

6.0 Outputs of Micro-Projects

- Functionality Requirement Specification

Student Module:

First, the student has to register. Only registered Student will log in by his username and password. In the dashboard all the contents of the student's feedback forms will be displayed. There would be an option student feedback in this there would be questions related to how students can make the teaching quality more good. Student can tell his likes and dislikes about the teachers by attending every questions.

Faculty Module:

Here faculty will first login in this section. The faculty will enter their user name and password if the faculties do not have an account they have to sign up in order to create an account. As the details are filled the faculty dashboard appears in which they can fill self appraisal, peer appraisal. The faculty should firstly fill the self appraisal in which they have to rate themselves on some criteria. The peer faculty has to click onto the peer appraisal in order to fill the form as they click onto peer appraisal.

Principal/H.O.D's Module:

HOD user cannot sign up for the feedback system since she is the only one to access the feature the login is pre-defined in code itself. Once the HOD logs into her portal she can perform various tasks like Giving authority appraisals also reviewing form no one which is duly filled by faculty after verifying that only then the HOD can further proceed with the summary form. In summary, the total of all marks will be calculated and according to it percentage is calculated also the grades are calculated on this percentage basis also she can take print out of the summary list and keep a backup of it.

6.0.2- TEST PLAN

Prepare Test Plan for Online Feedback System¹

Introduction

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Online Feedback System.

The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

1.1 Scope

1.1.1 In Scope

All the feature of Online Feedback System which were defined in software requirement specs are need to be tested

Module Name	Applicable Roles	Description
Registration	Students, Faculty, HOD, Principal	Students: A student can register into the college feedback system by entering his Name, then Password again confirm password field, as well as Email ID and Mobile No. will be required here. Either he/she can register or login if he/she has an account already over the system
Login	Students, Admin	Students: Only the students who are admitted in that college will be provided with a specific username and password. He/She can login the college online feedback system by entering correct username and password allocated to them. If He/She don't have account He/She can register using registration process available in that feedback system and then login to the system. Admin: Admin can login in the Feedback system to see whether how many students have given their feedback and prepare a note on their feedbacks.
Feedback	Student	Student: Here in this Feedback module there are number of Feedback partitions. Such as :- 1. Course Feedback, here a student can give a feedback for each subject. 2. Staff feedback, here a student can give feedback on staff. 3. Event Feedback, here a student can give feedback related to all events which are being carried out in the college. 4. College Feedback, here a student can give feedback related to college buildings, water purifiers, washrooms, Office, etc.

		<p>5. Transport Feedback, here a student can give feedback related to transport system of students such as Bus transport, etc.</p> <p>6. Canteen Feedback, here a student can give feedback related to canteen, items sold in canteen, their costing more or less, etc.</p>
Logout	Students,Admin	<p>Students: Students can logout after giving his feedback on the college online feedback system using Logout option available there.</p> <p>Admin:Admin can logout after he has collected feedback of students.</p>

1.1.2 Out of Scope

These features are not be tested because they are not included in the software requirement specs

- User Interfaces
- Hardware Interfaces
- Software Interfaces
- Database logical
- Communications Interfaces
- Website Security and Performance

1.2 Quality Objective

The test objectives are to **verify** the Functionality of Online Feedback System the project should focus on testing the **Feedback operation** to **guarantee** all these operation can work **normally** in real business environment.

1.3 Roles and Responsibilities

The project should use **outsourcing** members as the tester to save the project cost.

No.	Member	Tasks
1.	Test	Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects. Outsourced members
2.	Developer in Test	Implement the test cases, test program, test suite etc.
3.	Test Administrator	Builds up and ensures test environment and assets are managed and maintained Support Tester to use the test environment for test execution
4.	SQA members	Take in charge of quality assurance Check to confirm whether the testing process is meeting specified requirements

2 Test Methodology

2.1 Test Levels

In the project Online Feedback System, there're 3 types of testing should be conducted.

- **Integration** Testing (Individual software modules are combined and tested as a group)
- **System** Testing: Conducted on a **complete, integrated** system to evaluate the system's compliance with its specified requirements
- **API testing:** Test all the APIs create for the software under tested

2.2 Suspension Criteria and Resumption Requirements

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

2.3 Test Completeness

- 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**

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2.7 Project task and estimation and schedule

Task	Members	Estimate effort
Create the test specification	Test Designer	12man-hour
Perform Test Execution	Tester, Test Administrator	10man-hour
Test Report	Tester	6man-hour
Total		28 man-hour

3) Test Deliverables

Test deliverables are provided as below

Before testing phase

- Test plans document.
- Test cases document.

Test Design specifications.

3) Test Environment

It mentions the minimum **hardware** requirements that will be used to test the Application. Following **software's** are required in addition to client-specific software.

- Windows 8 and above
- Office 2013 and above

4) Terms/Acronyms

- Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
API	Application Program Interface
AUT	Application Under Test

6.0.3

- TEST CASE DESIGN

A **test case** is a specification of the inputs, execution conditions, testing procedure, and expected results that define a single test to be executed to achieve a particular software testing objective, such as to exercise a particular program path or to verify compliance with a specific requirement. Test cases underlie testing that is methodical rather than haphazard. A battery of test cases can be built to produce the desired coverage of the software being tested. Formally defined test cases allow the same tests to be run repeatedly against successive versions of the software, allowing for effective and consistent regression testing.

Typical Written Test Case Format:-

A test case is usually a single step, or occasionally a sequence of steps, to test the correct behavior/functionality, features of an application. An expected result or expected outcome is usually given.

Additional information that may be included:

- Test Scenario ID
- Test Scenario
- Test Case ID
- Test Case Description
- Test Steps
- Pre-Conditions
- Test Data
- Post Conditions
- Expected Result
- Actual Result
- Status
- Executed By
- Comments if Any

Larger test cases may also contain prerequisite states or steps, and descriptions. A written test case should also contain a place for the actual result.

These steps can be stored in a word processor document, spreadsheet, database or other common repository.

In a database system, you may also be able to see past test results and who generated the results and the system configuration used to generate those results. These past results would usually be stored in a separate table.

Test suites often also contain

- Test summary
- Configuration.

6.0.4

- DEFECT REPORT

Application Test Scenario

In our Online Feedback System there is a <Transport Feedback Issue= Module. In that module user enters all details in that form which are required. When user clicks on submit button it displays an message that the <Form should be filled completely=, even if the form is filled correctly. Now, we should report this bug.

Now here is how a bug is reported on the basis of above scenario:

Bug Name: Application crash on clicking the Submit button after filling Transport Feedback form.

Bug ID: BG_LMS_001

Area Path: Feedback Module.

Build Number: Version Number 9.0.0.1.2

Severity: HIGH

Priority: HIGH (High/Medium/Low)

Assigned to: Ms.S.B.Kinkar

Created By: Test Engineer 1

Created On: 22th Novmember 2023.

Reason: Defect

Status: Active

Environment: Windows 2003/SQL Server 2005.

Description:

Application crash on clicking the Submit button after filling Transport Feedback form.Steps to reproduce:

1. Login to the application.
2. Click on Feedback Option.
3. Enter the Transport Feedback option.
4. Fill the details correctly and click on Submit button.
5. Seen an error message.
6. See the attached logs for more information.
7. See the attached screenshots of error the error message for reference.

Expected: On clicking the <Submit= button user should be able to view a message <TransportFeedback Form Registered Successfully.=

6.0.5

- SUMMARY

In today's world where education has become a basic necessity for every child/adult so to ensure that proper education is being delivered or not there is only one way >by taking feedback? so as to reduce the manpower, the software is built which automatically takes the feedback turn by turn so as to not skip any of the member.

- The number of test cases executed- 18
- The numbers of test cases pass - 17
- The numbers of test cases fail - 1
- Pass percentage – 94.45 %
- Fail percentage – 5.55%
- Comments - We have prepared defect report of one defect and assigned it to developer so as to resolve it. Other modules are tested and they don't have any issue.