|  | **K. K. Wagh Polytechnic, Nashik.**  Hirabai Haridas Vidyanagari, Amrutdham, Panchavati,Nashik-422003  **Department of Computer Technology** |
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| **Proposal for Micro-Project** | Institute Code: 0078 |
| Academic Year: 2023-24 | Program: Computer Technology |
| Course: Software Testing | Course Code: 22518 Scheme: I |
| Semester:5 Class: TYCM-Lin | 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, intertwist 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 ensuring 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 parts 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:**

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| 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 |

**5.0Resources Required:**

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| 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:**

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| --- | --- | --- | --- |
| 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.