

# 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 $\geq$ 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 $\geq$ 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