

SOEN390 - Software Engineering Team Design Project
Team 6 - Deliverable 1

Requirements and User Backlog

Winter 2024

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1. Requirements

1.1 Non-Functional Requirements

Requirement 1: The Condo Management System shall ensure mobile accessibility on Android, iOS, Linux, MacOS, and Windows devices, promoting usability for users across diverse platforms.

- Quality Attribute: Usability
- Sub-Quality Attribute: Accessibility
- Subject: Condo Management System
- Action: Accessible on multiple platforms
- Constraints of Action: Accessible on Android, iOS, Linux, MacOS, and Windows

Requirement 2: The Condo Management System shall support English and at least one additional language, enhancing usability for a multilingual user base.

- Quality Attribute: Usability
- Sub-Quality Attribute: Accessibility
- Subject: Condo Management System
- Action: Multilingual support
- Constraints of Action: Available in English and at least one additional language

Requirement 3: Users shall have the flexibility to log in using their Gmail account or other Single Sign-On options.

- Quality Attribute: Usability
- Sub-Quality Attribute: Authenticity
- Subject: User
- Action: Login
- Constraints of Action: Valid login through Gmail or other Single Sign-On options

Requirement 4: The system shall have a response time of less than 5 seconds, ensuring quick interactions for users.

- Quality Attribute: Performability
- Sub-Quality Attribute: Time Behavior
- Subject: Condo Management System
- Action: Response
- Constraints of Action: Within 5 seconds

Requirement 5: Financial data, including condo fees and costs, shall be encrypted to ensure privacy, and only authorized users can decrypt the information.

- Quality Attribute: Privacy
- Sub-Quality Attribute: Confidentiality
- Subject: Financial Data
- Action: Encryption
- Constraints of Action: Decryption for authorized users only

Requirement 6: At least 10 users should be able to access the application concurrently, ensuring optimal performance.

- Quality Attribute: Performability
- Sub-Quality Attribute: Capacity

- Subject: Condo Management System
- Action: Access the system
- Constraints of Action: At least 3 Users

1.2 Functional Requirements

Requirement 1: Public users must provide a unique registration key from their condo management company to become condo owners or rental users in the system.

- Quality Attribute: Security
- Sub-Quality Attribute: Authenticity
- Subject: Public User
- Action: Register as condo owner or rental user
- Constraints of Action: Valid registration key required

Requirement 2: Condo owners should have access to a comprehensive dashboard displaying property information, including personal profile, condo details, and financial status.

- Quality Attribute: Usability
- Sub-Quality Attribute: Accessibility
- Subject: Condo Owner
- Action: View dashboard
- Constraints of Action: Accessible property details and financial status

Requirement 3: The system shall allow the user to view and edit their profile information.

- Quality Attribute: Usability
- Sub-Quality Attribute: Accessibility
- Subject: Condo Management System
- Action: View & edit profile
- Constraints of Action: Must be logged in

Requirement 4: The system shall allow registered users to log in to the condo management system.

- Quality Attribute: Security
- Sub-Quality Attribute: Authenticity
- Subject: Condo Management System
- Action: Login
- Constraints of Action: Allow valid users

Requirement 5: A user can try to login 5 times before getting blocked.

- Quality Attribute: Security
- Sub-Quality Attribute: Authenticity
- Subject: User
- Action: Login

Requirement 6: The system shall allow valid users to recover/change their password when the user forgets or desires to change it.

- Quality Attribute: Usability

- Sub-Quality Attribute: Operability
- Subject: Condo Management System
- Action: Recover Password
- Constraints of Action: Valid user

Requirement 7: Condo management companies must be able to upload condo files for each property, ensuring easy access for condo owners.

- Quality Attribute: Usability
- Sub-Quality Attribute: Manageability
- Subject: Condo Management System
- Action: Upload condo files
- Constraints of Action: Secure access for authorized users

Requirement 8: The system shall support the entry of detailed information for each condo unit, parking spot, and locker, including owner details and associated fees.

- Quality Attribute: Completeness
- Sub-Quality Attribute: Data Accuracy
- Subject: Condo Management System
- Action: Enter detailed information for condo units, parking spots, and lockers
- Constraints of Action: Accurate and up-to-date data entry

Requirement 9: Condo management companies should be able to generate and distribute registration keys to unit owners or rental users for linking their profiles to specific units.

- Quality Attribute: Security
- Sub-Quality Attribute: Authorization
- Subject: Condo Management System
- Action: Generate and distribute registration keys
- Constraints of Action: Authorized access to key generation and distribution

Requirement 10: The system shall calculate condo fees for each unit based on factors such as square footage and parking spot allocation.

- Quality Attribute: Accuracy
- Sub-Quality Attribute: Efficiency
- Subject: Condo Management System
- Action: Calculate condo fees
- Constraints of Action: Accurate calculation algorithms

Requirement 11: Condo owners and rental users should be able to reserve common facilities using a calendar-like interface.

- Quality Attribute: Usability
- Sub-Quality Attribute: Interactivity
- Subject: Condo Owner/Rental User
- Action: Reserve common facilities
- Constraints of Action: Clear and intuitive reservation process

2. User Stories Backlog

2.1 Epic 1: User Account Management

US-01	User Registration		
As a public user, I want to sign up with my first name, last name, username, email, phone number and password so that I can create a unique profile.			
User Account Management			
M	5	L	1

US-02	User Login		
As a public user, I want to login so that I can access personalized information and utilize features exclusive to registered users.			
User Account Management			
M	8	L	3

US-03	User Log Out		
As a public user, I want to be able to log out of my account so that I can prevent unauthorized access to my account once my session is complete.			
User Account Management			
M	8	M	1

US-04	Forgotten Password Reset
As a public user, I want to be able to request a password reset so that I can regain access to my account if I forget my password.	
User Account Management	

M	8	M	2
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US-05	Change Password		
As a public user, I want to be able to change my password whenever I'd like, so that I can enhance the security of my account.			
User Account Management			
M	5	M	2

2.2 Epic 2: User Profile

US-06	Make User Profile		
As a public user, I want to have my own user profile, so that I can personalize my experience within the condo management system.			
User Profile			
M	8	M	5

US-07	Edit User Profile		
As a public user, I want to be able to modify my user profile details within the condo management system, so that I can keep my information accurate and up-to-date.			
User Profile			
M	5	L	2

US-08	View User Profile		
As a public user, I want to view my user profile, so that I can maintain accurate and up-to-date personal details within the condo management system.			
User Profile			
M	5	L	5

2.3 Epic 3: Company Account Management

US-09	Create company account		
As a Condo Management Company, I want to create an account with company details so that I can establish a presence within the condo management system and manage properties under my care efficiently.			
Company Account Management			
M	5	L	5

US-010	Company Log in		
As a Condo Management Company, I want to be able to log into my existing account so that I can manage my existing properties			
Company Account Management			
M	5	L	3

US-011	Company Log Out		
As a Condo Management Company, I want to be able to log out of my account so that I can prevent unauthorized access to my account once my session is complete.			
Company Account Management			
M	8	M	1

US-012	Forgotten Password Reset		
As a Condo Management Company, I want to be able to request a password reset so that I can regain access to my account if I forget my password.			
Company Account Management			
M	8	M	2

US-013	Change Password		
As a Condo Management Company, I want to change my password when I'd like so that I can enhance the security of my account.			
Company Account Management			
M	5	M	2

2.4 Epic 4: Registration Management

US-014	Obtain registration key for condo owner		
As a public user, I want to have a registration key from the condo company to become an owner in the system so that I can authenticate my ownership and access the owner-specific features.			
Registration Management			
M	3	L	2

US-015	Obtain registration key for rental user		
As a public user, I want to have a registration key from the condo company to become a rental user in the system so that I can authenticate my identity and access the tenant-specific features.			
Registration Management			
M	3	L	2

US-016	Send registration key		
As a condo management company, I want to be able to send registration keys to unit owners or rental users for their units so that they can link their profiles to their units and access relevant information and features.			
Registration Management			
M	3	L	2

2.5 Epic 5: Condo and Property Management

US-017	Have a dashboard		
As a condo owner, I want to have a dashboard of properties (general information, personal profile, condo information, financial status, remaining balance of condo fee payments, status of submitted request) so that I can easily manage and keep track of my properties.			
Condo and Property Management			
M	8	L	5

US-018	Upload condo file		
As a condo management company, I want to be able to upload a condo file for each property so that all condo owners of that property can access important documents and information.			
Condo and Property Management			
M	3	M	3

US-019	Enter detailed information for condo		
As a condo management company, I want to be able to enter detailed information for each condo unit (condo unit, parking spot, locker) so that I can keep track of all assets, amenities and their details.			
Condo and Property Management			
M	8	L	5

US-020	Edit detailed information for condo		
As a condo management company, I want to edit the contents of the condo, so that the information can be corrected if it is wrong or updated if I have new information to add to it.			
Condo and Property Management			
M	8	M	3

US-021	Add an Entry in Dashboard		
As a condo owner, I want to add an entry of a property in the contents of the dashboard page, so that the information on my dashboard can be updated to add new properties in my ownership.			
Condo and Property Management			
M	8	M	2

US-022	Delete an Entry in Dashboard		
As a condo owner, I want to delete an entry made in the contents of the dashboard page, so that I can remove properties that are incorrect or no longer owned by me if ever I've sold them.			
Condo and Property Management			
M	5	M	2

2.6 Epic 6: Requests System

US-023	Submit requests		
As a condo owner, I want to be able to submit requests, so that I can communicate my needs and issues to the management.			
Note: The types of requests consist of: <ul style="list-style-type: none">• Moving in/out• Intercom changes• Request access• Report a violation• Report deficiency found in common area• Question			
Requests System			
M	3	M	5

US-024	See assigned requests		
As a condo management employee, I want to be able to see the assigned requests so that I can promptly address and resolve them and stay updated on the status of my assigned requests.			
Requests System			
M	8	L	2

US-025	Notification Page for Request Tracking		
As a user, I want to be able to have a notification page so that I can see and stay updated on the latest activities in my submitted or assigned requests.			
Requests System			
M	5	L	2

2.7 Epic 7: Reservation System

US-026	Reserve common facilities		
As a condo owner, I want to be able to reserve common facilities in a calendar-like interface so that I can easily plan and schedule my use of these facilities.			
Reservation System			
M	5	H	3

US-027	Set up a common facility		
As a condo management company, I want to be able to set up a common facility which requires reservations so that occupants can utilize shared amenities fairly and in an organized manner.			
Reservation System			
M	5	M	5

US-028	See availabilities		
As a rental user, I want to be able to see the availability of common facilities so that I can see if any availability aligns with my schedule.			
Reservation System			
M	5	L	1

US-029	Modify Reservation		
As a rental user, I want to be able to modify or cancel my existing reservation for a common facility, so that I am no longer committed to a reservation that I cannot go to in the case of changes in my plans or scheduling conflicts.			
Reservation System			
M	5	L	3

US-030	Disable Reservation for Unavailable Facilities		
As a condo management company, I want to be able to disable the availability of a common facility, so that occupants cannot reserve the facility if it is already reserved and are aware of its unavailability.			
Reservation System			
S	5	L	5

2.8 Epic 8: Financial System

US-031	Enter condo fees		
As a condo management company, I want to be able to enter the condo fee per square foot, per parking spot so that accurate calculations can be made and presented to unit owners.			
Condo Fee Management			
M	5	L	1

US-032	Enter Operation Cost		
As a condo management company, I want to be able to enter the cost for each operation so that I can keep track of financial expenses and provide transparency to owners.			
Financial System			
M	8	M	5

US-033	See the calculated fee		
As a unit owner, I want to be able to see the calculated condo fee for each unit so that I am aware of the financial obligation and can plan accordingly.			
Financial System			
M	5	L	1

US-034	Record Operational Budget		
As a condo management company, I want to be able to see a record of the operational budget, which includes the total condo fees collected from unit owners, so that I can manage the financial resources of the company.			
Financial System			
M	8	M	3

US-035	Annual report		
As a condo management company, I want to be able to see an annual report so that I can assess the financial performance and overall status of the property.			
Financial System			
M	5	M	3

2.9 Epic 9: User Navigation System

US-036	Navigate pages		
As a public user, I want to easily navigate between different pages so that I can effortlessly explore various features and sections of the condo management app and website.			
User Navigation Experience			
M	5	L	5

2.10 Epic 10: Employee Management

US-037	Create Employee Profile		
As a condo management company, I want to create employee profiles, so that I can see and manage new hires within the company's system.			
Employee Management			
M	8	M	5

US-038	Assign roles		
As a condo management company, I want to be able to set up different roles for different employees so that responsibilities can be assigned to the appropriate employee and property management tasks can be efficiently handled.			
Employee Management			
M	8	M	3

US-039	Delete Employee Profile		
As a condo management company, I want to delete employee profiles, so that I can remove people that are no longer employees within the company's system.			
Employee Management			
M	8	M	5

2.11 Epic 11: Connections

US-040	Post on a forum		
As a user, I want to be able to post on a forum so that I can share information or opinions.			
Connections			
C	2	L	5

US-041	Reply to Posts		
As a user, I want to be able to reply to posts on a forum so that I can actively engage with the community.			
Connections			
C	2	L	5

US-042	Organize events with occupants		
As a user, I want to be able to organize events so that I can encourage community engagement and social interaction with other occupants.			
Connections			
C	2	L	8

US-043	Invite occupants to events		
As a user, I want to be able to invite occupants to available events so that we can foster a sense of community and engagement among residents.			
Connections			
C	2	L	5

2.12 Epic 12: Promotions

US-044	Add coupons/offers		
As a condo management company, I want to be able to add coupons and offers for a property so that unit owners and rental users of that property can access exclusive deals and promotions			
Promotions			
C	2	L	5

US-045	Edit coupons/offers		
As a condo management company, I want to be able to edit coupons and offers for a property, so that the information can be corrected if it is wrong or updated if I have new information to add to it.			
Promotions			
C	2	L	3

US-046	Delete coupons/offers		
As a condo management company, I want to be able to delete coupons and offers for a property so that I can remove coupons and offers that are incorrect or no longer applicable to the property.			
Promotions			
C	2	L	5