CORDOVA PUBLIC COLLEGE

COLLEGE OF COMPUTER STUDIES

**Software Testing Development**

*for*

Campus Communication Web Platform

Documentation for Capstone Project

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# **1. INTRODUCTION**

## Purpose

The purpose of this documentation is to provide insight and context of how Campus communication Web Platform is being tested and to understand the primary objectives and intentions behind the project.

## Scope

The scope of testing for the Campus Communication Web Platform is to evaluate its functionalities, performance and usability, the scope provide clear overview of what part is being tested, helping the involve people of this project understanding and objectives.

## Definitions and acronym

|  |  |
| --- | --- |
| **Name/Acronym** | **Meaning/Definition** |
| CCWP | Campus Communication Web Platform |
| SDD | Software Design Document |
| UI | User Interface |

# **Test Plan**

## Overview

Test plan for this project is crucial step to ensure that the testing phase is being plan, implemented, organized and effective,

## Purpose

This document is to figure the objectives and strategies to ensure that the testing phase meets its criteria and provide positive result.

## Scope

The scope of this document is to include core features and compatibility to its user, it is provided what is not in scope to set boundaries of the testing phase.

## Objectives

The main objectives of the test plan are:

* Ensure Functionality
* Web and mobile compatibility
* Evaluation of performance
* Usability
* Validate integration

## Test Strategy

This is the testing approach to achieve the testing purpose of the system.

* **Module Testing**
* Identify and isolate individual modules within the Campus Communication Web Platform. Common modules may include:
* Messaging module
* User profiles module
* Notification’s module
* **Integration Testing**
* Continuously learn from integration testing results to improve testing strategies, identify patterns of issues, and refine the testing approach.
* Ensure that the integrated platform works consistently across different browsers and devices, taking into account responsive design and user experience.
* Foster collaboration between development and testing teams to address integration issues promptly.
* -Communicate effectively to resolve any discrepancies in expectations or functionality.

## Testing Approach

The testing approach include both manual and automated testing to ensure the purpose of the system.

* Manual Testing
* Each function is being tested
* Testing the usability
* Test the UI interaction
* Automated Testing
* Regression testing – test every change to make sure no new bugs introduce
* Load Testing – making multiple users to test its computing power

## Test Data

Testing data will be produce to know the before and after performance of the project, it includes test reports and defect reports

# **Test Case Specification**

Test Case Specification

## Purpose

By providing specific inputs to the system and evaluating its responses under various scenarios, test data ensures that the web platform meets its specified requirements, operates reliably, and delivers a positive user experience. It is an integral component in the quality assurance process, contributing to the successful development and deployment of the Campus Communication Web Platform.

## Outline

Module Testing

### Log in

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Empty Fields | Please fill out this field | Pass |
| Correct Username/ Wrong Password | Invalid username or Password | Pass |
| Wrong username/ Correct Password | Invalid username or Password | pass |
| Correct Username & Correct Password | Redirected to Homepage | pass |

### Registration

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Empty Fields | Please fill out this field | Pass |
| All Fields are filled out | Success registration and redirect to Log in page | Pass |

### Home page

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Button(profile) | Redirect to profile page | Pass |
| Button(department) | Redirect to department page | Pass |
| Button (message) | Redirect to chat room | Pass |
| Button (school map) | Redirect to school map page | Pass |
| Button (log out) | Will exit to log in | pass |

### Profile page

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Empty Fields | Please fill out this field | Pass |
| B Button(update) | Your request is pending | Pass |
| All fields are filled out | Your request is pending | Pass |
| Request is approved | Show profile information | Pass |

### Department

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Button(profile) | Redirect to profile page | Pass |
| Button(newsfeed) | Redirect to Home page | Pass |
| Button (message) | Redirect to chat room | Pass |
| Button (school map) | Redirect to school map page | Pass |

### Message

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
| Empty field | No message is being sent | Pass |
| Empty field but have files | No message is being | pass |
| Filled is not empty but no files | Message is sent | pass |
| Fields are filled out | Message is sent | Pass |
| Button (send) | Message is sent | Pass |

### Notifications

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### School Map

|  |  |  |
| --- | --- | --- |
| Testing | Result | Pass/Fail |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# **Test Design Specification**

## Purpose

The purpose of Test Design Specification is to identify what features are to be tested. To show how the features are being tested and determine the error of the system features and it defines the scope of testing, objectives, test cases, and scenarios. It includes details about test data, the testing environment, methods, and techniques employed.

## Outline

### Registration module

1. Registration for user
2. Text Fields - full name
3. Text Fields - username
4. Text Fields – password
5. Select - User type
6. Select – Department type
7. Button – Register

### Log in module

1. Log in
2. Text Fields – username
3. Text Fields – password
4. Button – Log in

### Home/Department Module

1. Home and Department
2. Button – create post
3. Button – for comments
4. Button – for reports
5. Button – create Announcement
6. Button – create events
7. Button – for departments
8. Button – for profile
9. Button – for messages
10. Button – school map
11. Button – logout

### Post Module

1. Post
2. Button – for adding files
3. Text fields – for post description
4. Button – for creating post
5. Button – for deleting post
6. Button – for editing post

### Comment Module

1. Comment
2. Text fields – for comment
3. Button – for sending comment
4. Button – for editing comment
5. Button – for deleting comment

### Announcement Module

1. Announcement
2. Text fields – for Announcement
3. Button – for sending Announcement
4. Button – for editing Announcement
5. Button – for deleting Announcement

### Events Module

1. Events
2. Text fields – for Events
3. Text fields – for date events
4. Button – for sending Events

### Profile Module

1. Profile
2. Text fields – School Id
3. Text fields – Full name
4. Text fields – Email
5. Text fields – Address
6. Number fields – Number
7. Text Fields – Year and Section
8. Text Fields – Academic Year
9. Text fields – for role in school
10. Text fields – Department type
11. Input files – For Profile Picture
12. Input files – Cover Photo

### School Map

1. School map
2. Buttons – For each room

### Messages

1. Chat room
2. Text Fields – Message description
3. Input files – Adding files
4. Button – sending message
5. Button – for choosing user