

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

Software Product Vision

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1. Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the Condo Management System. It focuses on the capabilities needed by the stakeholders, and the target users, and **why** these needs exist. The details of how the Condo Management System fulfills these needs are detailed in the use-case and supplementary specifications.

1.1. References

N/A

2. Positioning

2.1. Problem Statement

The problem of	inefficient and fragmented condo management
affects	condo owners, rental users, and management companies
the impact of which is	delayed responses to requests, lack of transparency in financial transactions, and difficulty in accessing essential condo-related information
a successful solution would be	to improve communication, streamline management processes, and enhance user experience by giving users a uniformed product where all of them can perform all the property-related activities in one place.

2.2. Product Position Statement

For	condo owners, rental users, and management companies
Who	want to perform condo management tasks
The (product name)	Condo Management System is a software product
That	centralizes all the condo-related activities into one application
Unlike	the current inefficient and fragmented condo management that needs users to go to different places/applications to do their tasks

Our product	group all condo-related tasks into one single application, simplifying the process of condo management and saving time for all users.
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3. Stakeholder and User Descriptions

3.1. Stakeholder Summary

Name	Description	Responsibilities
Condo owners	Users who own the condo unit	<ul style="list-style-type: none"> Provides regular payment of condo fees Provides submission of requests.
Rental Users	Users who is renting the condo unit	<ul style="list-style-type: none"> Provide their own unique profile with their username, contact email, phone number, registration key
Condo Management	The company who is managing the property which contains multiple condos	<ul style="list-style-type: none"> Provide the system with the rate of the condo fee per square foot/parking spot. Provide the cost of each operation Provide information to the system concerning the facilities available Registers their employees in the system and assigns different roles to them

3.2. User Summary

Name	Description	Responsibilities	Stakeholder
Condo management	Organizations responsible for managing condo properties.	<ul style="list-style-type: none">- Ensure efficient daily operations- Financial stability- Adherence to regulations	self-represented
Condo Owners	Individuals who own condominium units.	<ul style="list-style-type: none">- Access property information- Monitor Financial Status- Submits request	self-represented.
Rental Users	Individuals renting condo units	<ul style="list-style-type: none">- Profile management- Financial tracking- Property Access- Request submission- Reservation- Participation- Communication	self-represented.

3.3. User Environment

- This system encompasses many tasks that all vary in duration. For example condo owners spend time reviewing their property dashboards, checking their financial information and submitting requests. Whilst a condo management company will spend time doing financial tracking and addressing user requests.
- The number of people involved can change depending on if new rental users join the system and as condo management companies expand their portfolios. On the same token, as the system's reach expands, the time to complete tasks such as responding to user requests could become longer.
- The user environment is primarily indoor and may involve both desktop and mobile usage. Condo owners and rental users may access the system from the comfort of their homes or on the go, emphasizing the need for a responsive and user-friendly interface.
- Currently, the CMS is designed to operate on both desktop and mobile platforms, ensuring accessibility for users across various devices. Future platform considerations may include updates for emerging technologies and changes in user preferences.
- Users within the condominium environment may be accustomed to using communication tools, document management systems, and financial software.

The CMS should be designed with the capability to integrate with these applications, streamlining user interactions and ensuring a seamless experience.

3.4. Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Accessible Information	High	Lack of transparency	Manual records	Centralized
Financial Transparency	High	Unclear financial status	Manual Tracking	Automated financial system
Efficient Requests	Medium	Delayed responses	Manual submission	Streamlined request process

3.5. Alternatives and Competition

Existing alternatives include manual condo management processes, potentially leading to inefficiencies and delays. Competitive alternatives may offer partial solutions but lack the comprehensive features proposed by the Condo Management System.

4. Product Overview

4.1. Product Perspective

The Condo Management System is an independent, self-contained product that integrates seamlessly with existing condo management practices. It provides a unified platform for users to manage profiles, financials, and property-related activities.

4.2. Assumptions and Dependencies

The successful implementation of the Condo Management System assumes the availability of stable system platforms, adherence to specified standards, and seamless integration with external applications. Dependencies include the timely provision of necessary information by stakeholders.

5. Product Features

5.1 Login / Sign In

Public Users (owners and rental users) will be able to create their own profile after providing a username, contact email, phone number with an option of adding a profile picture. Public

users can then be registered as a condo owner or a rental user by providing a registration key given by their condo management company. Users will be able to sign out and login using their credentials.

5.2 View Property Information

Users will be presented with a dashboard of their properties, including their general information. ex: personal profile, condo information, financial status, status of the submitted request, etc.

5.3 Manage Property under management

Condo Management companies shall create their own property profiles providing the system with property name, unit count, parking count, locker count, address. They shall also upload condo files for each property. Condo management companies shall enter detailed information for each condo unit, each parking spot, and each locker in a building. Condo management companies shall send registration keys to unit owners or rental users for their dedicated units. Such registration key shall be used by unit owners or rental users to link a condo unit with their profiles.

5.4 Financial System

The financial system is within the condo management system and it shall allow condo management companies to enter condo fee per square foot and per parking spot. It shall also calculates and presents the condo fees to each unit owner. The financial system shall records operational budget and prompts companies to enter the cost for each operation. Finally, it shall produce an annual report.

5.5 Reservation System

The condo management system shall contains a simplified reservation system. Condo management companies shall be able to set up common facilities that require reservations. Condo owners and rental users shall be able to reserve these common facilities.

5.6 Request System

Condo owners shall submit requests such as moving in/out, intercom changes, requesting access and so on. Each request shall be assigned to the appropriate employee.

5.7 Notification Page

All users shall have a notification page, where they can view the latest activities in their submitted or assigned requests.

6. Other Product Requirements

N/A