

#	Summary	Dependency	Pre-condition	Post-condition	Execution Steps	Expected Output
TC1	Verify that a registered user (Student) is able to login with correct user ID and password	—	Student ID ST1001 is registered; password is Student@123	Student is logged in	Type in Student ID ST1001, Password Student@123, Click on 'Login'	Student Dashboard page is displayed
TC2	Verify that an unregistered user cannot login	—	User ID ST9999 not registered	User is not logged in	Type in ID ST9999, Password AnyPass, Click 'Login'	Login failed! Invalid credentials.
TC3	Verify that registered user cannot login with wrong password	—	Student ID ST1001 is registered	User is not logged in	Type in Student ID ST1001, Password WrongPass, Click 'Login'	Error: Invalid password
TC4	Verify system response for two consecutive wrong password attempts	TC3	Execute TC3 once before	User not logged in	Enter Student ID ST1001, Password WrongPass2, Click 'Login'	Error message persists: Invalid password
TC5	Verify that after three consecutive wrong attempts, system asks for security question	TC4	Execute TC4 before this	User not logged in	Enter Student ID ST1001, Password WrongPass3, Click 'Login'	System displays Security Question dialog
TC6	Verify that user can recover account after answering security question correctly	TC5	Answer = “MyFavBook”	Password reset email sent	Enter correct answer, Click 'Recover Account'	Password reset successful. Check email.
TC7	Verify that account is blocked after wrong security answer	TC5	Wrong answer entered	Account locked	Enter wrong answer, Click 'Recover Account'	Your account is blocked. Contact Admin.
TC8	Verify Student login leads to student dashboard only	TC1	Login successful as student	Student Dashboard visible	Login as ST1001	Student Dashboard loads with modules: Marks, Fees, AI Insights
TC9	Verify Faculty login leads to faculty dashboard	—	Faculty ID FC2001, Password Faculty@123	Faculty Dashboard visible	Login as FC2001	Faculty Dashboard shows Course and Marks Upload sections
TC10	Verify Admin login leads to admin panel	—	Admin ID AD3001, Password Admin@123	Admin Panel visible	Login as AD3001	Admin Panel loads with controls: Users, Fees, Notifications
TC11	Verify AI Module generates student performance insights	TC8	Student logged in	AI insights visible	Click on “AI Insights” tab	Graph showing predicted performance and suggestions
TC12	Verify system sends login success notification asynchronously	TC1	Valid login	Notification sent	Login as any valid user	Message: “Login successful” received via notification/email