

Testing Plan

Test ID	Feature / Module	Test Scenario (Action)	Expected Result	Status
01	Database Setup	Run DatabaseSetup.java directly.	Console prints "Database Setup Complete!" and tables are created.	Pass
02	Login (Success)	Enter valid credentials (stu1 / password123).	Dashboard opens with correct role tabs.	Pass
03	Login (Failure)	Enter invalid password.	"Incorrect username or password" message.	Pass
04	Account Lockout	Enter wrong password 5 times.	"Account has been locked" popup appears; Login disabled.	Pass
05	Admin Unlock	Admin unlocks locked user in "User Management".	"User account unlocked successfully" message. User can log in.	Pass
06	Change Password	User changes password via Login screen link.	"Password changed successfully". New password works.	Pass
07	Student View	Log in as Student; view "Course Catalog".	List of courses appears; Day/Time columns are split.	Pass
08	Registration	Register for a section in Catalog.	"Successfully registered" message. Section in "My Registrations".	Pass
09	Drop Course	Drop a registered section.	Course removed from list; "Dropped!" message.	Pass
10	Timetable	View "My Timetable".	Registered courses appear in grid at correct slots.	Pass
11	SGPA Calc	View "My Grades".	SGPA calculates correctly based on grades.	Pass
12	Instructor View	Log in as Instructor; view "My Sections".	Only assigned sections are visible.	Pass

13	Search Student	Type student name in "Grades Management".	Dropdown filters to matching students.	Pass
14	Grade Entry	Enter scores and click Update.	Grade calculates to correct letter (AF).	Pass
15	Custom Cutoffs	Change grading cutoffs (e.g., A at 95).	Letter grade recalculates based on new scale.	Pass
16	Gradebook View	Load course in "Gradebook View".	Table shows all students with scores/grades.	Pass
17	Create User	Admin creates new Instructor inst2.	"User created successfully". User exists in DB.	Pass
18	Create Section	Admin creates section with split Day/Time.	Section created and visible in catalogs.	Pass
19	Maintenance	Admin toggles Maintenance ON.	Red banner "SYSTEM UNDER MAINTENANCE" appears.	Pass
20	Maint. Check	Student tries to Drop course during Maintenance.	Action blocked; Error popup appears.	Pass
21	CSV Export	Click "Download CSV" in Gradebook.	File dialog opens; CSV saves with correct data.	Pass
22	Validation	Submit empty fields in forms.	"Fields required" warning appears.	Pass