



K. K. Wagh Polytechnic, Nashik.

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DEPARTMENT OF COMPUTER TECHNOLOGY

Proposal for Micro-Project

Academic Year: 2023-24

Course: Software Testing

Semester: 5 Class: TYCM-Lin

Institute Code: 0078

Program: Computer Technology

Course Code: 22518 Scheme: I

Date of Proposal: / / 2023

Title of Micro-Project Prepare Test Cases, Test Plan, Defect Report for A holistic approach to campus recruitment and student profile analysis for placement

Problem Definition:

The problem definition serves as the foundation for creating comprehensive test cases, a robust test plan, and an effective defect report. In the area of test cases, a well-defined problem is crucial for outlining diverse scenarios that the software must undergo to ensure its functionality, performance, and reliability. The test plan, on the other hand, depends on a clear problem definition to establish testing objectives, scope, resources, and schedules, providing a roadmap for the testing process. Simultaneously, the defect report depends on problem definition to accurately document any deviations or malfunctions discovered during testing, facilitating clear communication between the testing team and developers for efficient issue resolution. These three components, intertwined by a common problem definition, collectively contribute to a systematic and thorough quality assurance process.

1.0 Aim of the Micro-Project:

Test cases, Test plan and Defect report for training and placement application will ensure that the software meets the needs of both students and admin, functions reliably and doesn't have critical defects that could impact the placement process. Its part of the quality assurance process to deliver a robust and dependable application.

2.0 Course Outcomes addressed (Cos):

CO504.1: Apply various software testing methods.

CO504.2: Prepare test cases for different types and levels of testing.

CO504.3: Prepare test plan for an application.

CO504.4: Identify bugs to create defect report of given application.

CO504.5: Test software for performance measures using automated testing tools.

3.0 Proposed Methodology:

The methodology used for this micro project is :

1. Test Cases: Develop comprehensive test cases covering diverse user inputs, potential edge cases, and system responses.

2. Test Plan: Outline a systematic testing approach, including unit, integration, and user acceptance testing, to ensure a thorough validation process.

3. Defect Report: Establish a detailed defect reporting system, documenting identified issues with severity levels, and providing clear steps for resolution.

4.0 Action Plan:

Sr. No.	Details of activity	Planned Start date	Planned Finish date	Name of Responsible team members
1	Selection and confirmation of Project Title.	10/08/2023	15/08/2023	All team members
2	Discussion about the project title with the team members.	17/08/2023	26/08/2023	All team members
3	Refer various books for searching of Test cases.	05/09/2023	18/09/2023	Gaidhani Shraddha Bangar Kalyani
4	Preparing & Finalizing softcopy of the Test case Template	20/09/2023	28/09/2023	Salunke Ashwini Bangar Kalyani
5	Preparing Proposal and Report.	06/10/2023	08/10/2023	Gaidhani Shraddha Dhakane Aditya
6	Submission of Micro-Project and Viva.	20/10/2023	21/10/2023	All team members

5.0 Resources Required:

Sr. No.	Name of Resource/material	Specifications	Qty	Remarks
1	Laptop	AMD Ryzen 3 3250U with Radeon Graphics 2.60 GHz, RAM 8GB, SSD-1TB	01	For project work
2	Other software	Microsoft Word 2016	01	For documentation
3	Reference book:	A Craftsman's Approach" - Paul C. Jorgensen	01	For testing algorithms & test cases.
4	Websites	https://ieeexplore.ieee.org/document/8769571	01	For referring sample projects.

6.0 Name of Team Members:

Enrolment No.	Roll No.	Name of Students	Signature
2100780078	08	Bangar Kalyani Hemant	
2100780086	15	Dhakane Aditya Arun	
2100780090	19	Gaidhani Shraddha Punjaram	
2100780128	45	Salunke Ashwini Ashok	

Evaluated by: Signature of Guide: _____

Date : / / 2023

Name of Guide: Mr. S. H. Sangale.