedule is too tight, it’s hard to complete this project on tine. | Set Test Priority for each of the test activity. |

**1.4 Test Logistics**

**1.4.1 Who will test?**

The project will use insource members as the tester.

**1.4.2 When will test occur?**

The tester will start the test execution when the software is available for testing.

**2 Test Objective**

The test objectives are to verify the functionality of website Registration System. The project should focus on testing the Registration System’s operation such as Create the course, Add the course, Show transcript, Grading, etc. to guarantee all these operation can work normally.

**3 Test Criteria**

**3.1 Suspension Criteria**

If the team member report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

**3.2 Exit Criteria**

The criteria that denote a successful completion of the test phase.

- Run rate is mandatory to be 100%

- Pass rate is over 80%

**4.** **Resource Planning**

**4.1 System Resource**

|  |  |  |
| --- | --- | --- |
| **No.** | **Resource** | **Description** |
| **1.** | Katalon | An automated software testing solution. |
| **2.** | Computer | At least 1 computer that can run chrome or firefox. |

**4.2 Human Resource**

|  |  |  |
| --- | --- | --- |
| **No.** | **Member** | **Tasks** |
| **1.** | Tester | Execute the tests, Report the defects. |

**5 Test Environment**

|  |  |
| --- | --- |
| **Infrastructure** | |
| **Operation system** | Windows , OSX |
| **Testing Tools** | Katalon |
| **WebBrowser** | FireFox version 58.0.1, Chrome Version 65.0.3325.181 |
| **Repository** | GitHub |
| **Task Management** | MeisterTask |
| **Humen Effort** | 2 People |

**6 Schedule and Estimation**

**6.1 All project task and estimation**

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| **Perform Test Execution** | Tester | 5hours |
| **Test Report** | Tester | 2hours |
| **Total** |  | 7hours |

**7 Test Deliverables**

-Test plan (This document)

-Test Script

-Test data

-Test Report