

Traceability Matrix for SOEN390 W2024: Condo Management Systems

Requirement ID	Requirement Description	GitHub Issue	Test Case ID(s)	Pull Request
REQ1	Public users can create their own unique profile with a profile picture, username, contact email, and phone number.	#2 #6	TC1, TC2	#79
REQ2	Public users need a registration key from their condo management company to become condo owners in the system.	#3 #24	TC3, TC4	#84
REQ3	Public users need a registration key from their condo management company to become rental users in the system.	#18	TC5, TC6	#18

REQ4	Condo owners can view a dashboard of their properties including personal and condo information, financial status, and status of requests.	#5	TC7, TC8, TC9	#52
REQ5	Condo management companies can create a profile for properties they manage.	#7 #57	TC10, TC11	#56
REQ6	Condo management companies can upload condo files for each property.	#8	TC12, TC13	#97
REQ7	Condo management companies can enter detailed information for each condo unit, parking spot, and locker.	#9	TC14, TC15, TC16	#90
REQ8	Condo management companies can send registration keys to unit owners or rental users.	#25	TC17, TC18	#85
REQ9	The system contains a simplified financial system to manage and present condo fees and generate annual reports.	#10 #11	TC19, TC20, TC21	#70

REQ10	The system contains a reservation system for common facilities with a calendar interface and availability tracking.	#15 #16	TC22, TC23, TC24	#101
REQ11	Condo management companies can set up roles for employees managing the same property.	#20	TC25, TC26	#83
REQ12	Condo owners can submit various types of requests which are assigned to the corresponding employee.	#14	TC27, TC28, TC29	#89
REQ13	Users have a notification page for activities related to submitted or assigned requests.	#13	TC30, TC31	#103

Detailed Test Cases for SOEN390 W2024: Condo Management Systems

Test Case ID	Description
TC1	Verify that a public user can successfully create a profile by entering all required fields (profile picture, username, contact email, phone number) and that the username is unique.
TC2	Check that the system prevents the creation of a profile with an already existing username, displaying an appropriate error message.
TC3	Test that a public user can use a valid registration key to register as a condo owner, with the system linking the profile to a specific condo unit.
TC4	Ensure that entering an invalid registration key during the condo owner registration process results in an error message and blocks the registration.
TC5	Verify that a public user can register as a rental user using a valid registration key, with the system linking the profile to a designated rental unit.
TC6	Test the system's response when a rental user attempts to register with an invalid or expired registration key, ensuring it prevents registration and displays an error.
TC7	Check that a condo owner can access the dashboard and view all required information such as personal profile, condo information, financial status, and status of requests without errors.
TC8	Verify that all data displayed on the condo owner's dashboard is accurate and up-to-date, reflecting the most recent updates and changes.
TC9	Assess the performance and load time of the dashboard to ensure it loads efficiently even with large amounts of data.
TC10	Verify that a condo management company can create a property profile including all required fields (property name, unit count, parking count, locker count, address).

TC11	Test the ability to edit an existing property profile and check that all changes are saved correctly and reflected immediately.
TC12	Ensure that condo management companies can successfully upload condo files (PDFs) for a property and that these files are accessible to all condo owners of that property.
TC13	Test the security and permissions of uploaded condo files to ensure that only condo owners and tenants of the specific property can view them.
TC14	Verify detailed entry of condo unit information (unit id, size, owner, occupant information, condo fee) by a condo management company and its accuracy on the platform.
TC15	Test the entry and correctness of parking spot information (parking spot id, owner, occupant information, condo fee) in the system.
TC16	Verify the functionality for entering locker information (locker id, owner, occupant information) and ensure it is accurately recorded and displayed.
TC17	Test the process of generating and sending registration keys to new unit owners by a condo management company, checking for accuracy and receipt.
TC18	Verify the process for a condo management company to generate and send registration keys to rental users, ensuring the keys are usable and correct.
TC19	Verify the calculation of condo fees per square foot and per parking spot, ensuring the amounts reflect correctly in unit owners' bills.
TC20	Test the entry of operational costs into the financial system by a condo management company and verify that the entries are reflected in the financial reports.
TC21	Assess the generation of annual financial reports to ensure they accurately compile all financial data including condo fees collected and operational costs.
TC22	Test the functionality of the reservation system to allow a tenant to reserve a common space and ensure the space is marked as unavailable for the reserved time.

TC23	Verify that the reservation system correctly displays available times for common facilities and allows bookings without conflicts or errors.
TC24	Assess the usability and interface of the calendar in the reservation system to ensure ease of use and accessibility for all tenants.
TC25	Test the functionality for a condo management company to set up roles for different employees and ensure these roles are enforceable within the system.
TC26	Verify that employees can access only the functionalities related to their set roles, confirming proper role-based access control.
TC27	Test that condo owners can submit various types of requests (moving in/out, intercom changes, etc.) and that these are correctly recorded in the system.
TC28	Verify that submitted requests are appropriately assigned to employees based on the type of request, with assignments reflecting correctly in the system.
TC29	Assess the notification system for ensuring that all relevant parties are alerted to new and updated requests promptly and accurately.
TC30	Test the notification page for users to ensure that it accurately displays the latest activities related to submitted or assigned requests.
TC31	Verify the performance and load times of the notification page, especially when handling a large number of notifications.