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CMPSC 487W

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Project 3 Screenshots

Tenant:

FR1: A tenant must be able to submit a maintenance request. A request consists of the following information: request ID, apartment number, the area of the problem (e.g., kitchen, bathroom), a brief description of the problem (e.g. bathtub drain gets stuck, AC does not work), the date and time of the request, an optional photo, and the status of the request (e.g., pending, completed). You may assume:

- A tenant may not rent more than one apartment at a time.
- A tenant can only request the maintenance of their apartment.
- A request can only contain one problem. If there is more than one problem, the tenant must submit separate requests.
- A request can have at most one photo.
- The request ID and the date/time are automatically generated.
- The status of a request is initially 'pending', and is updated to 'completed' by a staff member.

General Screenshot showing all the functionality listed below:

Welcome to the Maintenance Request System

Submit your maintenance request below:

Apartment Number:

Problem Area:

Problem Description:

Optional Photo URL:

Submit Request

Note: These input fields follow the constraints above, also the request ID and date/time is generated once the tenant submits the request. The status is also pending, until switched to completed by a staff. (Example shown on next page)

Example request:

Welcome to the Maintenance Request System

Submit your maintenance request below:

Apartment Number:

3456878

Problem Area:

Countertop broken

Problem Description:

The countertop is broken, I noticed that the seal was weakened , and not properly maintained yearly.

Optional Photo URL:

https://th.bing.com/th/id/OIP.7SjVAFYH6pXmAl5hIPES0gHaEK?rs=1&pid=ImgDetMain

[Submit Request]

Request ID: 3eb809e0
Apartment Number: 3456878
Problem Area: Countertop broken
Problem Description: The countertop is broken, I noticed that the seal was weakened , and not properly maintained yearly.
Date/Time: 2023-12-06 16:28:12

Photo:
Status: pending

*Right now it says pending, because a staff has not completed it and switched it to 'completed'

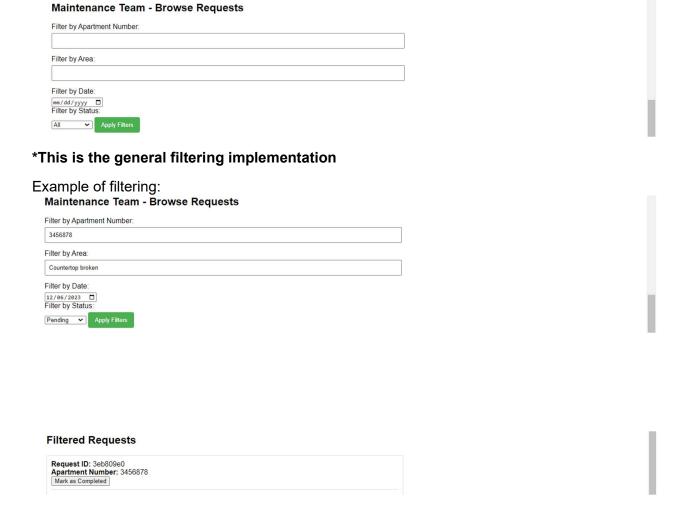
Maintenance staff:

FR2: A staff member must be able to browse all maintenance requests, with a variety of filters: by apartment number, by area (like kitchen), by date range, and by status.

FR3: A staff member must be able to update the status of a selected request, from 'pending' to 'completed'.

You may assume that a staff member cannot edit anything else of a request and cannot delete a request.

General Screenshot of the implementation

Maintenance Team - Browse Requests

Filter by Apartment Number:

Filter by Area:

Filter by Date:
mm/dd/yyyy
Filter by Status:
All   Apply Filters

*This is the general filtering implementation

Example of filtering:

Maintenance Team - Browse Requests

Filter by Apartment Number:
3456878

Filter by Area:
Countertop broken

Filter by Date:
12/06/2023
Filter by Status:
Pending   Apply Filters

Filtered Requests

Request ID: 3eb809e0
Apartment Number: 3456878
Mark as Completed

Then if I were to click mark as completed, then.. (Shown on next page)

Request ID: 3eb809e0
Apartment Number: 3456878
Problem Area: Countertop broken
Problem Description: The countertop is broken, I noticed that the seal was weakened , and not properly maintained yearly.
Date/Time: 2023-12-06 16:28:12

Photo:
Status: completed

Now we can see the status has successfully changed

Manager:

FR4: A manager must be able to add a new tenant, move a tenant to another apartment, and delete a tenant. A tenant account consists of the following information: tenant ID, name, phone number, email, date of check-in, date of check-out, and an apartment number. You may assume that this system does not handle rent payments. So, there's no information about payments.

General implementation screenshot:

Manager Section

Add Tenant

Tenant Name:

Phone Number:

Email:

Check-In Date:
mm/dd/yyyy

Apartment Number:

[Add Tenant]

Move Tenant

Tenant ID:

New Apartment Number:

[Move Tenant]

Delete Tenant

Tenant ID:

[Delete Tenant]

Current Tenants

Add tenant screenshot example:

Add Tenant

Tenant Name:

John Doe

Phone Number:

111-111-1111

Email:
john@gmail.com
Check-In Date:
12/06/2023
Apartment Number:

123

Add Tenant

Current Tenants

Tenant ID: bbddbc23
Name: John Doe
Phone: 111-111-1111
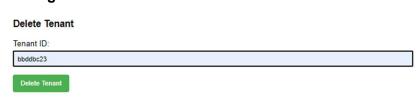Email: john@gmail.com
Check-In Date: 2023-12-06
Apartment Number: 123

Move Tenant to another apartment screenshot example: (moved 123 to 456)

Move Tenant

Tenant ID:

bbddbc23

New Apartment Number:

456

Move Tenant

Current Tenants

Tenant ID: bbddbc23
Name: John Doe
Phone: 111-111-1111
Email: john@gmail.com
Check-In Date: 2023-12-06
Apartment Number: 456

Deleting a Tenant:

Delete Tenant

Tenant ID:

bbddbc23

Delete Tenant

Current Tenants

*Now it is empty