

CMPSC 487W, Project 3
Japheth Beiler, 9 December 2023

Here is a quick walkthrough of the functionalities of my project.

Here is my “Tenant” SQL Server database table:

	tenant_id	name	phone_number	email	apartment_nu...	check_in_date	check_out_date
	2	Zach Wilson	943-555-2395	zachbyu@temp....	0	9/1/2023 12:00:...	1/31/2024 12:0...
	3	H. P. Lovecraft	2549874454	scarytimes@de...	1	12/1/2023 12:0...	6/30/2024 12:0...
	4	Dagon Codd	347-998-3421	moatcailin@the...	2	11/14/2023 12:...	12/24/2023 12:...
▶*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

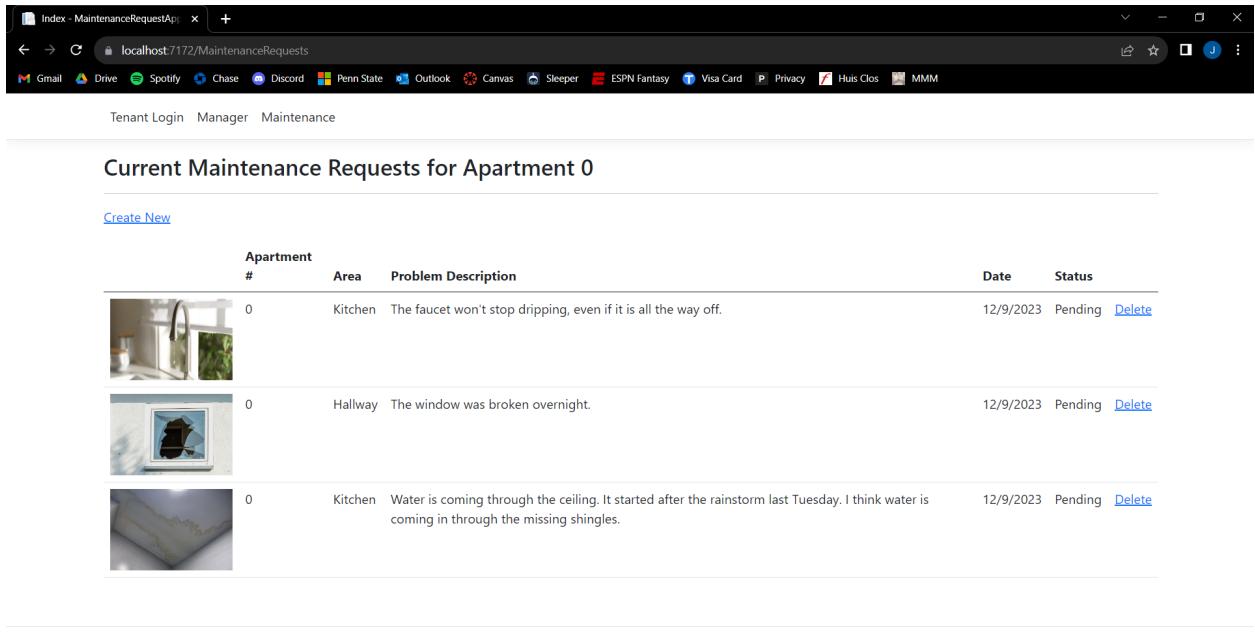
Here is my “MaintenanceRequest” SQL Server database table:

	maintenance_r...	image_data	image_file_na...	image_content...	apartment_nu...	room	description	date	status
	11	NULL	NULL	NULL	2	Porch	The light bulb o...	12/8/2023 12:0...	Completed
	21	0x89504E470D0...	leakyfaucet.PNG	image/png	0	Kitchen	The faucet won'...	12/9/2023 12:0...	Pending
	22	0x89504E470D0...	brokenwindow....	image/png	0	Hallway	The window wa...	12/9/2023 12:0...	Pending
	24	NULL	NULL	NULL	1	Bathroom	The toilet keeps...	12/9/2023 12:0...	Completed
	25	0x89504E470D0...	wetceiling.PNG	image/png	0	Kitchen	Water is comin...	12/9/2023 12:0...	Pending
	26	NULL	NULL	NULL	2	Porch	The township is ...	12/9/2023 12:0...	Pending
▶*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Here is the website’s home page. It allows a tenant to login using their apartment number, or a manager or maintenance team member to access their pages using the links at the top. For a project with more requirements, login verification would no doubt be a good idea.

The screenshot shows a web browser window titled "Home page - MaintenanceReq". The address bar displays "localhost:7172". The page header includes links for "Tenant Login", "Manager", and "Maintenance". The main content area contains a form with a text input field labeled "Enter your apartment number:" and a blue "Login" button below it. At the bottom of the page, there is a copyright notice: "© 2023 - Ugluk Design".

This is the first screen a tenant sees. Notice how only a tenant's own maintenance requests are displayed.

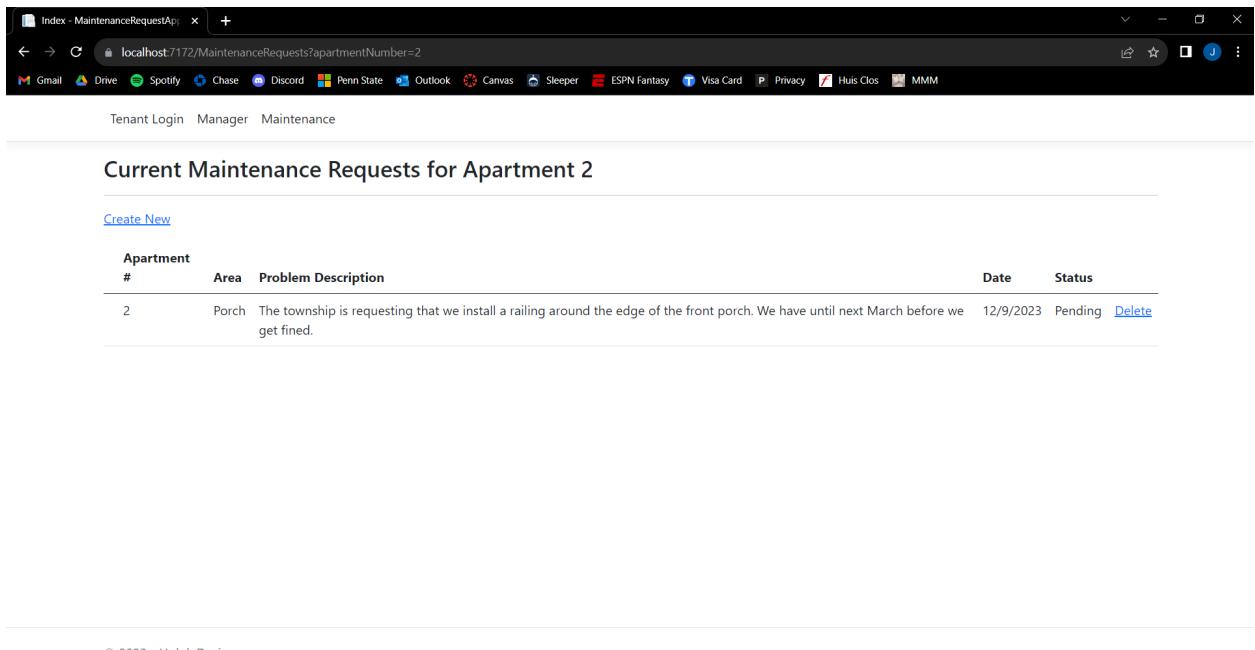


A screenshot of a web browser window titled "Index - MaintenanceRequestApp". The address bar shows "localhost:7172/MaintenanceRequests". The page header includes links for "Tenant Login", "Manager", and "Maintenance". Below the header, the title "Current Maintenance Requests for Apartment 0" is displayed, followed by a "Create New" link. A table lists three maintenance requests:

Apartment #	Area	Problem Description	Date	Status
0	Kitchen	The faucet won't stop dripping, even if it is all the way off.	12/9/2023	Pending Delete
0	Hallway	The window was broken overnight.	12/9/2023	Pending Delete
0	Kitchen	Water is coming through the ceiling. It started after the rainstorm last Tuesday. I think water is coming in through the missing shingles.	12/9/2023	Pending Delete

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Here is the first screen for another tenant. Notice how only "Pending" maintenance requests are seen. This tenant has another request that is "Completed".



A screenshot of a web browser window titled "Index - MaintenanceRequestApp". The address bar shows "localhost:7172/MaintenanceRequests?apartmentNumber=2". The page header includes links for "Tenant Login", "Manager", and "Maintenance". Below the header, the title "Current Maintenance Requests for Apartment 2" is displayed, followed by a "Create New" link. A table lists one maintenance request:

Apartment #	Area	Problem Description	Date	Status
2	Porch	The township is requesting that we install a railing around the edge of the front porch. We have until next March before we get fined.	12/9/2023	Pending Delete

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A tenant can create a new maintenance request.

The screenshot shows a web browser window titled 'Create - MaintenanceRequestAp'. The address bar displays 'localhost:7172/MaintenanceRequests/Create?apartmentNumber=2'. The page header includes links for 'Tenant Login', 'Manager', and 'Maintenance'. The main content area is titled 'Create New Maintenance Request for Apartment 0'. It contains three input fields: 'Area' (empty), 'Problem Description' (empty), and 'Upload Photo' (with a 'Choose File' button and a message 'No file chosen'). At the bottom are two buttons: a blue 'Create' button and a link 'Back to List'.

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And they can delete a maintenance request.

The screenshot shows a web browser window titled 'Delete - MaintenanceRequestAp'. The address bar displays 'localhost:7172/MaintenanceRequests/Delete?id=26'. The page header includes links for 'Tenant Login', 'Manager', and 'Maintenance'. The main content area is titled 'Delete Maintenance Request'. It displays the following details for a maintenance request:

- Image:** No Image Available
- Apartment #**: 2
- Area**: Porch
- Problem Description**: The township is requesting that we install a railing around the edge of the front porch. We have until next March before we get fined.
- Date**: 12/9/2023
- Status**: Pending

At the bottom are two buttons: a red 'Delete' button and a link 'Back to List'.

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Here is the first screen for a maintenance team member:

The screenshot shows a web browser window titled "Index - MaintenanceRequestApp". The address bar says "localhost:7172/MaintenanceMember". The page has a header with "Tenant Login" and "Manager" buttons, and a "Maintenance" link. Below the header is a section titled "Maintenance Requests" with three search buttons: "Search by Apartment #", "Search by Area", and "Search by Status". There are also three date range buttons: "Start (MM/DD/YYYY)", "End (MM/DD/YYYY)", and "Search by Date Range". The main content is a table of maintenance requests:

Apartment #	Area	Problem Description	Date	Status	Action
2	Porch	The light bulb on the back porch has been flickering on and off. I think there is a loose connection somewhere.	12/8/2023	Completed	Edit
0	Kitchen	The faucet won't stop dripping, even if it is all the way off.	12/9/2023	Pending	Edit
0	Hallway	The window was broken overnight.	12/9/2023	Pending	Edit
1	Bathroom	The toilet keeps running through.	12/9/2023	Completed	Edit

A maintenance team member can sort the maintenance requests by apartment number

The screenshot shows a web browser window with the same URL as the previous one, but with a query parameter "?ApartmentNumberSearchString=2". The page structure is identical to the first screenshot, with the "Search by Apartment #" button being active. The table now only shows requests for apartment 2:

Apartment #	Area	Problem Description	Date	Status	Action
2	Porch	The light bulb on the back porch has been flickering on and off. I think there is a loose connection somewhere.	12/8/2023	Completed	Edit
2	Porch	The township is requesting that we install a railing around the edge of the front porch. We have until next March before we get fined.	12/9/2023	Pending	Edit

They can sort by area.

Screenshot of a web browser showing maintenance requests for the "kitchen" area. The search bar at the top contains "kitchen". Below the search bar is a table of maintenance requests.

Apartment #	Area	Problem Description	Date	Status	Action
0	Kitchen	The faucet won't stop dripping, even if it is all the way off.	12/9/2023	Pending	Edit
0	Kitchen	Water is coming through the ceiling. It started after the rainstorm last Tuesday. I think water is coming in through the missing shingles.	12/9/2023	Pending	Edit

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They can sort by status.

Screenshot of a web browser showing maintenance requests for the "pending" status. The search bar at the top contains "pending". Below the search bar is a table of maintenance requests.

Apartment #	Area	Problem Description	Date	Status	Action
0	Kitchen	The faucet won't stop dripping, even if it is all the way off.	12/9/2023	Pending	Edit
0	Hallway	The window was broken overnight.	12/9/2023	Pending	Edit
0	Kitchen	Water is coming through the ceiling. It started after the rainstorm last Tuesday. I think water is coming in through the missing shingles.	12/9/2023	Pending	Edit

They can sort by date range.

Maintenance Requests

Search by Apartment # Search

Search by Area Search

Search by Status Search

12/5/2023 12/8/23

Apartment #	Area	Problem Description	Date	Status	Action
2	Porch	The light bulb on the back porch has been flickering on and off. I think there is a loose connection somewhere.	12/8/2023	Completed	Edit

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And they can edit a maintenance request. Notice that only the status is editable.

Edit Request Status

Apartment #
0

Area
Kitchen

Problem Description
The faucet won't stop dripping, even if it is all the way off.

Date
12/09/2023

Status
Pending

[Save](#) | [Back to List](#)

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This is the first page for a manager:

Name	Phone Number	Email	Apartment #	Check In	Check Out
Zach Wilson	943-555-2395	zachbyu@temp.com	0	9/1/2023	1/31/2024
H. P. Lovecraft	2549874454	scarytimes@deepones.net	1	12/1/2023	6/30/2024
Dagon Codd	347-998-3421	moatcailin@theneck.org	2	11/14/2023	12/24/2023

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A manager can add a new tenant.

Create New Tenant

Name

Phone Number

Email

Apartment #

Check In
 mm/dd/yyyy

Check Out
 mm/dd/yyyy

[Create](#) | [Back to List](#)

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They can edit an existing tenant.

Edit - MaintenanceRequestApp

localhost:7172/Tenants/Edit?id=3

Tenant Login Manager Maintenance

Edit Tenant Information

Name
H. P. Lovecraft

Phone Number
2549874454

Email
scarytimes@deepones.net

Apartment #
1

Check In
12/01/2023

Check Out
06/30/2024

[Save](#) | [Back to List](#)

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And they can delete an existing tenant.

Delete - MaintenanceRequestApp

localhost:7172/Tenants/Delete?id=3

Tenant Login Manager Maintenance

Delete Tenant

Name	Dagon Codd
Phone Number	347-998-3421
Email	moatcailln@theneck.org
Apartment #	2
Check In	11/14/2023
Check Out	12/24/2023

[Delete](#) | [Back to List](#)

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This is the end of the walkthrough.