Test ID	Objective	Use Case / Feature	Test Case Description	Test Data	Expected Result	Note
TC-001	Check available classrooms are listed	View Classrooms	Navigate to 'Available Rooms' page	Date=2025-10-10, Time=09:00-11:00	System displays list of available classrooms	
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	Check for room_id and time slot
TC-003	Check conflict handling when adding reservation	n Add Reservation	Try reserving same classroom same time slot	already booked reservation details	System prevents booking and shows 'Room already reserved' err	or
TC-004	Allow user to cancel reservation	Cancel Reservation	User cancels existing booking	ReservationID=12345	Reservation removed and room becomes available	Handle delete unexisting reservation
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	Check for room_id and time slot
TC-006	Check conflict handling when editing reservation	n Edit Reservation	User modifies reservation to a conflicting time slot	already booked reservation details	System prevents update and shows conflict error	
TC-007	Display schedule by week	View Schedule	User views weekly classroom schedule	Week=2025-W42	System displays classroom reservations for the week	
TC-008	Allow navigation of weekly schedule	View Schedule	User navigates to previous or next week	CurrentWeek=2025-W42, Action=Next	System shows schedule for the next week	Moving next and back
TC-009	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	Try different inputs
TC-010	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	Try different inputs
TC-011	Add new classroom	Manage Classrooms	User adds a new classroom with capacity and equipment	nt Room=Room301, Capacity=40, Equipment=Projector	Classroom successfully added and listed	
TC-012	Check conflict when adding classroom	Manage Classrooms	Try adding classroom with duplicate name	Exising classroom details	System prevents addition and shows error: 'Classroom already ex	is Check both room_id and name
TC-013	Edit classroom details	Manage Classrooms	User edits existing classroom details	Room=Room301, NewCapacity=50	Classroom details updated successfully	
TC-014	Check conflict when editing classroom	Manage Classrooms	Try editing classroom name to an existing classroom na	m Exising classroom details	System prevents addition and shows error: 'Classroom already ex	is Check both room_id and name
TC-015	Delete classroom	Manage Classrooms	User in deletes an existing classroom	Room=Room301	Classroom deleted and no longer listed	
TC-016	Export usage reports	Export	Generate report for weekly classroom usage	Week=2025-W41	Report generated and available for download	