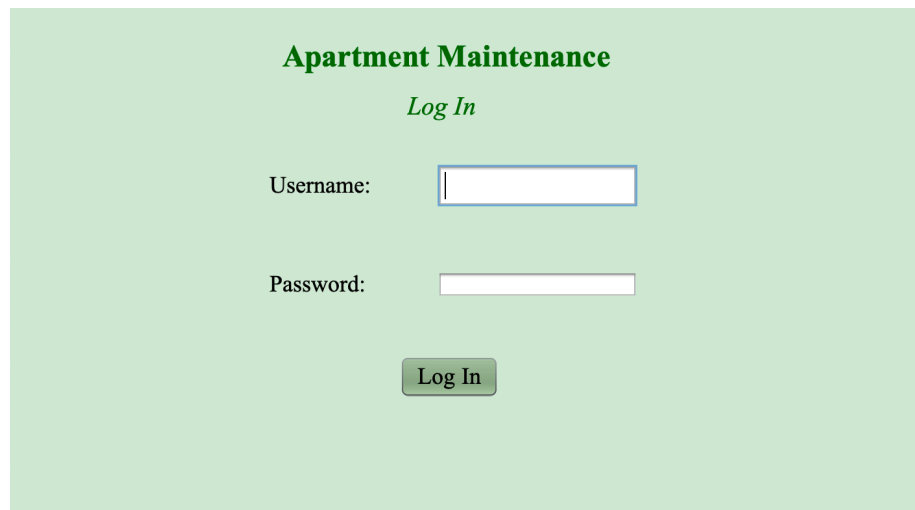# Apartment Maintenance - Implementation

IMPORTANT NOTE:
The password for the database is CMPSC487.
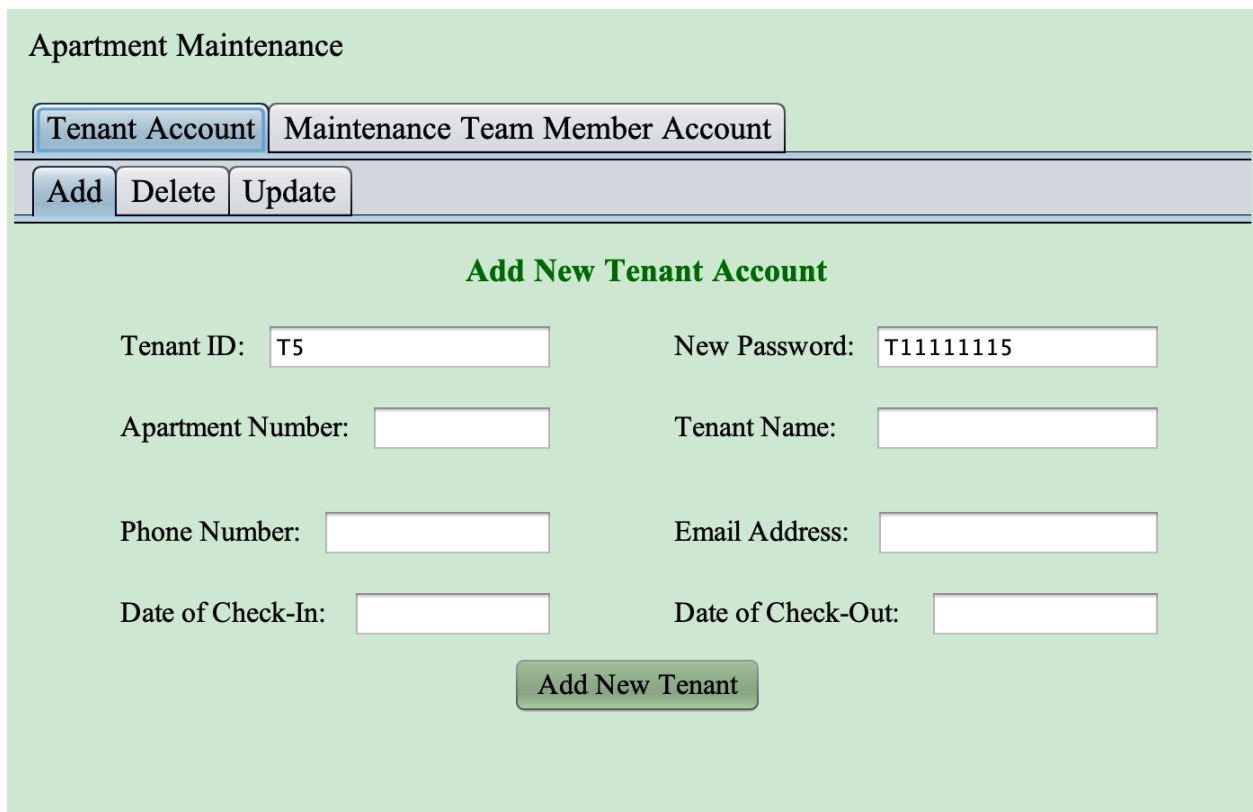
The Log In screen will be displayed upon activation.

Apartment Maintenance

Log In

Username: [   ]

Password: [   ]

[Log In]

Manager Account

To Log In as a Manager the Username is "M" and the password is "123456789". Once the manager clicks the "Log In" button, the Manager Interface will be displayed.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Add New Tenant Account

Tenant ID: [T5]   New Password: [T11111115]

Apartment Number: [   ]   Tenant Name: [   ]

Phone Number: [   ]   Email Address: [   ]

Date of Check-In: [   ]   Date of Check-Out: [   ]

[Add New Tenant]

Add a Tenant

To add a Tenant Account, the Manager must navigate to the "Add" tab of the "Tenant Account" tab. The Tenant ID (also the tenant's username) and the new tenant's password is automatically generated. All the other information must be filled in by the Manager. All fields must be filled out, or a message will display saying "All fields must be completed".

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

Add | Delete | Update

Add New Tenant Account

Tenant ID: `T5`   New Password: `T11111115`

Apartment Number: [ ]   Tenant Name: [ ]

Phone Number: [ ]   Email Address: [ ]

Date of Check-In: [ ]   Date of Check-Out: [ ]

All fields must be completed

Add New Tenant

Once all the fields are completed, the Manager must click the "Add New Tenant" button. Once clicked, a message confirms the tenant has been added, and the fields reset automatically.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

Add | Delete | Update

Add New Tenant Account

Tenant ID: `T6`   New Password: `T11111116`

Apartment Number: [ ]   Tenant Name: [ ]

Phone Number: [ ]   Email Address: [ ]

Date of Check-In: [ ]   Date of Check-Out: [ ]

Jonas Grumby has been added as a new tenant

Add New Tenant

Delete a Tenant

To delete a tenant, navigate to the "Delete" tab of the "Tenant Account" tab. The following is displayed.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Delete Tenant Account

Tenant ID: - Select One - ▼

Delete Account

The Manager must select the Tenant ID that is to be deleted from the dropdown box. Once the Manager chooses a Tenant ID, a message providing the name of the tenant will display.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Delete Tenant Account

Tenant ID: T5 ▼

Tenant Name: Jonas Grumby

Delete Account

When the Manager is ready to delete the account, the Manager must click the "Delete Account" button. Once clicked, a message will display, saying the tenant's account has been deleted. The dropdown box updates automatically.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Delete Tenant Account

Tenant ID: - Select One - ▼

Tenant Jonas Grumby's account has been deleted

Delete Account

Update a Tenant

To update the apartment number of a tenant, the Manager must navigate to the "Update" tab of the "Tenant Account" tab. The following will be displayed.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Update Tenant Account

Tenant ID: - Select One - ▼   New Apartment Number: [   ]

Update Account

The Manager must choose the Tenant ID of the tenant who is moving to another apartment from the dropdown box. Once selected, a message will display with the name of the tenant. The Manager must input the apartment number the tenant is moving to in the "New Apartment Number" text field. The Manager must click the "Update Account" button to update the account.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Update Tenant Account

Tenant ID: T1   ▼   New Apartment Number: [   ]

Tenant Name: Ginger Grant   Apartment number changed from 1 to 5.

Update Account

A message displays, listing the tenant's original apartment number and the new apartment number. If the Manager types a currently occupied apartment number in the "New Apartment Number" a message will inform the Manager, and the system will not allow the switch.

Apartment Maintenance

| Tenant Account | Maintenance Team Member Account |

| Add | Delete | Update |

Update Tenant Account

Tenant ID: [T2 ▼]   New Apartment Number: [   ]

Tenant Name: Mary Ann Summers   This apartment is not empty.

[Update Account]

Add a Maintenance Team Member
To add a Maintenance Team Member account, the Manager must navigate to the "Maintenance Team Member Account" tab, then the "Add" tab. The following will be displayed.

Apartment Maintenance

Tenant Account	Maintenance Team Member Account

Add	Delete

Add Maintenance Team Member Account

Team Member ID: M3   Team Member Name:

Phone Number: Email Address:

Password: M11111113

Add Account

Similar to adding a Tenant Account, the Team Member ID (username) and password are automatically generated. Again, similar to adding a Tenant Account, all fields must be completed or a message will inform the Manager. Once all the fields are filled, the Manager must click "Add Account" to add a Team Member Account. Once clicked, a message confirming the Team Member was added will be displayed.

Apartment Maintenance

Tenant Account	Maintenance Team Member Account

Add	Delete

Add Maintenance Team Member Account

Team Member ID: M4   Team Member Name:

Phone Number: Email Address:

Password: M11111114

Alfred Bellows has been added as a new team member

Add Account

Delete a Maintenance Team Member Account
To delete a Maintenance Team Member the Manager must navigate to the "Delete" tab of the "Maintenance Team Member Account" tab. The following will be displayed.

Apartment Maintenance

Tenant Account | Maintenance Team Member Account

Add | Delete

Delete Maintenance Team Member Account

Team Member ID: - Select One - ▼

Delete Account

The functionality is the same as deleting a Tenant Account. To delete an account, the Manager must select a Team Member ID and click the "Delete Account" button to delete the account.

Tenant Account

To Log In as a Tenant, the tenant must use their Tenant ID as their username, and their assigned password as the password. Upon Log In the following will be displayed.

Apartment Maintenance	Tenant ID: T1

Request Form | Requests Status

Request Form

Tenant Name: Ginger Grant   Apartment Number: 5

Request ID: R7   Status: Pending

Brief Description:

Area of Problem:

Image: (optional)   No Image

Upload Image

Submit

The information contained in the gray boxes is automatically generated. Additionally, the tenant's ID is located in the top right corner.

Make a Request

Upon Log In, the Tenant sees the "Request Form". The request ID is automatically generated and the status is set to "Pending". To submit a form. The Tenant must type a brief description of their maintenance issue and the area of the problem. The Tenant may submit an image if they wish, but is not a necessary field. To upload an image, the Tenant must click "Upload Image" and select an image from their files.

<div>

Request Form

Tenant Name: Ginger Grant   Apartment Number: 5

Request ID: R7   Status: Pending

Brief Description: Description must be under 50 characters   Area of Problem: Living Room

Image: (optional)   No Image

Upload Image

Submit

</div>

If the tenant types a description that is too long, then the request will not be submitted, and will display a message telling the Tenant the description must be less than 50 characters. The Tenant must click "Submit" to submit a request. Once submitted, the fields will be reset, and the request ID will be updated.

Requests Status

To view all Requests the Tenant has sent, the Tenant must navigate to the "Requests Status" tab. Here a list of Requests and their information is displayed for the Tenant.

Apartment Maintenance			Tenant ID: T1

Request Form	Requests Status

Requests Status

Request ID	Timestamp	Status	Brief Description
R1	2024-11-04 21:19:4...	Completed	The garbage disposal i...
R2	2024-11-04 21:19:4...	Pending	The sink is leaking.
R7	2024-11-04 21:19:4...	Pending	Lightbulb needs to be ...

Maintenance Team Member Account

To Log In as a Maintenance Team Member, the Team Member must use their Team Member ID as their username and their assigned password as the password. Upon Log In, the following will be displayed.

Apartment Maintenance	Team Member ID: M1

All Requests   Selected Request:

Filter By: - Select One - ▼   - Select One - ▼

Request ID	Apartment Number	Area	Timestamp	Status
R1	1	Kitchen	2024–11–03 19:2…	Completed
R2	1	Bathroom	2024–11–03 19:2…	Pending
R3	2	Living Room	2024–11–03 19:2…	Pending
R4	3	Living Room	2024–11–03 19:2…	Pending
R5	4	Living Room	2024–11–03 19:2…	Pending
R6	4	Kitchen	2024–11–03 19:2…	Pending
R7	5	Living Room	2024–11–04 21:1…	Pending

View Request Details

The Team Member ID is displayed in the upper right corner. Here, the Team Member can see all requests sent by all Tenants. To view all the information of a request, the Team Member must click the row corresponding to the request they would like to view. Once clicked, more details about the Request will appear.

All the information is generated. In the example, the request has an image. If a request has no image, then the gray box will appear with a message saying "No Image".

Mark Request as Completed

To mark a request as completed, the Team Member must view request details, by clicking a request from the table. To mark a request as completed, the Team Member must click the "Mark as Completed" button. Once clicked, the "Status" will be updated from "Pending" to "Completed".

Request ID: R7   Mark As Completed

Apartment Number: 5   Status: Completed

Tenant ID: T1   Timestamp: 2024-11-04 21:19:40.171
Area: Living Room

Brief Description:

    Lightbulb needs to be changed.

Image:

Exit

To return to the list of requests, the Team Member must click the "Exit" button.

Filter Requests

There are four "Filter By" choices in the dropdown box. "Apartment Number", "Area", "Date Range", and "Status". If "Apartment Number" is selected, the second dropdown box fills with all apartment numbers that have requests in the table. Once a choice is selected from the second dropdown box, the table will only display requests from that apartment.

Apartment Maintenance			Team Member ID: M1

All Requests   Selected Request: R2

Filter By: [Apartment Number ▼] [4 ▼]

Request ID	Apartment Number	Area	Timestamp	Status
R5	4	Living Room	2024–11–03 19:2...	Pending
R6	4	Kitchen	2024–11–03 19:2...	Pending

If "Area" is selected, the second dropdown box fills with all the different areas listed in the table. Once a choice is selected, only choices from that area will be displayed in the table. If "Status" is selected, the second dropdown box will fill with "Pending" and "Completed". Selecting "Pending" will display all "Pending" requests, while selecting "Completed" will display all the "Completed" requests.

If "Date Range" is selected, the following will be displayed.

Apartment Maintenance			Team Member ID: M1	

All Requests   Selected Request:

Filter By: [Date Range ▼]

From: [MM/DD/YYYY]   To: [MM/DD/YYYY]   [Filter]

Request ID	Apartment Number	Area	Timestamp	Status
R1	1	Kitchen	2024-11-03 19:2...	Completed
R2	1	Bathroom	2024-11-03 19:2...	Pending
R3	2	Living Room	2024-11-03 19:2...	Pending
R4	3	Living Room	2024-11-03 19:2...	Pending
R5	4	Living Room	2024-11-03 19:2...	Pending
R6	4	Kitchen	2024-11-03 19:2...	Pending
R7	5	Living Room	2024-11-04 21:1...	Completed

The "From" and "To" text fields are filled with the required formatting for the date. Once a text field is clicked, the required formatting will disappear. If an incorrect format is inputted, the text fields will reset themselves with the required formatting. Once accepted dates are inputted, the Team Manager must click the "Filter" button. The table will then fill with all requests made in the time range.

Note:
The system can be extended in the future to allow users to choose their own username and password. The system can also be extended in the future to be more secure.