

Test ID	Objective	Use Case / Feature	Test Case Description	Example Test Data	Expected Result	Note	Result
TC-001	Display all classrooms in system	View Classrooms	Navigate to 'Room Management' page		System displays list of available classrooms		Success
TC-002	Verify reservation can be made	Add Reservation	Select classroom and confirm booking	Classroom=Room101, Date=2025-10-10, Time=09:00-11:00	Reservation confirmed, confirmation message displayed		Success
TC-003	Check conflict handling when adding reservation	Add Reservation	Try reserving same classroom same time slot	Classroom=Room101, Date=2025-10-10, Time=10:00-12:00	System prevents booking and shows 'Room already reserved' error		Success
TC-004	Allow user to cancel reservation	Cancel Reservation	User cancels existing booking	ReservationID=12345	Reservation removed and room becomes available		Success
TC-005	Allow user to edit reservation	Edit Reservation	User modifies reservation to new time slot	ReservationID=12345, NewTime=11:00-13:00	Reservation updated successfully if no conflict		Success
TC-006	Check conflict handling when editing reservation	Edit Reservation	User modifies reservation to a conflicting time slot	already booked reservation details	System prevents update and shows conflict error		Success
TC-007	Display schedule by day	View Schedule	User views daily classroom schedule	Date=2025-10-29	System displays classroom reservations for the day		Success
TC-008	Display schedule by month	View Schedule	User views monthly classroom schedule	Week=2025-10	System displays classroom reservations for the month		Success
TC-009	Allow navigation of monthly schedule	View Schedule	User navigates to previous or next month	CurrentWeek=2025-10, Action=Next, Back	System shows schedule for the different month		Success
TC-010	Allow filtering schedule by classroom	View Schedule	User filters schedule to show only one classroom	Classroom=Room101, Week=2025-W42	System displays weekly schedule only for Room101	Haven't Implement	Fail
TC-011	Allow filtering schedule by subject	View Schedule	User filters schedule to show only Math reservations	Subject=Math, Week=2025-W42	System displays weekly schedule only for Math subject	Haven't Implement	Fail
TC-012	Add new classroom	Manage Classrooms	User adds a new classroom with capacity and equipment	Room=Room301, Capacity=40, Equipment=Projector	Classroom successfully added and listed		Success
TC-013	Check conflict when adding classroom	Manage Classrooms	Try adding classroom with duplicate name	Exisging classroom details	System prevents addition and shows error: 'Classroom already exists'	Haven't Implement	Fail
TC-014	Edit classroom details	Manage Classrooms	User edits existing classroom details	Room=Room301, NewCapacity=50	Classroom details updated successfully		Success
TC-015	Check conflict when editing classroom	Manage Classrooms	Try editing classroom name to an existing classroom name	Exisging classroom details	System prevents addition and shows error: 'Classroom already exists'	Haven't Implement	Fail
TC-016	Delete classroom	Manage Classrooms	User in deletes an existing classroom	Room=Room301	Classroom deleted and no longer listed		Success
TC-017	Export usage reports	Export	Generate report for weekly classroom usage	Week=2025-W41	Report generated and available for download	Haven't Implement	Fail
TC-018	Recommend available room	Room-Recommendation	Recommend suitable room during user preferred time	timeStart = 2025-10-10:09-00-00, timeEnd = 2025-10-10:10-00-00, Capacity = 15	System display suitable room during that time		Success