USER ACCEPTANCE TESTING (UAT) DOCUMENT

Project Name: Student Performance Analyzer

1. Introduction

1.1 Purpose

The purpose of this User Acceptance Testing (UAT) document is to verify that the **Student Performance Analyzer** system meets the business and functional requirements defined in the BRD and FSD.
UAT ensures that the system is ready for real-world academic use.

1.2 Scope

This UAT covers:

- Student data processing
- Performance status calculation
- Attendance evaluation
- At-risk student identification
- Subject-wise average calculation

2. UAT Participants

Role	Responsibility
Faculty	Validate performance and attendance logic
Academic Coordinator	Verify reports and accuracy
Admin	Data upload and validation
Management	Final approval

3. UAT Environment

- Test Environment: Internal Test System

- Input Data Format: Excel / CSV
- Test Records: Sample student performance dataset
- Browser: Any standard web browser

4. Entry and Exit Criteria

4.1 Entry Criteria

- BRD and FSD are approved
- System development is completed
- Test data is available
- UAT environment is ready

4.2 Exit Criteria

- All critical test cases passed
- No high-severity defects open
- Business users approve system functionality

5. UAT Test Scenarios and Test Cases

5.1 Student Data Validation

Test Case ID	Test Scenario	Expected Result	Status
UAT-01	Upload valid student data	Data accepted successfully	
UAT-02	Upload data with missing Student_ID	Error message displayed	
UAT-03	Upload duplicate Student_ID	Duplicate record flagged	

5.2 Performance Status Calculation

Test Case ID	Test Scenario	Expected Result	Status
UAT-04	Grade ≥ 75	Performance status = High	
UAT-05	Grade between 50–74	Performance status = Average	
UAT-06	Grade < 50	Performance status = Low	

5.3 Attendance Evaluation

Test Case ID	Test Scenario	Expected Result	Status
UAT-07	Attendance ≥ 75%	Attendance flag = OK	
UAT-08	Attendance < 75%	Attendance flag = Attendance Issue	

5.4 At-Risk Student Identification

Test Case ID	Test Scenario	Expected Result	Status
UAT-09	Low performance	At_Risk = Yes	
UAT-10	Attendance < 60%	At_Risk = Yes	
UAT-11	Good performance and attendance	At_Risk = No	

5.5 Subject-Wise Average Calculation

Test Case ID	Test Scenario	Expected Result	Status
UAT-12	Calculate average for each subject	Correct subject-wise average displayed	
UAT-13	Multiple students per subject	Average calculated correctly	

6. Defect Management

Defect ID	Description	Severity	Status

7. UAT Assumptions

- Test data represents real student records
- Performance rules remain unchanged during testing
- Users performing UAT are trained

8. Risks

- Incorrect test data may affect validation
- Delay in user feedback may impact approval
- Changes in business rules may require re-testing