

Test Plan Document

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1. Introduction

This test plan outlines the acceptance, edge case, and security tests for the ERP system. Tests verify core functionality across three user roles (Student, Instructor, Admin) and ensure proper separation between Authentication DB and ERP DB.

2. Test Environment Setup

2.1 Pre-configured Test Accounts

- sam / password: sam (Admin role)
- qty / password: qty (Instructor role)
- shanky / password: shanky (Student role)
- mannu / password: mannu (Student role)

2.2 Sample Data

- 5 courses (MTH 101(2 sections), ECO 333(2 sections))
 - 1 section at full capacity for testing enrollment limits
 - Various grades entered for shanky and mannu
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3. Edge & Negative Tests

- You can try to enter negative values as the marks in the give grade option of a instructor
 - You can try to enter negative values in the fields of add course like capacity, weighthage of components.
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4. Data Integrity Tests

- Student cannot enroll in the same section twice.
 - Every user will have a unique username.
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5. UI/UX Tests

- Clear labels and buttons.
 - Friendly error messages.
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6. Performance Tests

- Catalog with 100 courses loads in a few seconds.
 - Application starts without crashing.
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7. Test Execution Notes

Passes all the tests mention in the Acceptance tests in the document