

Test Cases Prioritization

School Management System

12/23/2025

Version # 1

*Items that are intended to stay in as part of your document are in **bold**; **blue** italic text is used for explanatory information that should be removed when the template is used.*

Document Change History

Version	Date	Change	Role
1	Jan 2025	First Version	Process Engineer

Artifact Amendment History

Version	Date	Change	Approval
1	Dec 2025	First Version	Tester

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INTRODUCTION

This document defines the prioritization of test cases for the School Management System. The purpose of test case prioritization is to ensure that critical and high-risk test cases are executed earlier in the test cycle to reduce risk and improve test effectiveness.

Test cases are prioritized using the Coverage-Based Prioritization. Based on the prioritization results, the test execution order will be revised accordingly.

1.1 TEST SUITE: STUDENT AUTHENTICATION (TS-AUTH-01)

Test Case ID	Description	Coverage Units Covered	Coverage Score	Coverage %
TC-001	Login with valid credentials	Login core (A)	1	8.33%
TC-002	Login with invalid password	Login core (A) + Error handling (B)	2	16.67%
TC-003	Login with empty username	Input validation (C)	1	8.33%
TC-004	Login with empty password	Input validation (C)	1	8.33%

1.2 TEST SUITE: STUDENT REGISTRATION (TS-REGISTRATION-01)

Test Case ID	Description	Coverage Units Covered	Coverage Score	Coverage %
TC-005	Successful student registration	Registration core (D)	1	8.33%
TC-006	Missing mandatory fields	Registration validation (E) + Input validation (C)	2	16.67%
TC-007	Invalid email format	Registration validation (E) + Input validation (C)	2	16.67%
TC-008	Duplicate registration	Registration core (D) + Data integrity (E)	2	16.67%

1.3 TEST SUITE: ATTENDANCE MODULE (TS-ATTENDANCE-01)

Test Case ID	Description	Coverage Units Covered	Coverage Score	Coverage %
TC-009	Mark attendance	Attendance create record (F)	1	8.33%
TC-010	Attendance for invalid student	Attendance error handling (G)	1	8.33%
TC-011	Attendance report generation	Attendance reporting (H)	1	8.33%
TC-012	Edit attendance	Attendance update (I)	1	8.33%

1.4 TEST SUITE: FEE PAYMENT MODULE (TS-FEEPAYMENT-01)

Test Case ID	Description	Coverage Units Covered	Coverage Score	Coverage %
TC-013	Fee payment success	Payment core flow (J)	1	8.33%

TC-014	Insufficient funds	Payment core (J) + Payment error handling (K)	2	16.67%
TC-015	Invalid card details	Payment core (J) + Payment validation/error handling (K)	2	16.67%
TC-016	Receipt generation	Payment core (J) + Receipt output (L)	2	16.67%