TEST PLAN

ONLINE COURSES IN COMPUTER SCIENCE, COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

This document provides an overall review on the functionalities of the Project, Project test scope, test strategies, used test data description and detected defects.

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Product Version History

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# INTRODUCTION

This test plan is prepared with the intention of outlining basic requirements and operations expected to test the online course website. The plan specifies project functionalities along with corresponding testing types employed on each functionality. Moreover, members responsible for each task, necesssary resources and risk detection and prevention startegies are also included within the document.

## Test Scope

The test scope specifies which functionalities are required to be tested and which ones are to be exempted. All functions under adminstartor and user are to be tested.

### Adminstrator related moduels

|  |  |  |
| --- | --- | --- |
| Adminstrator | Module-Name | Module-Description |
|  | Login | Adminstartor may access the website with valid credentials. |
|  | Add New Courses | Adminstartor is able toadd new courses into course list. |
|  | Delete courses | Adminstrator is able to delete courses fromcourse lists |
|  | Edit Courses | Administrator is able to edit the title and content of existing courses. |
|  | Announce | Adminstrator is able to upload new announcements |
|  | Log and report | Adminstrator records failure cases if there are any from user comments. |

### Guest/Learner Module

|  |  |  |
| --- | --- | --- |
| Guest /Learner | Module-Name | Module-Description |
|  | Register | New user registers for course |
|  | Verify | New user verifies OTP password sent through email |
|  | Login | Registered guest and learner Logs in |
|  | Profile Photo | New user may upload photos and existing learner may change profile photo. Only .jpg and size < 4kb |
|  | View courses | Learners are able to see courses |
|  | Save course | Learners are able to save course materials to their computer |
|  | Rate | Learners rate the course (1-5) |
|  | Comment | Learners provide comments about a specific course |
|  | Test me | Learners may solve questions |
|  | Submit | After solving questions,learners can submit answers for evaluation |

### Features that are exempted from testing

The following features will not be tested.

1. Response time:
2. Cookie management:
3. Browser Compatibility Test:

## Test Types

Unit testing, integration, system testing and user acceptance tests are the most fundamental tests that are required to verify and validate the online course website with regard to the specifications.

## Possible Risks and Mitigation

|  |  |
| --- | --- |
| Risks | Mitigation |
| İnsufficient test data | Use test data generation tools |
| Limited resources and time | Consider upto date test automation tools |
| Limited skill | Trainings and conferences |

## Test execution

In order to accomplish all test types specified, there are requirements that a test engineer will require. These are:

1. Recieve program build from developer
2. Prepare the tesing environment
3. Form competent testing team
4. Perform smoke and sanity test

# TEST OBJECTIVES

The primary objective of testing is to validate and verify the online course website. That is, after the testing execution, the results will assist the testing team to determine if the Project is designed and implemented according to the requirement specification or not.

# Test completion criteria

This criteria determines when to stop testing.

## Suspension Criteria

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

## Exit Criteria

Specifies the criteria that denote a successful completion of a test phase

- Run rate is mandatory to be 100% unless a clear reason is given.

- Pass rate is 80%, achieving the pass rate is mandatory.

# 4. RESOURCE PLANNING