ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE ,VITA

MSBTE- 0991

FIVTH SEMESTER
(Year: 2023-24)

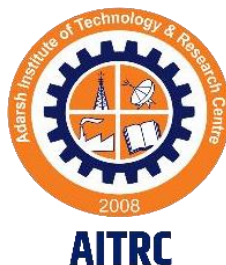## Micro Project

Software Testing (22518)

Title of the Project: Online Feedback System
Branch: Computer Technology (CM5I)

Members of the Group:

Sr. No.	Name of Student	Roll No.
01	Tanishka Suhas Pandharpatte	3113
02	Shubham Dhondiram Mahadik	3114
03	Harsh Mahesh Phase	3115
04	Geetanjli Jotiram Deshmukh	3116

Loknete Hon. HanmantraoPatil Charitable Trust's
Adarsh Institute of Technology & Research Centre Vita,

CERTIFICATE

This is to certify that he micro project report entitled
"Online Feedback System"
Submitted by

Sr. No.	Name of Student	Roll No.
01	Tanishka Suhas Pandharpatte	3113
02	Shubham Dhondiram Mahadik	3114
03	Harsh Mahesh Phase	3115
04	Geetanjli Jotiram Deshmukh	3116

For Fivth Semester of Diploma in Computer Technology of course Software Testing (22518)
for academic year 2023-24 as per MSBTE, Mumbai curriculum of 'I' scheme.

DIPLOMA OFENGINEERING
(Computer Technology)

SUBMITTED TO
MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION MUMBAI
ACADEMIC YEAR 2023-24

Project Guide	H.O.D.	Principal
Ms.S.B.Kinkar	Prof.A.A.Vankudre	Dr.P.S.Patil

MICRO PROJECT
Progress Report / Weekly Report

Title of the Project: Online Feedback System

Course: **STE(22518)**   Program: **Computer Technology (CM5I)**

Week No	Date	Duration in Hrs.	Work / Activity Performed	Sign of the Faculty
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Teacher Evaluation Sheet for Micro Project

Course Title and Code: - Software Testing (22518)

Title of the Project: Online Feedback System

Group No: -4

COs addressed by the Micro Project:

CO a:	Apply various software testing methods.
CO b:	Prepare test cases for different types and levels of testing.
CO c:	Prepare test plan for an application
CO d:	-
CO e:	-
CO f:	-

Marks:-

Roll No.	Name Of Student	Marks for Group Work (06)	Marks obtained by the individual based on viva (04)	Total Marks (10)
3113	Tanishka Suhas Pandharpatte			
3114	Shubham Dhondiram Mahadik			
3115	Harsh Mahesh Phase			
3116	Geetanjli Jotiram Deshmukh			

Name and designation of Faculty Member: **Ms.S.B.Kinkar**

Lecturer (Computer Technology Department)

Signature: _____

ACKNOWLEDGEMENT

I express my sincere gratitude to   **Ms.S.B.Kinkar.**, Department of **Computer Technology**, for **his/**her stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I would like to place on record my deep sense of gratitude to **Prof.A.A.Vankudre**
HOD- Department of **Computer Technology**, for his generous guidance, help and useful suggestions.

I am extremely thankful to Principal **Dr.P.S.Patil** for this motivation and providing me infrastructural facilities to work in, without which this work would not have been possible.

I would like to express my gratitude to all my colleagues for their support, co-operation and fruitful discussions on diverse seminar topics and technical help.

Name of Student	Sign
Tanishka Suhas Pandharpatte	
Shubham Dhondiram Mahadik	
Harsh Mahesh Phase	
Geetanjli Jotiram Deshmukh	

Index

Sr. No.	Content	Page No.
1.0	Rationale	
2.0	Course Outcomes Addressed	
3.0	Literature Review	
4.0	Actual Methodology Followed	
5.0	Actual Resources Used	
6.0	Outputs of the Micro Project	
7.0	Skill Developed / learning out of this Micro Project	
8.0	Applications of this Micro Project	
9.0	Area of Future Improvement	

Title of Micro-Project: Online Feedback System

1.0 Brief 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.

The Student Feedback System is a management information system for education establishments to manage student data. Student Feedback Systems provide capabilities for selecting particular subject for feedback and generate the report automatically, build student details, student-related data needs in a college. An Student Feedback System is an automatic feedback generation system that provides the proper feedback to the teachers as per the categories like always, poor, usually, very often, sometimes. In the existing system students can give feedback about the lecturers by doing manually. By this process student can give feedback in online system without wasting his time in writing. After giving feedback by every student papers are collected by the faculty and calculated the overall grade for each subject and each lecturer.

2.0 Aim of the Micro-Project

The aim is to automate its existing manual system by the help of computerized equipment and full – fledged computer software, fulfilling their requirements,So that their valuable data can be stored for longer period with easy accessing and manipulation of the same. Basically the project describes how to managed for good performance and better services for clients. Introduction: Online student feedback system is the web based feedback collecting system from the students and provides the automatic generation of a feedback which is given by students. We have developed student feedback system to provide feedback in a quick and easy manner to the particular department. We have developed Student Staff Feedback System to provide feedback in an easy and quick manner to the college principal and HOD's

3.0 Intended Course Outcomes

- ❖ Apply various software testing methods.
- ❖ Prepare test cases for different types and levels of testing.
- ❖ Prepare test plan for an application.

4.0 Literature Review

Review :

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 OnlineFeedback 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.

5.0 Proposed Methodology

1) **Knowing the basics of the topic.**

2) **Decide aim of the project and collect the data.**

3) **Prepare project proposal.**

4) **Search Literature reviews.**

5) **Analysis of data.**

6) **Discussion over preparing and correction in booklet and report.**

7) **Converting the content of project in report writing.**

8) **Checking and correction in report writing.**

9) **Rechecking and finalizing report writing.**

10) **Final submission and oral presentation of micro project.**

6.0 Resources Required

Sr. No.	Name of Resource/ Material	Specifications	Quantity	Remark
1	**Computer System**	**i-5**	**1**	
2	**Microsoft Word**	**2010**	**1**	
3	**Internet**	**Any**	**1**	

7.0 Action Plan

Sr. No.	Details of activity	Planned start date	Planned Finish date	Name of Responsible Team Members
1	Project Proposal			**All Members**
2	Data Collection & Analysis			**All Members**
3	Preparation of Prototype/ Model			**All Members**
4	Preparation of Report			**All Members**
5	Presentation & Submission			**All Members**

Title of Micro-Project: Online Feedback System.

1.0 Rationale:

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 gives feedback for staff online to improve their teaching. Students are requires to gives feedback using one standard feedback form. In our project, the security is also maintain by 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 Software testing different techniques in this project.This system is not time bound due to which student will give the monthly feedback.
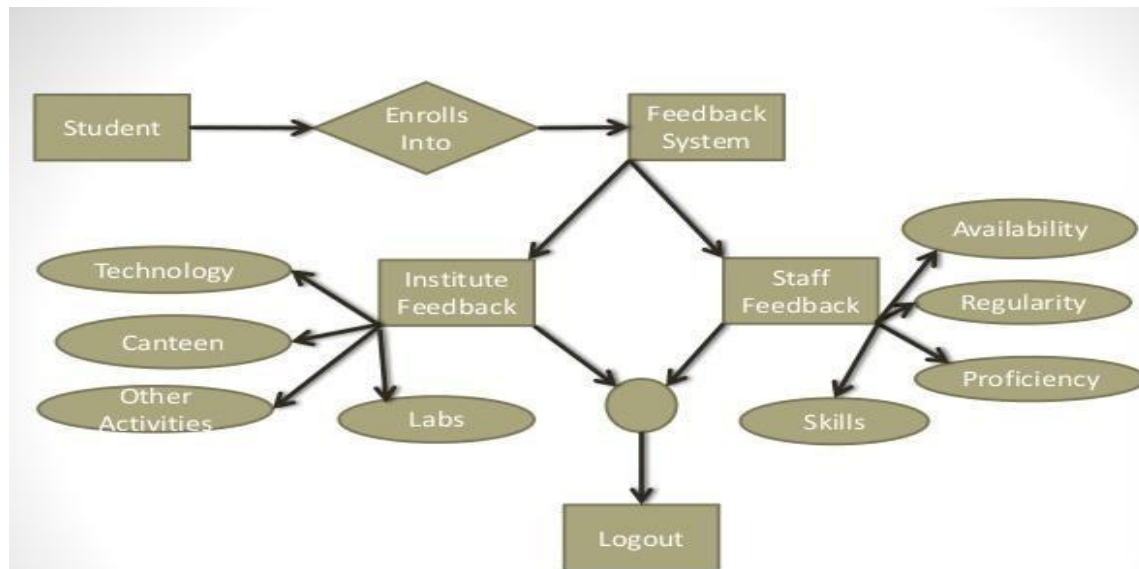
In this project the Online Feedback System will be tested using different parameters. Firstly SRS(Software Requirement Specification) will be created i.e. it contains all the functional and non-functional requirements .It will be easier using SRS to test the application and find bugs. ATest Plan with 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 Outcomes Addressed

   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.

3.0 Literature Review
Review:

   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 OnlineFeedback 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 Methodology Followed:

Member 1): Name: All Members.
Work: Finalize the group & project

Member 2): Name: Tanishka Suhas Pandharpatte

Work: Search information regarding project subject.

Member 3): Name: Shubham Dhondiram Mahadik

Work: Collect information and discuss with group members about proposal.

Prepare proposal and submit to the guide.

Member 4): Name: Harsh Mahesh Phase

Work: Analyze and finalize the information of the project report.

Member 5): Name: Tanishka Suhas Pandharpatte
Work: Write project report

Member 6): Geetanjli Jotiram Deshmukh

Work: Prepare rough sketch and final chart

5.0 Actual Resources Used

Sr. No.	Name of Resource/ Material	Specifications	Quantity	Remark
1	Computer System	i-5	1	
2	Microsoft Word	2010	1	
3	Internet	Any	1	

6.0 Outputs of Micro-Projects

- Functionality RequirementSpecification

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 bean 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 thelogin is pre-defined in code itself. Once the HOD logins 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 testingactivities 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 areneed to bested

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.

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

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 **outsource** 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**

2.4 Test Levels

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

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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 testcase should also contain a place for the actual result.

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

In a database system, you may also be able to see past test results and who generated the resultsand 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 userenters 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
r **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 their lefts only one way >by taking feedback? so as to reduce the manpower, the software is build 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.

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 columnsand individual evaluation in 4th column for each group of students as per suggestedrubrics.

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

_____

_____

_____

_____

Any other Comment:

_____

_____

_____

_____

Name and designation of faculty member: _____

Signature: _____

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

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Any other Comment:

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Name and designation of faculty member: _____

Signature: _____

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____**Code:** _____

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Course Outcomes Achieved:

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