
SOFTWARE REQUIREMENTS SPECIFICATION

for

Condo Management System

Version 1.0

Prepared by Mhaisdhune, Trupti Vishnu
Peixoto Costa Neto, Mario
Yohannan, Blessy
Zhang, Xuezhu

Texas State University

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1 Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the Condo Management System, a system designed to manage clients, condos, tenants, units and debts and provide organized records of each tenant debts and emit notices for those debts. It will explain the functions that the manager will be able to access, the interfaces of the system, what the system will do, the constraints under which it must operate and how it will react to external stimuli. This document is intended for both users and developers of the system and will be submitted to the customer for approval.

1.2 Problem statement

A law office works as a representative of several condominium administration companies. These companies may have several hundreds tenants who rents their apartments and it's very common for those tenants to skip rental and administration payments of the condo. The administration company has its own information system, but the law office only receives a monthly report with the up-to-date debts for all condos and units.

The job of the law office is to look at the reports and find the tenants who are in debt for more than a certain time and notify them that they should contact the law office to settle their debts or expect to be sued. But having several companies as clients - each of them having several hundreds of tenants - can lead to a tremendous amount of labor, it's just not doable.

Each client will provide a monthly debt report with condo names, units in debt, tenants in debt, and debts information and the law office will use that report to import the data into the database.

Then, the system shall provide a screen to help the law office to easily find who's in debt, for how long they are in debt and how much they owe. That same interface shall allow the law office to choose the tenants to be notified. After choosing, the system shall generate all the notices and the envelope labels for mailing as PDFs.

After notifying the tenants, they may contact to negotiate a settlement or to pay the full amount. Then, the system shall provide a feature to mark those debts as paid.

2 Overall Description

2.1 Product Perspective

The Condo Management System is a new web-based application and does not depend or is a part of any other system. It has one actor: the manager. The manager needs a compatible web browser and internet access to access the system.

2.2 Software Interfaces

PostgreSQL will be used as a Database Management System for the Condo Management System.

Compatible web-browsers: Chrome, Firefox and Safari.

2.3 Product Functions

2.3.1 Create Client

Description

The manager creates a client (Condo Administration Company), entering information such as name, contact name, contact phone, address, default fine percentage and default interest percentage for late payment.

Rationale

This function will make the client available to the system in order to create the condominium managed by this client. That will be necessary to import the debts and keep an organized record.

UI wireframe

The wireframe depicts a web browser window titled "A Web Page". The address bar contains "http://". The main content area features a form titled "New Client" with the following fields: "Name", "Address", "Contact Name", "Contact Phone", "Fine %", and "Interest %". Each field is represented by a rectangular input box. A "Save" button is located at the bottom left of the form area. The browser window includes standard navigation icons (back, forward, stop, home) and a search icon in the top left corner, and a double-slash icon in the bottom right corner.

2.3.2 Edit Client

Description

The manager edits a client (Condo Administration Company), entering information such as name, contact name, contact phone, address, and default fine percentage and default interest percentage for late payment.

Rationale

This function will make possible to edit the client information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

The wireframe shows a web browser window titled "A Web Page". The address bar contains "http://". The main content area is titled "Edit Client" and contains the following form fields:

- Name: Condo Admin 1
- Address: 1327 University Blvd.
Round Rock, TX
82329
- Contact Name: ContactName
- Contact Phone: 212-433-3245
- Fine %: 2
- Interest %: 1

A "Save" button is located at the bottom left of the form area.

2.3.3 Remove Client

Description

The manager removes a client (Condo Administration Company) from the system.

Rationale

This function will make possible to remove the client from the system if the client decide to cancel the contract with the law firm. That's necessary to keep an organized record.

2.3.4 Create Condo

Description

The manager creates a condo, entering information such as name, address and chose the correct condo administration that manages it.

Rationale

This function will make the condo available to the system in order to create the units that belong to that condo. That will be necessary to import the debts and keep an organized record.

UI wireframe

A Web Page

Navigation icons: back, forward, close, home

Address bar: http://

Search icon: Q

New Condo

Name:

Address:

Client:

Save:

2.3.5 Edit Condo

Description

The manager edits a condo, entering information such as name, address and chose the correct condo administration that manages it.

Rationale

This function will make possible to edit the condo information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

The wireframe shows a web browser window titled "A Web Page". The address bar contains "http://". The main content area is titled "Edit Condo" and contains the following form elements:

- Name:** A text input field containing "Condo 1".
- Address:** A text input field containing "1327 University Blvd.", "Round Rock, TX", and "82329" on separate lines.
- Client:** A dropdown menu with "Condo Admin 1" selected.
- Save:** A button labeled "Save".

The browser window has a standard toolbar with back, forward, close, and home icons, and a status bar at the bottom right.

2.3.6 Remove Condo

Description

The manager removes a condo from the system.

Rationale

This function will make possible to remove the condo from the system whenever the client decides it won't manage the debts from that condo anymore. That's necessary to keep an organized record.

2.3.7 Create Unit

Description

The manager creates an unit, entering information such as number, building name, select the correct condo that it belongs to, and the current tenant .

Rationale

This function will make the unit available to the system in order to assign the tenants and debts for that unit. That will be necessary to keep an organized record.

UI wireframe

A Web Page

Navigation icons: back, forward, close, home

Address bar: http://

Form fields:

- New Unit
- Number
- Building Name
- Condo
- Tenant
-

2.3.8 Edit Unit

Description

The manager edits an unit, entering information such as number, building name, the correct condo that it belongs to, and the current tenant.

Rationale

This function will make possible to edit the unit information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

The wireframe shows a web browser window titled "A Web Page". The address bar contains "http://". The main content area is titled "Edit Unit" and contains the following form elements:

- Number:** A text input field containing the value "123".
- Building Name:** A text input field containing the value "Block 5".
- Condo:** A dropdown menu with "Condo 1" selected.
- Tenant:** A dropdown menu with "Tenant 1" selected.
- Save:** A button located below the dropdown menus.

2.3.9 Remove Unit

Description

The manager removes an unit from the system.

Rationale

This function will make possible to remove the unit from the system whenever the client decides it won't manage the debts from that unit anymore. That's necessary to keep an organized record.

2.3.10 Create Tenant

Description

The manager creates a tenant, entering information such as name, billing address, SSN, phone number.

Rationale

This function will make the tenant available to the system in order to manage his debts. That will be necessary to keep an organized record.

UI wireframe

A Web Page

Navigation icons: back, forward, close, home

Address bar: http://

Search icon

New Tenant

Name

SSN

Phone

Billing Address

Save

2.3.11 Edit Tenant

Description

The manager edits a tenant, entering information such as name, billing address, SSN, phone number.

Rationale

This function will make possible to edit the tenant information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

A Web Page

Navigation icons: back, forward, close, home, search

Address bar: http://

Form Title: Edit Tenant

Fields:

- Name: Tenant 1
- SSN: 212315354343
- Phone: 231-323-3212
- Billing Address: 1327 University Blvd.
Round Rock, TX
82329

Save button

2.3.12 Remove Tenant

Description

The manager removes a tenant from the system.

Rationale

This function will make possible to remove the tenant from the system whenever he's not needed anymore. That's necessary to keep an organized record.

2.3.13 Create Debt

Description

The manager creates a debt, entering information such as the unit in debt, description, original amount, due date, debt type (condo fee or extra fee).

Rationale

This function will make the debt available to the system in order to emit notices for it. That will be necessary to keep an organized record.

UI wireframe

A Web Page

← → × ↶ http:// 🔍

New Debt

Unit

Description

Original Amount

Due Date

Debt Type

- Rent
- Condo Fee
- Extra Fee

2.3.14 Edit Debt

Description

The manager edit a debt, entering information such as the unit in debt, description, original amount, due date, debt type (condo fee or extra fee).

Rationale

This function will make possible to edit the debt information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

A Web Page

Navigation icons: back, forward, close, home, search

Address bar: http://

Form fields:

- Unit: Unit 1 (dropdown)
- Description: Rent for February/2017
- Original Amount: 1300
- Due Date: 02-10-2017
- Debt Type: Rent (dropdown menu open showing Condo Fee, Extra Fee)
- Save button

2.3.15 Remove Debt

Description

The manager removes a debt from the system.

Rationale

This function will make possible to remove the debt from the system whenever it's not needed anymore or was incorrectly inserted in the system. That's necessary to keep an organized record.

2.3.16 Create Notice

Description

The manager creates a notice, entering information such as the tenant that needs to be notified and for which debts they are being notified.

Rationale

This function will make the notice available to the system in order to create the notice to be printed together with the envelope labels. That will be necessary to keep an organized record.

UI wireframe

A Web Page

← → × ↗ http:// 🔍

New Notice

Tenant Tenant 1 ▾

Debts ☐ Unit 1 - Rent for February/2017
☒ Unit 2 - Rent for January/2017
☒ Unit 2 - Rent for December/2016

Save

2.3.17 Edit Notice

Description

The manager edits a notice, entering information such as the tenant that needs to be notified and for which debts they are being notified.

Rationale

This function will make possible to edit the notice information whenever the data's changed or it was entered incorrectly. That's necessary to keep an organized record.

UI wireframe

A Web Page

← → × ↗ http:// 🔍

Edit Notice

Tenant Tenant 1 ▾

Debts ☒ Unit 1 - Rent for February/2017
☐ Unit 2 - Rent for January/2017
☒ Unit 2 - Rent for December/2016

Save

2.3.18 Remove Notice

Description

The manager removes a notice from the system.

Rationale

This function will make possible to remove the notice from the system whenever it's not needed anymore or was incorrectly inserted in the system. That's necessary to keep an organized record.

2.3.19 Import Monthly Report

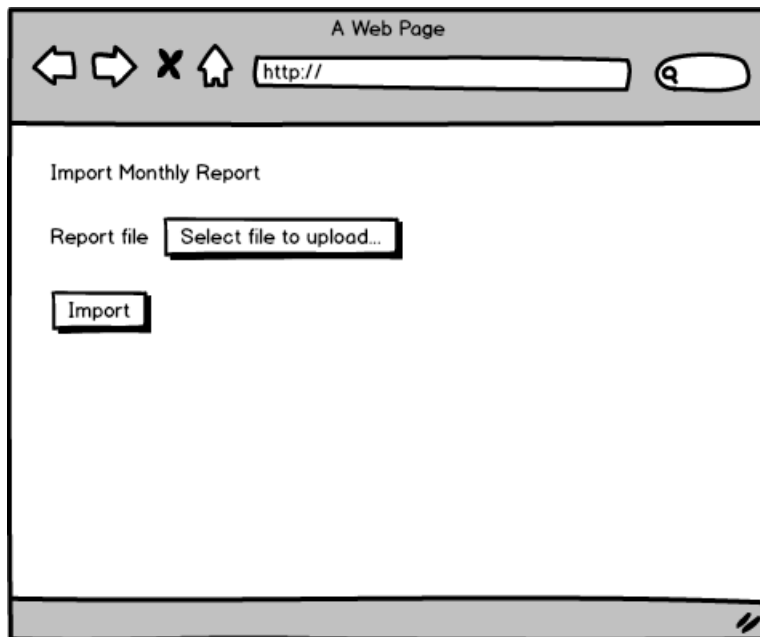
Description

The manager imports the monthly debt report provided by each client. The report contains the expanded outstanding debt for each unit for all condos managed by the client (Condo Administration Company).

Rationale

This function will make possible to import the monthly report data into the system in order to reconcile the system data with the outstanding debts and provide the option to emit notices for those debts.

UI wireframe



3 Other Nonfunctional Requirements

3.1 Performance Requirements

The system response time shall not exceed 10 seconds for any user interaction event.

3.2 Reliability Requirements

The application's mean time between failures shall be at least 1 month.

3.3 Robustness Requirements

The application shall provide a meaningful error message and continue to operate properly when a human user provides incorrect inputs.

3.4 Maintainability Requirements

The average person-time required to make a minor enhancement (including testing and documentation update) shall not exceed one person week.

3.5 Usability Requirements

The application's user interface shall be clear to its users. Specifically, at least 70% of a statistically valid sample of users shall rate the overall user interface as being either very clear or clear on the following scale (very clear, clear, neutral, unclear, very unclear).

4 Constraints

4.1 Design

The performance of the system depends on the underlying server and the database system. Web page scaling depends on the device and the browser used.

4.2 Implementation

The system functionality depends on the ability to reliably transfer data over an active Internet connection. If the connection has high latency or bandwidth issues then the response time may be slower than desired.

Bibliography

- [1] “Ieee recommended practice for software requirements specifications,” *IEEE Std 830-1998*, 1998.