System Test Report (STR)

Project Name: Educational Management System  
Version: 1.0  
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System Test Report (STR) for Educational Management System

1. Test Coverage

* Modules Tested:
  + Authentication
  + Validation
  + UI Responsiveness
  + Error Handling
  + Student Registration
* Test Types:
  + Functional Testing
  + Validation Testing
  + UI Responsiveness
  + Error Handling
  + Authentication Tests

2. Test Results Summary

* Overall Coverage: 85% of identified test cases executed.
* Pass Rate: 70% of executed tests passed successfully.
* Failed Cases: 30% failed due to input validation issues, logical errors, and inconsistent error messaging.

3. Known Issues

* Extreme-Severity Defects:
* Working discount with empty Discount code(BUG\_012).
* invalid login ,wrong password or name(BUG\_022).
* System changing the email address (BUG\_023).
* High-Severity Defects:
  + Input validation for numeric names in Lecturer fields (BUG\_002).
  + Invalid email formats not handled correctly in several modules (BUG\_003, BUG\_011).
  + Duplicate lecturer assignment allowed (BUG\_005).
* Moderate-Severity Defects:
  + Vague or missing error messages in the validation module (BUG\_014).
  + Empty field submissions inconsistently handled (BUG\_015).

4. Recommendations for Release

* Pre-Release Fixes:
  + Resolve high-severity and extreme defects in validation and error handling.
  + Ensure standardized error messaging across modules.
  + Test fixes thoroughly using regression testing.
* Pilot Deployment:
  + Deploy to a controlled user group with active monitoring.
  + Gather real-time feedback to identify hidden issues.
* Future Enhancements:
  + Automate repetitive validation and UI tests.
  + Incorporate detailed analytics for error reporting.

5. General Observations

* Reliability: Core functionalities are stable and ready for limited deployment.
* User Experience: Needs improvement in error handling and validation prompts.
* Performance: Meets acceptable thresholds, but authentication modules require optimization.

This report outlines the readiness of the Educational Management System for pilot deployment, with highlighted areas needing immediate attention to ensure a seamless user experience.