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Cmpsc 487

Maintenance Request Web App

Frontend:
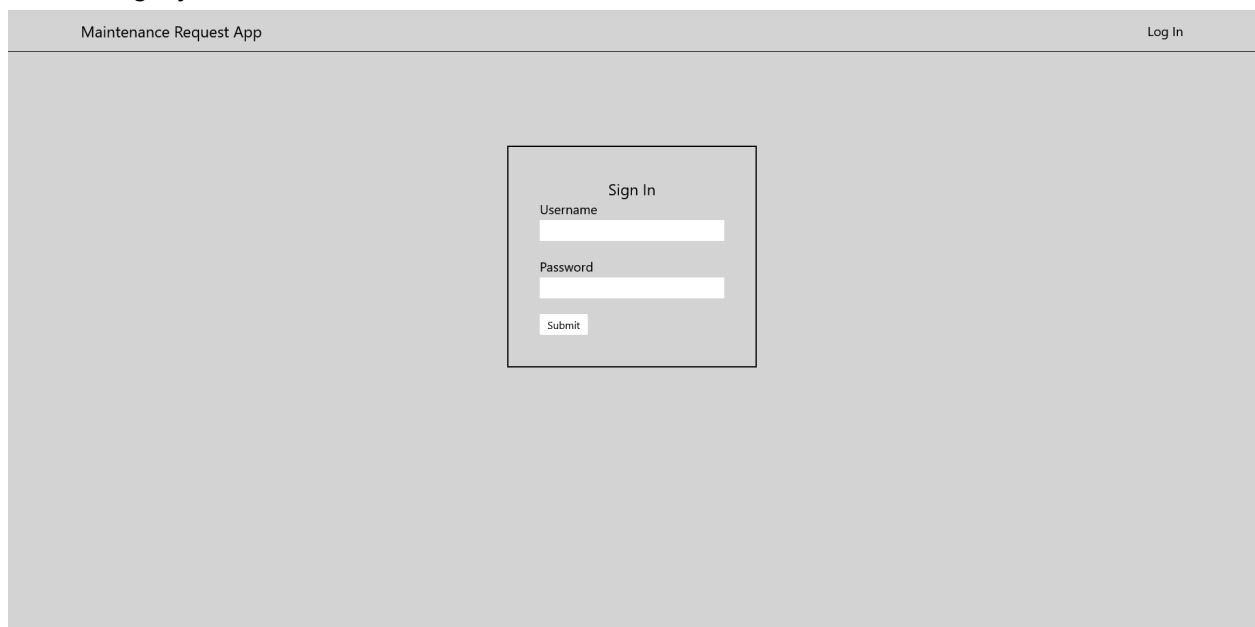
Pages:

A. Home Page

Maintenance Request App	Log In
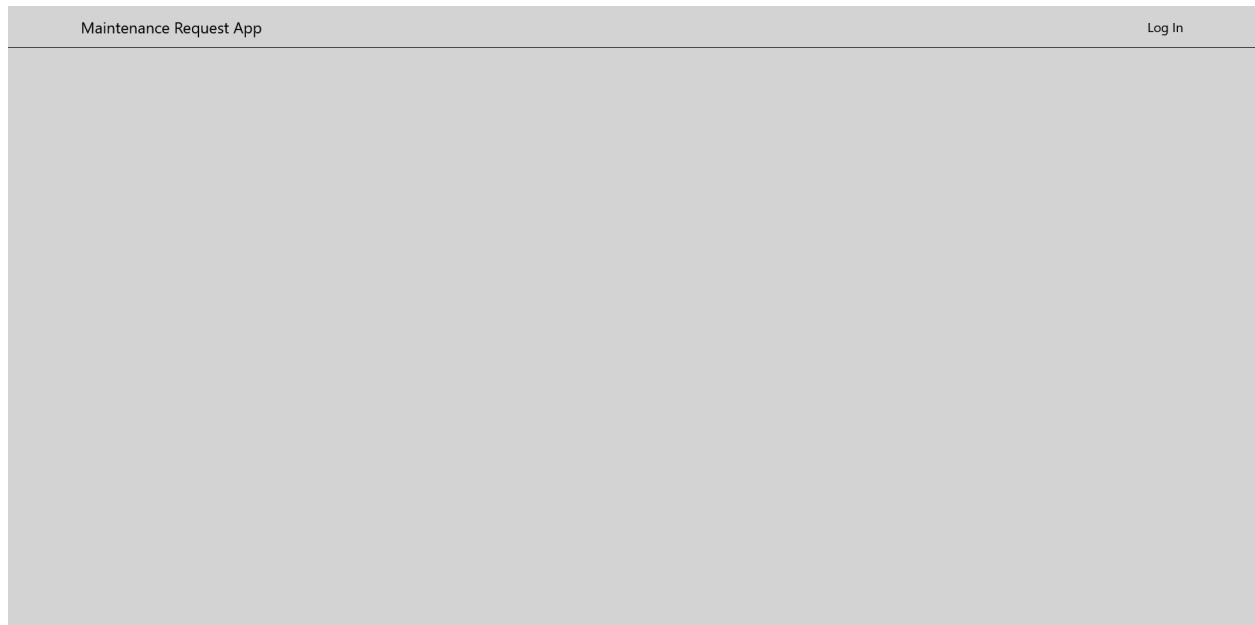
Home page at: localhost:8080/

B. Login.js

Maintenance Request App	Log In

Sign In

Username

Password

Submit

After clicking on the Log In button in the top right, you are taken to the login screen

Maintenance Request App | Log In

Sign In

Username

Password

Submit

Username or Password incorrect

Error after entering incorrect information

C. Admin.js
Logging in as the admin takes you to the localhost:8080/admin page, the page has 5 tabs, and begins on the add tenant tab. The 5 tabs are Add Tenant, Edit Tenant, Del Tenant, Add Staff and Del Staff.

I. Add Tenant

user_id	username	password	type
1	admin	password	admin
2	staff1	passs1	staff
3	staff2	passs2	staff
4	tenant1	passt1	tenant
5	tenant2	passt2	tenant
9	tenant4	passt4	tenant
NULL	NULL	NULL	NULL

Users Table before Add Tenant

user_id	name	phone	email	apartment	check_in	check_out
4	John Smith	111 222 3333	js@email.com	105	2023-11-20 16:32:57	NULL
5	Tim	100 220 3030	tim@email.com	208	2023-11-20 16:33:06	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Tenants table before Add Tenant

The admin enters in the information for the new tenant. Username: tenant5, password: passt5, name: John Tenant, apartment: 106 ,phone: 123 123 1234, email: JohnT@email.com

user_id	username	password	type
1	admin	password	admin
2	staff1	passs1	staff
3	staff2	passs2	staff
4	tenant1	passt1	tenant
5	tenant2	passt2	tenant
9	tenant4	passt4	tenant
12	tenant5	passt5	tenant
NULL	NULL	NULL	NULL

Users table after Add Tenant

user_id	name	phone	email	apartment	check_in	check_out
4	John Smith	111 222 3333	js@email.com	105	2023-11-20 16:32:57	NULL
5	Tim	100 220 3030	tim@email.com	208	2023-11-20 16:33:06	NULL
12	John Tenant	123 123 1234	JohnT@email.com	106	2023-12-09 19:59:16	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Tenants table after Add Tenant

II. Edit Tenant

Log out

Admin

Add Tenant   Delete Tenant   Add Staff   Delete Staff

Edit Tenant

Tenant Id
5
New Apartment
209

Submit

Edit Tenant before submitting the change, Tenant id: 5, New Apartment: 209

	user_id	name	phone	email	apartment	check_in	check_out
▶	4	John Smith	111 222 3333	js@email.com	105	2023-11-20 16:32:57	NULL
	5	Tim	100 220 3030	tim@email.com	209	2023-11-20 16:33:06	NULL
	12	John Tenant	123 123 1234	JohnT@email.com	106	2023-12-09 19:59:16	NULL
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Tenants After Edit Tenant, tenant 4's apartment has changed from 208 to 209

III. Del Tenant

Maintenance Request App

Log out

Admin

Add Tenant   Edit Tenant   Add Staff   Delete Staff

Delete Tenant

Tenant Id
12

Delete

	user_id	username	password	type
▶	1	admin	password	admin
	2	staff1	passs1	staff
	3	staff2	passs2	staff
	4	tenant1	passt1	tenant
	5	tenant2	passt2	tenant
	9	tenant4	passt4	tenant
	12	NULL	NULL	NULL
*	NULL	NULL	NULL	NULL

Users after Del Tenant

	user_id	name	phone	email	apartment	check_in	check_out
▶	4	John Smith	111 222 3333	js@email.com	105	2023-11-20 16:32:57	NULL
	5	Tim	100 220 3030	tim@email.com	209	2023-11-20 16:33:06	NULL
	12	John Tenant	123 123 1234	JohnT@email.com	106	2023-12-09 19:59:16	2023-12-09 20:02:47
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Tenants after Del Tenant

VI. Add Staff

	user_id	name	phone	email
▶	2	Rick	3455677890	rick@email.com
	3	Bob	201 456 8023	bob@email.com
*	NULL	NULL	NULL	NULL

Staff before Add Staff

Maintenance Request App		Log out
	Admin	
	Add Tenant Edit Tenant Delete Tenant Delete Staff	
	Add Staff	

Username
staff4
Password
••••••
Name
John Staff
Phone
4345343453
Email
JohnS@email.com

Submit

Add Staff page before submitting. Username: staff4, password: passt4, name: John Staff, phone: 4345343453, email: JohnS@email.com

user_id	username	password	type
1	admin	password	admin
2	staff1	passs1	staff
3	staff2	passs2	staff
4	tenant1	passt1	tenant
5	tenant2	passt2	tenant
9	tenant4	passt4	tenant
12	NULL	NULL	NULL
13	staff4	passt3	staff
NULL	NULL	NULL	NULL

Users after Add Staff

user_id	name	phone	email
2	Rick	3455677890	rick@email.com
3	Bob	201 456 8023	bob@email.com
13	John Staff	4345343453	JohnS@email.com
NULL	NULL	NULL	NULL

Staff after Add Staff

V. Del Staff

Del Staff before submitting. Staff id: 12

	user_id	username	password	type
▶	1	admin	password	admin
	2	staff1	passs1	staff
	3	staff2	passs2	staff
	4	tenant1	passt1	tenant
	5	tenant2	passt2	tenant
	9	tenant4	passt4	tenant
	12	NULL	NULL	NULL
	13	NULL	NULL	NULL
✱	NULL	NULL	NULL	NULL

Users after Del Staff, staff table remains unchanged

D. Staff.js
Logging in as staff takes you to the localhost:8080/staff page, and initially displays all requests. There are 5 search filters. Status, which can be All, Pending or Completed. Apartment number, location and a start date and end date. Requests are displayed in a table which displays all elements minus the request_id.

To update the status of a request, the staff member clicks on the box for status on the corresponding row. If the task has already been completed, no change is made.

Maintenance Request App						Log out

Staff Portal

Search
Status
All
Apartment
Location
From
mm / dd / yyyy , --:-- --
Until
mm / dd / yyyy , --:-- --
Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Completed	2023-11-22T02:13:43.000Z	4	107	kitchen	Sink leaking	
Pending	2023-11-21T13:45:12.000Z	4	107	kitchen	still leaking	
Pending	2023-11-23T21:43:51.000Z	5	208	bathroom	mold	
Pending	2023-12-10T01:30:25.000Z	4	105	living room	air conditioner broke	
Pending	2023-12-10T01:33:30.000Z	5	209	kitchen	dish washer stopped working	
Completed	2023-12-10T01:34:17.000Z	5	209	test	testing	
Pending	2023-12-10T01:34:34.000Z	5	209	more tests	more testing	
Completed	2023-12-10T01:37:14.000Z	9	205	tenant4 apartment	theres a problem	
Pending	2023-12-10T01:37:58.000Z	15	206	tenant 5's apartment	problem after moving in	
Pending	2023-12-10T01:41:44.000Z	4	107	kitchen	a month later and theres still a problem	

The initial Staff page.

Maintenance Request App   Log out

Staff Portal

Search

Status
Completed ⌄
Apartment
[   ] ⌄
Location
[   ]
From
mm / dd / yyyy , --:-- -- 📅
Until
mm / dd / yyyy , --:-- -- 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Completed	2023-11-22T02:13:43.000Z	4	107	kitchen	Sink leaking	
Completed	2023-12-10T01:34:17.000Z	5	209	test	testing	
Completed	2023-12-10T01:37:14.000Z	9	205	tenant4 apartment	theres a problem	

Staff page after only Completed

Maintenance Request App   Log out

Staff Portal

Search

Status
All   ⌄
Apartment
[   ] ⌄
Location
kitchen
From
mm / dd / yyyy , --:-- -- 📅
Until
mm / dd / yyyy , --:-- -- 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Completed	2023-11-22T02:13:43.000Z	4	107	kitchen	Sink leaking	
Pending	2023-11-21T13:45:12.000Z	4	107	kitchen	still leaking	
Pending	2023-12-10T01:33:30.000Z	5	209	kitchen	dish washer stopped working	
Pending	2023-12-10T01:41:44.000Z	4	107	kitchen	a month later and theres still a problem	

Staff page after only location: kitchen is searched

Maintenance Request App   Log out

Staff Portal

Search

Status
All ⌄
Apartment
[   ] ⇕
Location
[   ]
From
11 / 23 / 2023 , 00 : 00 AM 📅
Until
mm / dd / yyyy , --:-- -- 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Pending	2023-11-23T21:43:51.000Z	5	208	bathroom	mold	
Pending	2023-12-10T01:30:25.000Z	4	105	living room	air conditioner broke	
Pending	2023-12-10T01:33:30.000Z	5	209	kitchen	dish washer stopped working	
Completed	2023-12-10T01:34:17.000Z	5	209	test	testing	
Pending	2023-12-10T01:34:34.000Z	5	209	more tests	more testing	
Completed	2023-12-10T01:37:14.000Z	9	205	tenant4 apartment	theres a problem	
Pending	2023-12-10T01:37:58.000Z	15	206	tenant 5's apartment	problem after moving in	
Pending	2023-12-10T01:41:44.000Z	4	107	kitchen	a month later and theres still a problem	

Staff page after a start date is input

Maintenance Request App   Log out

Staff Portal

Search

Status
All ⌄
Apartment
[   ] ⇕
Location
[   ]
From
mm / dd / yyyy , --:-- -- 📅
Until
11 / 23 / 2023 , 00 : 00 AM 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Completed	2023-11-22T02:13:43.000Z	4	107	kitchen	Sink leaking	
Pending	2023-11-21T13:45:12.000Z	4	107	kitchen	still leaking	

Staff page after an end date is input

Maintenance Request App   Log out

Staff Portal

Search

Status
Completed ▾
Apartment
107
Location
kitchen
From
mm / dd / yyyy , -- : -- -- 📅
Until
mm / dd / yyyy , -- : -- -- 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Completed	2023-11-22T02:13:43.000Z	4	107	kitchen	Sink leaking	

Search page after status: completed, apartment: 107 and location: kitchen is searched

Maintenance Request App   Log out

Staff Portal

Search

Status
Pending ▾
Apartment

Location

From
mm / dd / yyyy , -- : -- -- 📅
Until
mm / dd / yyyy , -- : -- -- 📅

Search

Status	Opened	Tenant	Apartment	Location	Description	Photo
Pending	2023-11-21T13:45:12.000Z	4	107	kitchen	still leaking	
Pending	2023-11-23T21:43:51.000Z	5	208	bathroom	mold	
Pending	2023-12-10T01:30:25.000Z	4	105	living room	air conditioner broke	
Pending	2023-12-10T01:33:30.000Z	5	209	kitchen	dish washer stopped working	
Pending	2023-12-10T01:34:34.000Z	5	209	more tests	more testing	
Pending	2023-12-10T01:37:58.000Z	15	206	tenant 5's apartment	problem after moving in	
Pending	2023-12-10T01:41:44.000Z	4	107	kitchen	a month later and theres still a problem	

All pending requests are search

request_id	tenant_id	apartment	created	location	description	photo	status	staff_id
1	4	107	2023-11-21 21:13:43	kitchen	Sink leaking	https://external-content.duckduckgo.com/iu/?u...	Completed	3
2	4	107	2023-11-21 08:45:12	kitchen	still leaking		Pending	NULL
3	5	208	2023-11-23 16:43:51	bathroom	mold		Pending	NULL
10	4	105	2023-12-09 20:30:25	living room	air conditioner broke	https://static.homeguide.com/assets/images/co...	Pending	NULL
11	5	209	2023-12-09 20:33:30	kitchen	dish washer stopped working		Pending	NULL
12	5	209	2023-12-09 20:34:17	test	testing		Completed	3
13	5	209	2023-12-09 20:34:34	more tests	more testing		Pending	NULL
14	9	205	2023-12-09 20:37:14	tenant4 apartment	theres a problem		Completed	3
15	15	206	2023-12-09 20:37:58	tenant 5's apartment	problem after moving in		Pending	NULL
16	4	107	2023-12-09 20:41:44	kitchen	a month later and theres stil...	NULL	Pending	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

The Requests table

Pending requests after clicking on the 3rd, 4th and 7th requests

request_id	tenant_id	apartment	created	location	description	photo	status	staff_id
1	4	107	2023-11-21 21:13:43	kitchen	Sink leaking	https://external-content.duckduckgo.com/iu/?u...	Completed	3
2	4	107	2023-11-21 08:45:12	kitchen	still leaking		Pending	NULL
3	5	208	2023-11-23 16:43:51	bathroom	mold		Pending	NULL
10	4	105	2023-12-09 20:30:25	living room	air conditioner broke	https://static.homeguide.com/assets/images/co...	Completed	2
11	5	209	2023-12-09 20:33:30	kitchen	dish washer stopped working		Completed	2
12	5	209	2023-12-09 20:34:17	test	testing		Completed	3
13	5	209	2023-12-09 20:34:34	more tests	more testing		Pending	NULL
14	9	205	2023-12-09 20:37:14	tenant4 apartment	theres a problem		Completed	3
15	15	206	2023-12-09 20:37:58	tenant 5's apartment	problem after moving in		Pending	NULL
16	4	107	2023-12-09 20:41:44	kitchen	a month later and theres still a problem	NULL	Completed	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Requests after the previous requests were clicked on by staff1 (id:2). Note that request_ids 10, 11 and 16 have had status updated along with the corresponding staff_id

E. Tenant.js

The blank request form

	request_id	tenant_id	apartment	created	location	description	photo	status	staff_id
▶	1	4	107	2023-11-21 21:13:43	kitchen	Sink leaking	https://external-content.duckduckgo.com/iu/?u...	Completed	3
	2	4	107	2023-11-21 08:45:12	kitchen	still leaking		Pending	NULL
	3	5	208	2023-11-23 16:43:51	bathroom	mold		Pending	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Requests before any new submissions

Form before submission with a url attached for the photo

request_id	tenant_id	apartment	created	location	description	photo	status	staff_id
1	4	107	2023-11-21 21:13:43	kitchen	Sink leaking	https://external-content.duckduckgo.com/iu/?u...	Completed	3
2	4	107	2023-11-21 08:45:12	kitchen	still leaking		Pending	NULL
3	5	208	2023-11-23 16:43:51	bathroom	mold		Pending	NULL
10	4	105	2023-12-09 20:30:25	living room	air conditioner broke	https://static.homeguide.com/assets/images/co...	Pending	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Requests after previous submission

Form before submission without photo

request_id	tenant_id	apartment	created	location	description	photo	status	staff_id
1	4	107	2023-11-21 21:13:43	kitchen	Sink leaking	https://external-content.duckduckgo.com/iu/?u...	Completed	3
2	4	107	2023-11-21 08:45:12	kitchen	still leaking		Pending	NULL
3	5	208	2023-11-23 16:43:51	bathroom	mold		Pending	NULL
10	4	105	2023-12-09 20:30:25	living room	air conditioner broke	https://static.homeguide.com/assets/images/co...	Pending	NULL
11	5	209	2023-12-09 20:33:30	kitchen	dish washer stopped working		Pending	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Backend: index.js is the main backend file in /server/. It connects to the MySQL database at localhost:8080.

Listeners:
A. app.post('/login', …
   Compares the username and password against the users table.
   If the username (which is unique) and password matches, the associated id and type is returned to the front end.

B. app.post('/tenant', …
   Receives the information from the tenant request page and inserts a new row into the requests table.

C. app.post('/admin/add-tenant' …
   Receives the information from the admin add tenant page and inserts a new row into the users with type = 'tenant' and auto generates a user_id. The user_id is then used to insert a row into tenants with the rest of the information.

D. app.post('/admin/edit-tenant' …
   Receives the user_id and new apartment number from the admin edit tenant page and updates a row into the tenants table matching the user_id.

E. app.post('/admin/del-tenant' …
   Receives the user_id from the admin del tenant page and changes the username, password and type to null in the users table. Primary key cascade was not set as requests would want to be saved even if the tenant is removed. In the tenants table, a check_out date is automatically created.

F. app.post('/admin/add-staff' …
   Receives the information from the admin add staff page and inserts a new row into the users with type = staff' and auto generates a user_id. The user_id is then used to insert a row into staff with the rest of the information.

G. app.post('/admin/del-staff' …
   Receives the user_id from the admin del staff page and changes the same information as del-tenant, minus the check_out date

H. app.get('/staff' …
   Initially queries the requests page for all rows and sends the list back to the front end

I. app.post('/staff-complete-request' …
   Receives a request id and user_id from the staff page. Updates the status in requests to Completed and changes the staff_id to the user_id.

J. app.post('/staff' …
   Receives information from the staff page. The information used to query the database.
   Null values will return all rows in requests. Otherwise the database returns all rows that
   fall within the search criteria.