



STE Micro Project Report PDF

Computer (Jai Hind College)



Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara

Micro-Project Report

On

“ONLINE FEEDBACK SYSTEM.”

Presented By

Roll No.	Name
24	Pawar Akanksha Janardhan
25	Pawar Disha Sagar
28	Pharande Akshada Arjun
35	Shinde Shrutika Pravin

Program: **Diploma in Computer Engineering**

Class: **Third Year (Semester 5)**

Course: **Software Testing (Subject Code: 22518)**

Guided By

Prof. Gujar A. N.

Computer Engineering Department

[2019-20]



Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara

C E R T I F I C A T E

This is to certify that

Miss. Pawar Akanksha Janardhan

Miss. Pawar Disha Sagar

Miss. Pharande Akshada Arjun

Miss. Shinde Shrutika Pravin

Of **Third Year (Semester 5)** have successfully completed the Micro-Project work entitled **“Online Feedback System”** in the **Software Testing** of Program **Diploma in Computer Engineering** of Maharashtra State of Technical Education, Mumbai, Maharashtra State.

Prof. Gujar A. N.
Guide

Prof. Nalawade A. S.
Head of Department

Prof. Sheikh K. S.
Principal

Date:

Place: Satara.

ACKNOWLEDGEMENT

It is great pleasure for us to acknowledge the assistance & contribution of the number of individuals who helped us in presenting the Project “**Online Feedback System**”. We have successfully completed our project with the handful support of Staff, Project Partners, External Resources, etc. We acknowledge all of them & them for their support.

Special thanks to project guide **Mr. Gujar A. N.** who gave us the valuable guidelines for the seminar & project work. We whole heartedly thank all the staff members & every possible person who possibly helped us in this project.

We would like to give away gratitude to **Mr. Nalawade A. S.**, Head of Computer Engg. Department for prior support in terms of morality, technical aspects & relative guidance required for the ‘**Online Feedback System**’ which helped us get better grip & quality in every aspect of project .

Our sincere thanks to **Prof. Sheikh K. S.**, Principal, Karmaveer Bhaurao Patil Polytechnic, Satara, for providing us an opportunity to present & express the ideas of our project.

Thanking You ,

Miss. Pawar Akanksha Janardhan

Miss. Pawar Disha Sagar

Miss. PharandeAkshada Arjun

Miss. Shinde Shrutika Pravin

Undertaking by Students

We will preserve micro-project and the report in our custody till end of completion of our program. We assure that we will produce the same without fail whenever we or anybody from our group will be asked to do so.

Sr. No.	Roll No.	Name Of Student	Mobile No.	Signature
1	24	Pawar Akanksha Janardhan	7020650559	
2	25	Pawar Disha Sagar	7972634187	
3	28	PharandeAkshada Pravin	7588401690	
4	35	Shinde Shrutika Pravin	9834414923	

Part A – Plan

Format for Micro-Project Proposal

For 5th & 6th Semester

“Online Feedback System”

1.0 Rationale:(Importance Of The Project, In About 200 To 400Words)

In this project we are going to test an Online Feedback System using Software Testing. Online feedback system is web based system which provides a way for colleges to allow students to give feedback for staff to improve their teaching. Students are required to give feedback using one standard feedback form. In our project, the security is also maintained as result of feedback is only visible to authentic user. This project also includes time portal. This system helps teachers to improve the performance by analyzing the feedback given by students. Above features will be tested using different Software testing techniques.

2.0 Literature Review :(Existing status, Knowledge required to complete chosen task in about 200 to 400 words.)

- a) We require knowledge of various software testing techniques to test an application.
- b) We must know how to prepare Functionality Requirement Specification document, as it contains all the functionality related to the software.
- c) We require knowledge of preparing the Test Plan.
- d) We must know how to prepare test cases for testing the specified software.
- e) We must have the knowledge of preparing the Defect Report .
- f) We should at last provide conclusion related to the project and Application.

3.0 Proposed Methodology :(Procedure in brief that will be followed to do micro-project in about 200 to 400 words.)

- a) Firstly we will decide which Software Testing Techniques are required to test the Online Feedback System application.
- b) Then we will prepare Functionality Requirement Specification Document for Online Feedback System Application.
- c) We will then prepare Test Plan for Online Feedback System.
- d) Then we will design Test Cases for Online Feedback System, to check the functionality of software.
- e) After that we will prepare a Defect Report if any serious bug or defect is encountered in the software.
- f) At last we will prepare a Summary Report and provide a proper conclusion.

4.0 Action Plan (Sequence and Time Required For Major Activities for 8 Weeks)

Sr. No.	Details of activity	Planned Start date	Planned Finish date	Name of responsible team members
1	Decide the subject of project	30/07/2019	16/08/2019	PawarAakanksha Janardhan Pawar Disha Sagar Pharande Akshada Arjun Shinde Shrutika Pravin
2	Collecting information of project	20/08/2019	02/09/2019	PawarAakanksha Janardhan PawarDisha Sagar Pharande Akshada Arjun Shinde Shrutika Pravin
3	Creating report	04/09/2019	14/09/2019	PawarAakankshaJanardhan PawarDisha Sagar Pharande Akshada Arjun Shinde Shrutika Pravin

5.0 Resources Required (Major Resources Such As Raw Materials, Some Machining Facility, AndSoftware Etc.)

Sr. No.	Name of resource / material	Specification	Quantity	Remarks
1	Computer system	Intel(R) Core (TM) i31450 CPU32 bit operating system	1	Used
2	Operating System	Windows	—	Used
3	Software	Microsoft Office - Excel 2007, Word 2007	—	Used

Part B – Outcome after Execution

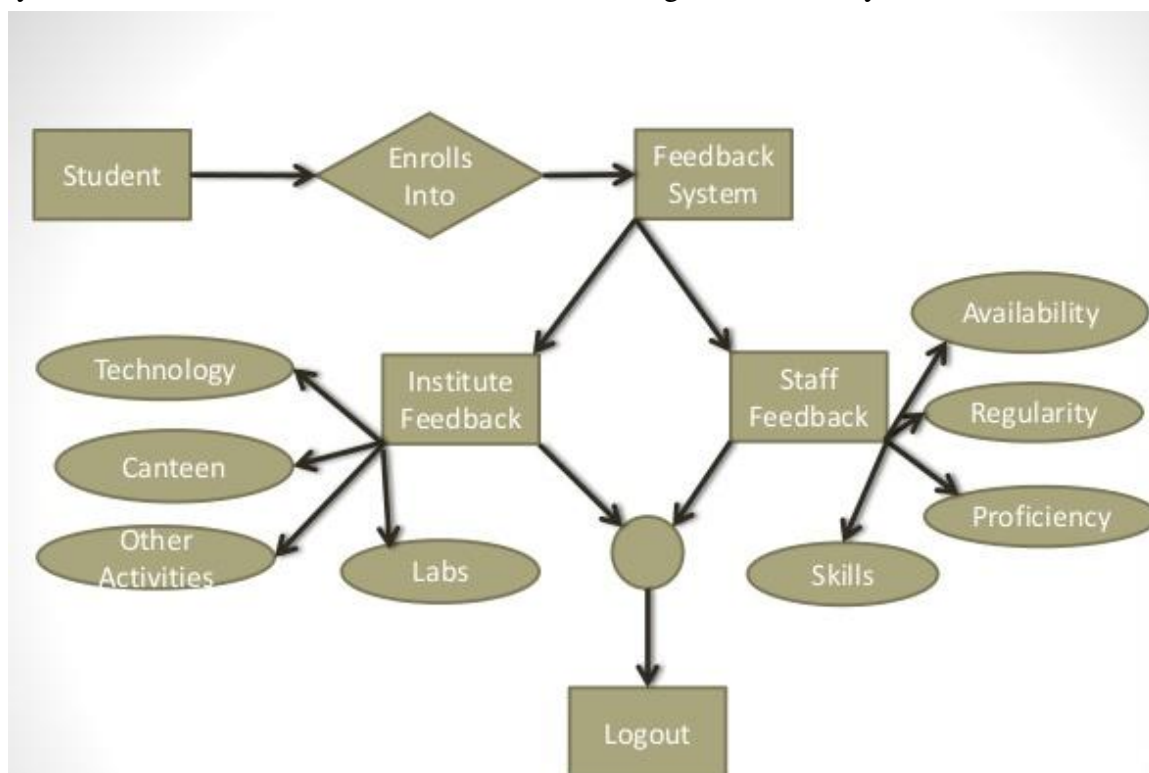
Format for Micro-Project Report (About 8-15 Pages)

For 5th and 6th Semester

“Online Feedback System”

1.0 Rationale:(Importance of project in about 100 to 200 words. This is modified version of earlier one written after work.)

In this project we are going to test an Online Feedback System using Software Testing. Online feedback system is web based system which provides a way for colleges to allow students to give feedback for staff online to improve their teaching. Students are required to give feedback using one standard feedback form. In our project, the security is also maintained by the result of feedback is only visible to the authentic user. This project also includes a time portal. This system helps teachers to improve the performance by analyzing the feedback given by students. Above features will be tested using Software testing different techniques in this project. This system is not time bound due to which students will give the monthly feedback.



In this project the Online Feedback System will be tested using different parameters. Firstly SRS(Software Requirement Specification) will be created i.e. it contains all the functional and non-functional requirements. It will be easier using SRS to test the application and find bugs. A Test Plan with standard format will be created for this application. Test Cases will be prepared to test the functionality of the software. And at last the Summary Report with a conclusion.

2.0 Course Outcome Integrated

- a) Apply various software testing methods.
- b) Prepare test cases for different types and levels of testing.
- c) Prepare test plans and defect bug reports.
- d) **Discipline knowledge:** Apply computer engineering knowledge to solve broad-based computer engineering related problems.
- e) **Engineering tools:** Apply appropriate computer engineering related techniques/tools with an understanding of the limitations.
- f) **Communication:** Proper communication takes place between students and faculty.

3.0 Literature Review(if additional literature review done, you may add in about 200 to 400 words.)

- a) Firstly we will decide which Software Testing Techniques are required to test the Online Feedback System application.
- b) Then we will prepare Functionality Requirement Specification Document for Online Feedback System Application.
- c) We will then prepare Test Plan for Online Feedback System.
- d) Then we will design Test Cases for Online Feedback System, to check the functionality of software.
- e) After that we will prepare a Defect Report if any serious bug or defect is encountered in the software.
- f) At last we will prepare a Summary Report and provide a proper conclusion.

4.0 Actual Procedure Followed (Write step wise the work was done, including which team member did what work and how the data was analysed (if any).)

- Introduction to Software Testing and application of Online Feedback System
- Prepared Functionality Requirement Specification documents of Online Feedback System.
- Prepared Test Plan for Online Feedback System.
- Prepared & executed Test Cases for Online Feedback System.
- Prepared Defect Report of Online Feedback System.
- Prepared summary report.

5.0 Resources Required (Major Resources Such As Raw Materials, Some Machining Facility, And Software Etc.)

Sr. No.	Name of resource / material	Specification	Quantity	Remarks
1	Computer system	Intel(R) Core (TM) i31450 CPU32 bit operating system	1	Used
2	Operating System	Windows	–	Used
3	Software	Microsoft Office - Excel 2007, Word 2007	–	Used

6.0 Outputs of Micro-Projects

(Drawings of prototype, drawings of survey, presentation of collected data, findings etc.)

6.0.1 - 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 System

1 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 feature 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 **outsourc** 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
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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**

2.4 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 documents

- Test Design specifications.

4) 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

5) 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: Pawar.Akanksha.Janardhan

Created By: Pawar.Disha.Sagar

Created On: 22th September 2019.

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 “Transport Feedback 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.

7.0 Skill Developed / learning out of this Micro-Project(in about 150 to 300 words)

This Project is created for improving the testing knowledge of applications.

1. Studying of the different types of testing techniques.
2. Learned how to prepare Test Plan related to that specified application.
3. Learned how to prepare Test Cases to test if the application is working properly or not.
4. Learned about SRS (Software Required Specification) document.
5. Learned about Defect Report and its necessity.
6. Studied advantages and disadvantages of testing and how necessary it is to build a defect free software and user friendly.

Annexure – III

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____ Code: _____

Title of the Micro-Project: _____

Course Outcomes Achieved: _____

Evaluation as per suggested Rubric for Assessment of Micro-Project

(Please tick in appropriate cell for each characteristic)

Sr. No.	Characteristic to be assessed	Poor (Marks 1 -3)	Average (Marks 4 -5)	Good (Marks 6 -8)	Excellent (Marks 9 - 10)
1	Relevance to the course				
2	Literature survey / Information collected				
3	Project Proposal				
4	Completion of target as per project proposal				
5	Analysis of data and representation				
6	Quality of prototype / Model				
7	Report Preparation				
8	Presentation				
9	Defense				

Micro-Project Evaluation Sheet

Seat No.	Process assessment		Product assessment		Total Marks 10
	Part A Project Proposal (2 marks)	Project Methodology (2 marks)	Part B Project Report/Working Model (2 marks)	Individual Presentation /Viva (4 marks)	

Note: Every course teacher is expected to assign marks for group evaluation in first 3 columns and individual evaluation in 4th column for each group of students as per suggested rubrics.

Comments / suggestion about team work / leadership / inter-personal communication (if any):

Any other Comment:

Name and designation of faculty member: _____

Signature: _____

