

# Software Testing (IN3329)

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Logo (Neusoft Logo)

Project Title

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### Introduction

**Background:** Brief overview of the project and its importance. **Purpose:** Purpose of the testing project.

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### Objectives

**General Objectives:** Main goals of the testing process. **Secondary Objectives:** Additional goals and aims.

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### Scope

**In Scope:** Features and functionalities to be tested. **Out of Scope:** Features and functionalities not included in the testing process.

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### Testing Methodology / Techniques

**Approach:** Description of the overall testing approach. **Techniques:** Detailed explanation of the testing techniques used (e.g., black-box testing, white-box testing, exploratory testing). **Levels of Testing:** Unit testing, integration testing, system testing, acceptance testing.

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Test Plan

**Test Strategy:** Overall strategy for the testing process. **Entry and Exit Criteria:** Conditions for starting and ending testing phases.

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Test Cases

**Test Case ID:** Unique identifier for each test case. **Test Description:** Brief description of what the test case will validate. **Preconditions:** Any prerequisites for the test case. (if any) **Test Steps:** Detailed steps to execute the test. **Expected Results:** Expected outcome of the test case. **Actual Results:** Actual outcome after executing the test. **Status:** Pass/Fail/Blocked. **Comments:** Any additional notes or observations.

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Implementation

**Tools Used:** List of testing tools and frameworks. **Execution:** Process of executing the test cases. **Automation:** Details of any automated tests.

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Results

Summary of Results: Overview of the testing results. **Metrics:** Key metrics such as number of test cases executed, passed, failed, and blocked. **Graphs and Charts:** Visual representation of the testing results.

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Defects (Optional)

**Defect ID:** Unique identifier for each defect. **Description:** Detailed description of the defect. **Severity:** Severity level of the defect (Critical, High, Medium, Low). **Priority:** Priority level for fixing the defect. **Status:** Current status of the defect (New, Open, In Progress, Fixed, Closed). **Reported By:** Name of the person who reported the defect. **Assigned To:** Name of the person responsible for fixing the defect. **Resolution:** Description of how the defect was resolved.

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Conclusion

**Summary:** Summary of the testing process and outcomes. **Analysis:** Analysis of the results and any trends observed. **Lessons Learned:** Key takeaways from the testing process.

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Recommendations (Optional)

**Improvements:** Suggestions for improving the software based on the testing results. **Future Testing:** Recommendations for future testing efforts.

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