Acceptance Test Plan – GradeBook System

1. Project Overview

The GradeBook system is designed for teachers to manage students, groups, grades, and generate report cards efficiently. The system supports multilingual functionality, ensuring usability for a diverse user base. This test plan outlines how acceptance testing will be conducted to verify that the system meets all functional, usability, and performance requirements.

2. Acceptance Criteria

- Teachers can securely register, log in, and manage accounts.
- Group and student creation, update, and deletion are fully functional.
- Grade categories and weights can be defined and edited.
- Grades can be entered, viewed, edited, deleted, and used to compute overall averages.
- Report cards can be generated, exported to PDF, and printed.
- The UI is intuitive and supports language switching.
- Multilingual data storage and display are supported across the system.

3. Acceptance Test Design

3.1 Functional Tests

Test ID	Feature	Test Description	Expected Result
FT01	Authentication	Register a new teacher account	Account is created and stored in DB
FT02	Authentication	Log in with valid credentials	Teacher is redirected to dashboard
FT03	Group Management	Create a new group	Group is saved and listed
FT04	Group Management	Edit existing group details	Group updates are visible immediately
FT05	Group Management	Delete a group	Group is removed from the list
FT06	Student Management	Add a student to a group	Student appears in group's student list
FT07	Student Management	Edit student details	Changes are reflected in student list
FT08	Student	Delete a student	Student is removed

	Management		from system
FT09	Grade Categories	Add/edit/delete	Categories update
		grade categories	correctly
FT10	Grade Entry	Add/edit/delete	Grades reflect
		grades for students	correct values
FT11	Grade Calculation	Calculate overall	Results match
		and weighted	expected
		averages	calculations
FT12	Report Card	Generate a report	Report card is
		card	accurate and well-
			formatted
FT13	Report Export	Export report card	PDF is generated
		as PDF	and downloadable
FT14	Localization	Switch language in	Interface updates to
		UI	selected language

3.2 Usability Tests

Test ID	Scenario	Test Description	Expected Outcome
UT01	Navigation	Can a new user find	User locates and
		the "Add Student"	uses it without
		button easily?	guidance
UT02	Language Setting	Can a user switch	Language is
		language without	switched intuitively
		confusion?	and updates
			instantly
UT03	Form Input	Are grade inputs	Invalid inputs show
		validated properly?	clear error
			messages

3.3 Performance Tests

Test ID	Scenario	Test Description	Expected Outcome
PT01	Report Generation	Generate a report card with 10+ subjects	Completed within 3 seconds
PT02	Language Switch	Change language from English to Chinese	UI updates within 1 second
PT03	Bulk Grade Entry	Add grades for 30 students	System responds without lag

4. Tools and Environment

- Testing Type: Manual UI testing, unit testing (JUnit), PDF export check
- Environment: JavaFX application with MariaDB backend
- Tools: IntelliJ IDEA, MySQL Workbench, Postman (if applicable), PDF viewer