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.

### Administrator related moduels

|  |  |  |
| --- | --- | --- |
| Administrator | Module-Name | Module-Description |
|  | Login | Administrator may redirect to the login page. |
|  | /secret | Administrator is able to access /secret page. |
|  | Contact | Administrator is able to write their email to contact, and write their problem. |
|  | username | Administrator may enter own credentials corresponding to mysql server data. |
|  | password | Administrator may enter own credentials corresponding to mysql server data. |
|  | Login Button | Administrator may log in with own credentials corresponding to mysql server data. |

### Guest/Learner Module

|  |  |  |
| --- | --- | --- |
| Guest /Learner | Module-Name | Module-Description |
|  | Home page | Guest can access to all blocks. |
|  | /secret | Guest is not be able to access /secret page. |
|  | Login | Registered guest and learner can’t Login. |
|  | username | Guest can’t enter own credentials corresponding to mysql server data. |
|  | password | Guest can’t enter own credentials corresponding to mysql server data. |
|  | Login Button | Guest can’t log in with own credentials corresponding to mysql server data. |
|  | Right & left button | Guest can swipe right and left between blocks. |
|  | Blocks | Guest can redirected to the detailed information page of the blocks by clicking on. |
|  | About us | Guest can get information about us. |
|  | Contact | Guest can contact us with their email, name and their problem. |
|  | Send message | Guest can send the information that they written into MySQL server. |
|  | Social media | Guest can access to our social media (facebook, LinkedIn, etc.) |

### 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