HOA USER'S MANUAL

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Introduction

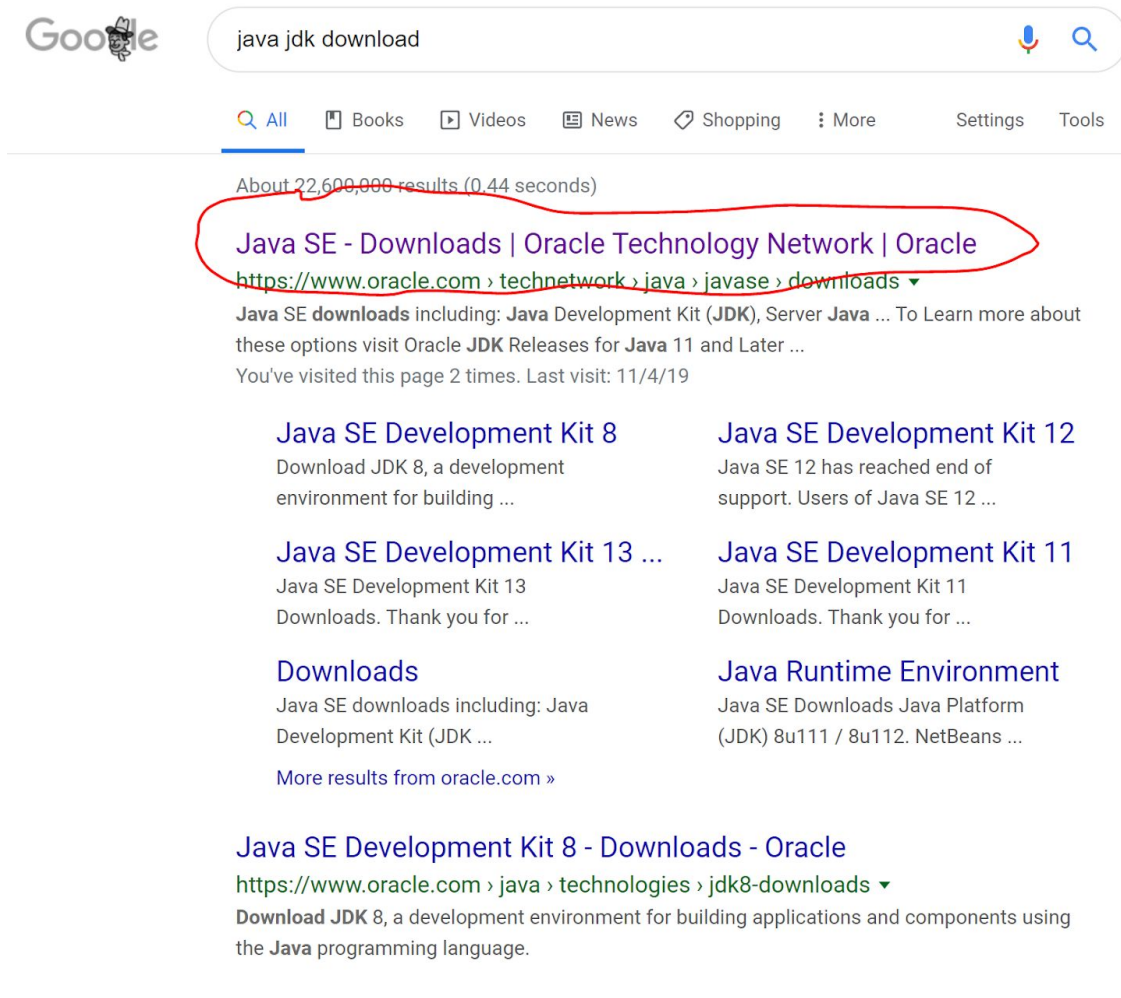   This HoA website allows users and administrators to access relevant information about the community, such as pending service tickets or important documents. This website where homeowners can submit tickets, view documents related to the Homeowners Association, and for administrators to be able to edit tickets that are sent in. The site will only be accessible for those who are apart of this association.

Installation

Part A Java Installation

1) Please navigate to:
   https://www.oracle.com/technetwork/java/javase/downloads/index.html (as
   of 11/4/2019).

2) If the previous step worked, please skip to step 3. If the link is broken,
   please go to "google.com" and type "Java SDK Download," and click on the

result from "oracle.com". This should be the first link that pops up:

3) Once here, please download the latest Java SE JDK. This will be the .exe file for the JDK Number:

Java SE Development Kit 13.0.1

You must accept the Oracle Technology Network License Agreement for Oracle Java SE to download this software.
Thank you for accepting the Oracle Technology Network License Agreement for Oracle Java SE; you may now download this software.

Product / File Description	File Size	Download
Linux	155.88 MB	jdk-13.0.1_linux-x64_bin.deb
Linux	163.17 MB	jdk-13.0.1_linux-x64_bin.rpm
Linux	180 MB	jdk-13.0.1_linux-x64_bin.tar.gz
macOS	172.78 MB	jdk-13.0.1_osx-x64_bin.dmg
macOS	173.11 MB	jdk-13.0.1_osx-x64_bin.tar.gz
Windows	159.84 MB	jdk-13.0.1_windows-x64_bin.exe
Windows	178.99 MB	jdk-13.0.1_windows-x64_bin.zip

4) Once it downloads, please navigate through the download wizard and change the download location to: \Desktop\Latest_JDK\
NOTE: The default location is incorrect! Your wizard **must** look like this:

Java(TM) SE Development Kit 13.0.1 (64-bit) - Destination Folder ✕

Java
ORACLE

Java(TM) SE Development Kit 13.0.1 (64-bit), including a private JRE and src.zip. This will require 420MB on your hard drive. Click the "Change" button to change the installation folder.

Install Java(TM) SE Development Kit 13.0.1 (64-bit) to:
C:\Users\nkumar20\Desktop\Latest_JDK\   Change...

Back   Next   Cancel
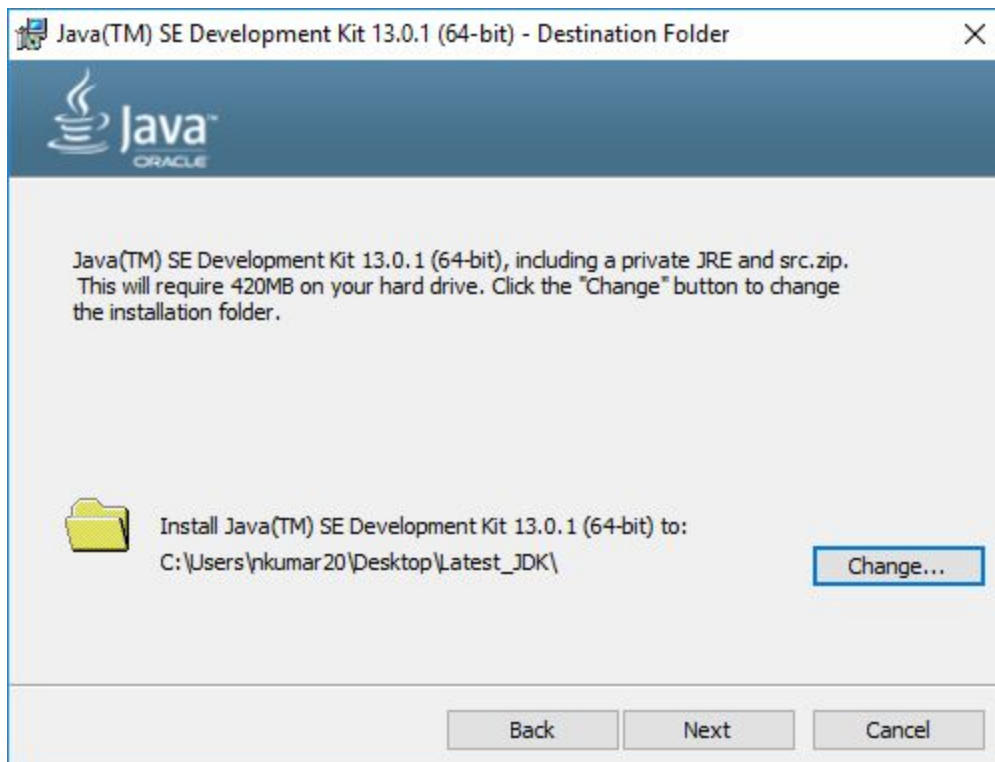
Setting The Environment Variables:

5) Click the icon for Windows in the bottom right corner of your screen (your keyboard may also have a Windows shortcut):

6) Type "Control Panel"
7) Click System -> Edit the system environment variables
8) Click Environment Variables

9) Under System Variables (on the bottom) click "New"

Environment Variables ×

User variables for nkumar20

Variable	Value
Path	C:\Users\nkumar20\AppData\Local\Microsoft\WindowsApps;
TEMP	C:\Users\nkumar20\AppData\Local\Temp
TMP	C:\Users\nkumar20\AppData\Local\Temp

New...   Edit...   Delete

System variables

Variable	Value
ComSpec	C:\windows\system32\cmd.exe
JAVA_HOME	C:\Users\nkumar20\Desktop\Latest_JDK
NUMBER_OF_PROCESSORS	2
OS	Windows_NT
Path	%JAVA_HOME%\bin;C:\Program Files (x86)\Common Files\Oracle\J...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

New...   Edit...   Delete

OK   Cancel
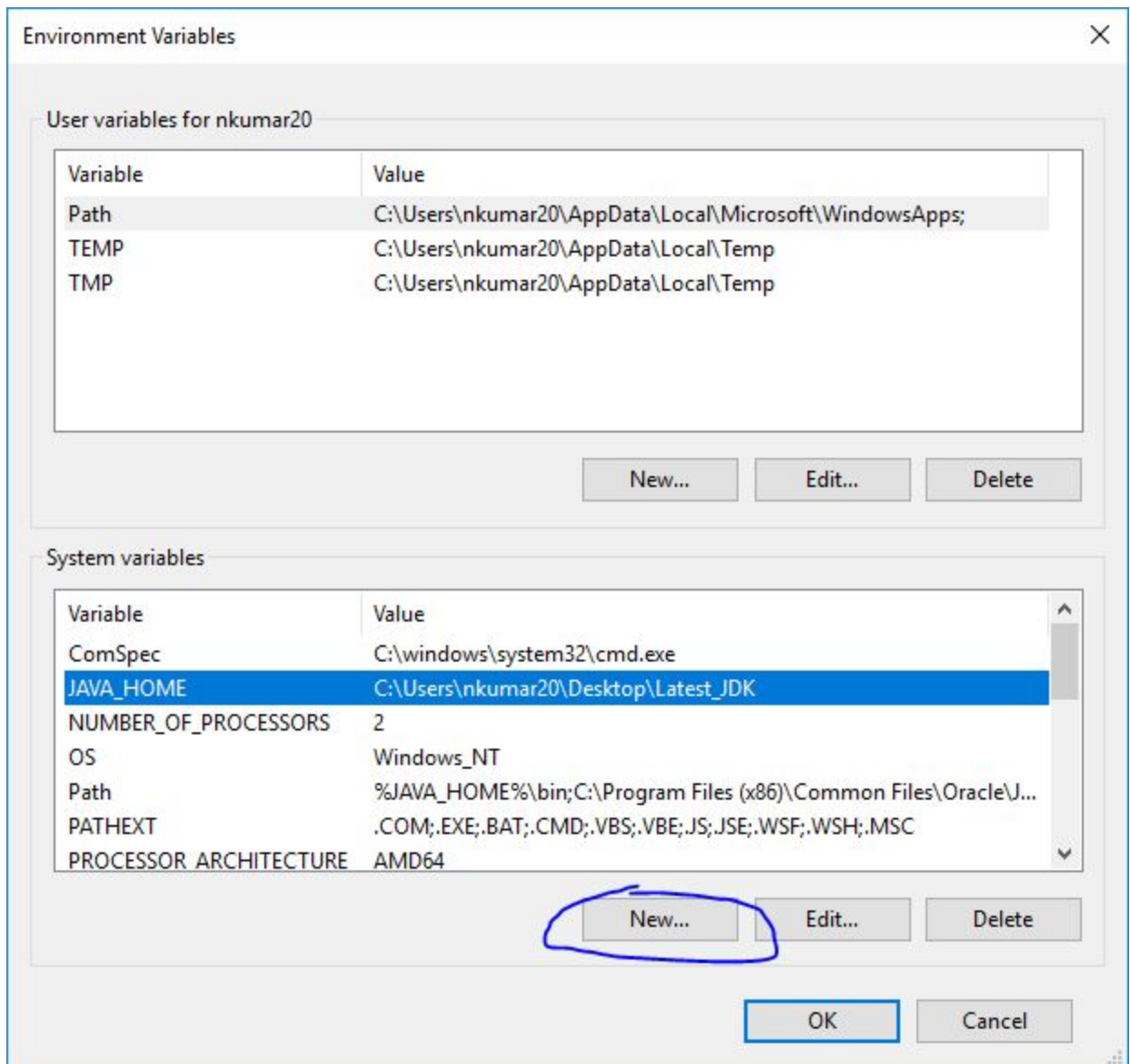
10)   In the window that pops up, please fill the:
    a) Variable Name = "JAVA_HOME"
    b) Variable Value = Your Java Full Path (The one you set in Step 4,

please refer back there if you need this)

New System Variable				×
Variable name:	JAVA_HOME			
Variable value:	C:\Users\nkumar20\Desktop\Latest_JDK			
Browse Directory...	Browse File...		OK	Cancel
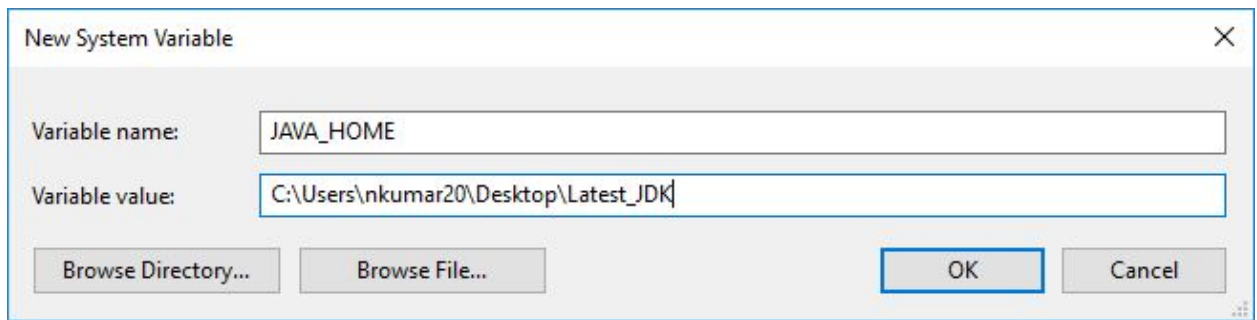
11) Next navigate back to System Variables (Refer to picture in Step 9), scroll down to "Path", and click edit.

12) Next, click New. Type: "%JAVA_HOME%\bin"

13) Make sure that this is at the top. To reorder items click Move Up or Move Down. The final Path should like *similar* to this:

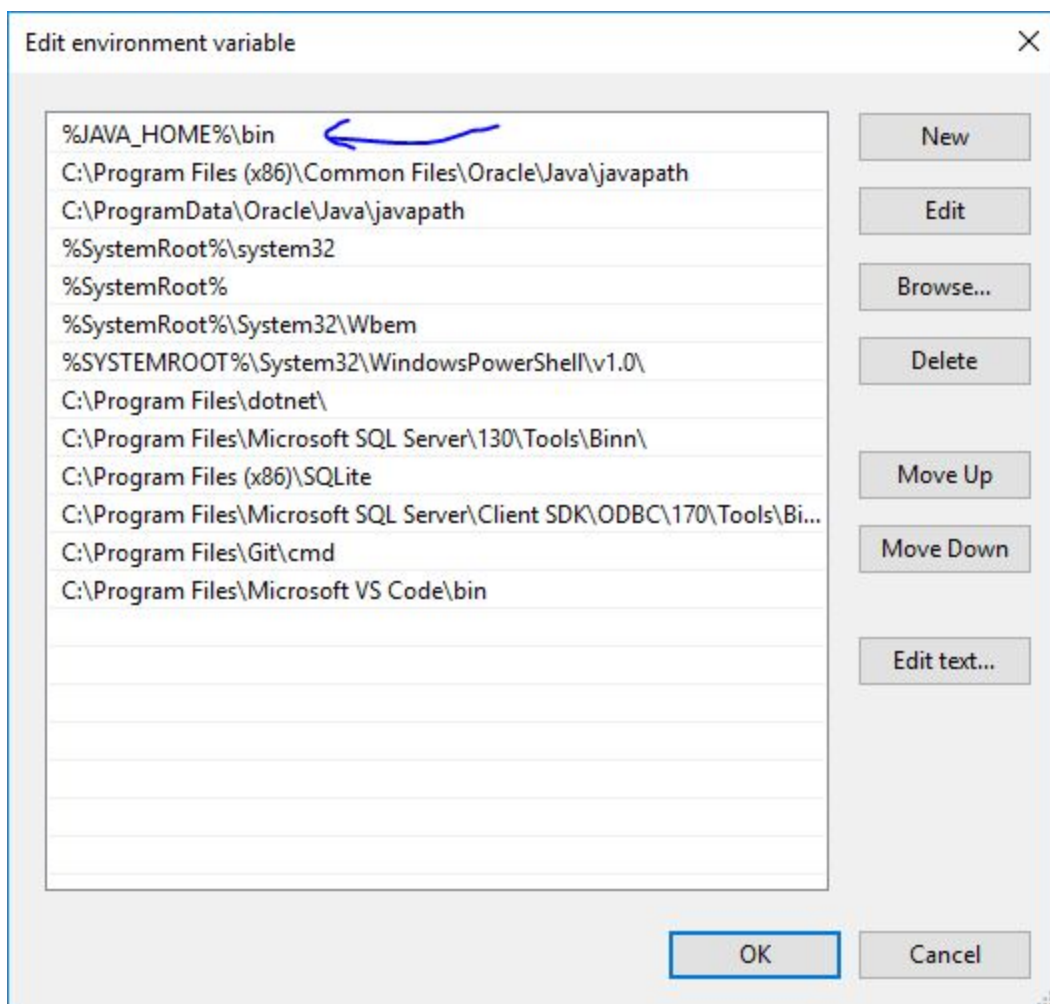| Edit environment variable		×
%JAVA_HOME%\bin		New
C:\Program Files (x86)\Common Files\Oracle\Java\javapath		
C:\ProgramData\Oracle\Java\javapath		Edit
%SystemRoot%\system32		
%SystemRoot%		Browse...
%SystemRoot%\System32\Wbem		
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\		Delete
C:\Program Files\dotnet\		
C:\Program Files\Microsoft SQL Server\130\Tools\Binn\		
C:\Program Files (x86)\SQLite		Move Up
C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools\Bi...		
C:\Program Files\Git\cmd		Move Down
C:\Program Files\Microsoft VS Code\bin		
		Edit text...
	OK	Cancel

14)   Hit OK. You have successfully installed the latest JDK into your machine, and set the environment variables. *Optional*: To verify correct installation, you can open any shell and type "java -version"

Part B - Maven Installation
1) The Maven installation is very similar to the Java Installation in the previous part. **Create a folder on your Desktop called "maven_installation"**
2) In your web browser, please navigate to:
   https://maven.apache.org/download.cgi

3) Scroll down to the "Files" section and download the binary zip archive to the Desktop:

Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the installation instructions. Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to verify the signature of the release bundles against the public KEYS used by the Apache Maven developers.

|	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.6.2-bin.tar.gz	apache-maven-3.6.2-bin.tar.gz.sha512	apache-maven-3.6.2-bin.tar.gz.asc
Binary zip archive	apache-maven-3.6.2-bin.zip	apache-maven-3.6.2-bin.zip.sha512	apache-maven-3.6.2-bin.zip.asc
Source tar.gz archive	apache-maven-3.6.2-src.tar.gz	apache-maven-3.6.2-src.tar.gz.sha512	apache-maven-3.6.2-src.tar.gz.asc
Source zip archive	apache-maven-3.6.2-src.zip	apache-maven-3.6.2-src.zip.sha512	apache-maven-3.6.2-src.zip.asc

- Release Notes
- Reference Documentation
- Apache Maven Website As Documentation Archive
- All current release sources (plugins, shared libraries,...) available at https://www.apache.org/dist/maven/
- latest source code from source repository
- Distributed under the Apache License, version 2.0

4) Click the icon for Windows in the bottom right corner of your screen (your keyboard may also have a Windows shortcut):

5) Type "Control Panel"
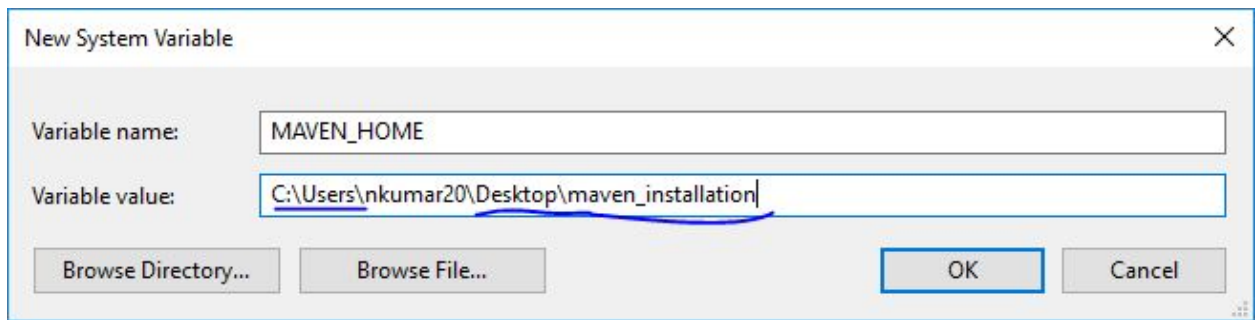6) Click System -> Edit the system environment variables
7) Click Environment Variables

8) Under System Variables (on the bottom) click "New"
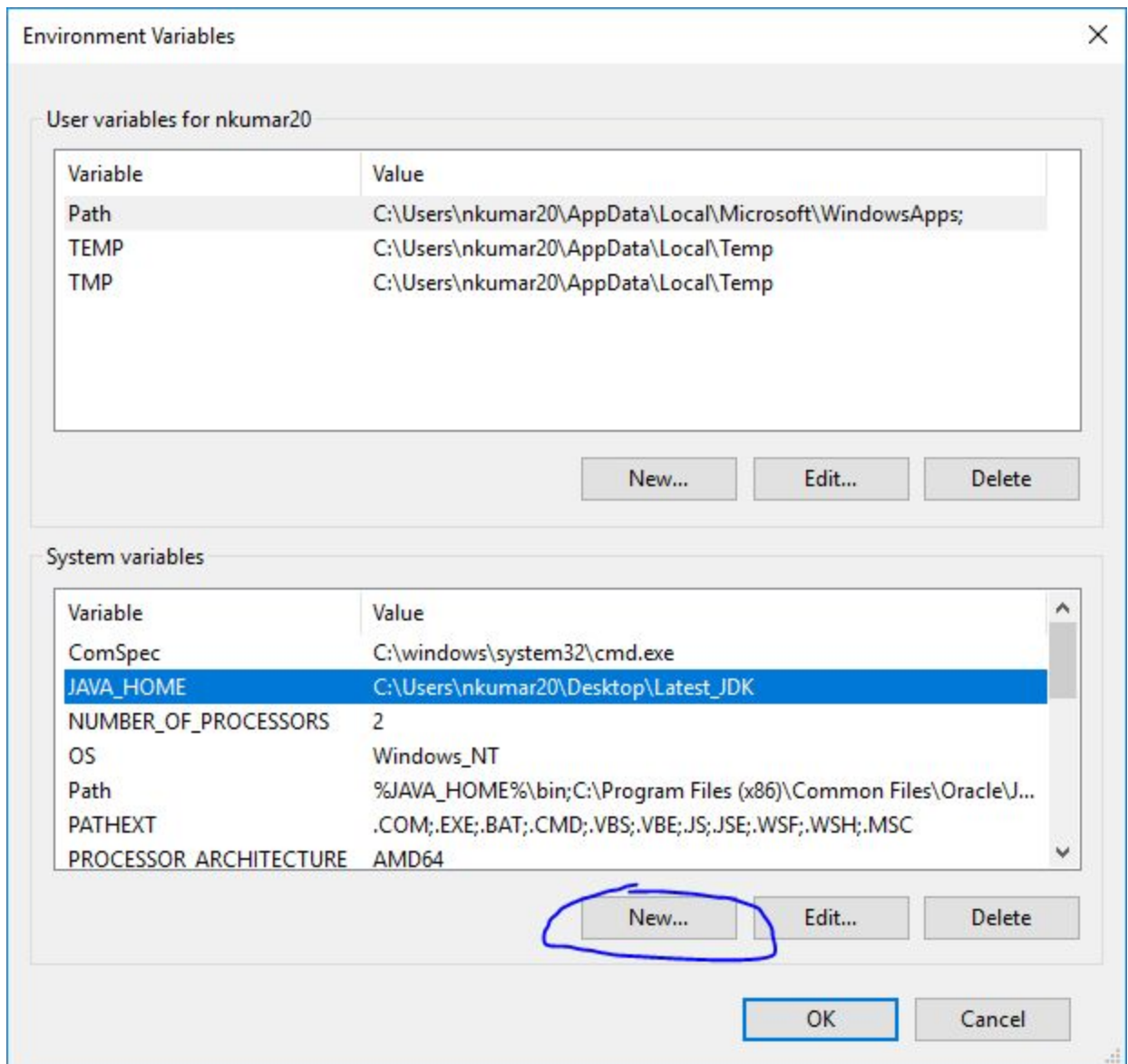
9) In the window that pops up, please fill the:

      a) Variable Name = "MAVEN_HOME"

      b) Variable Value = Your Java Full Path (The one you set in Step 1,
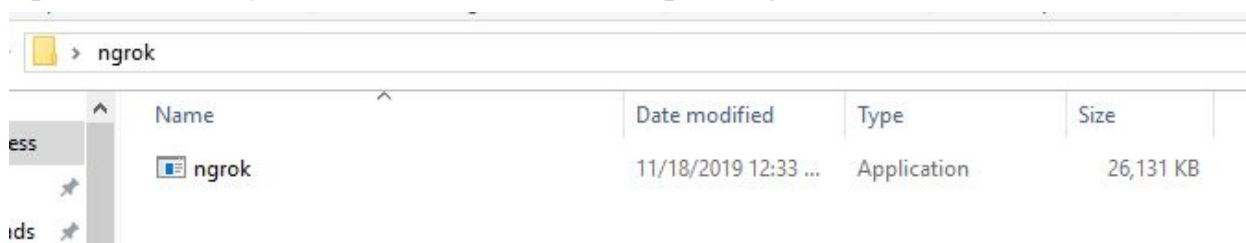
please refer back there if you need this)

10) Next navigate back to System Variables (Refer to picture in Step 9), scroll down to "Path", and click edit.

11) Next, click New. Type: "%MAVEN_HOME%\bin"

12) The final installation should look *similar* to this:
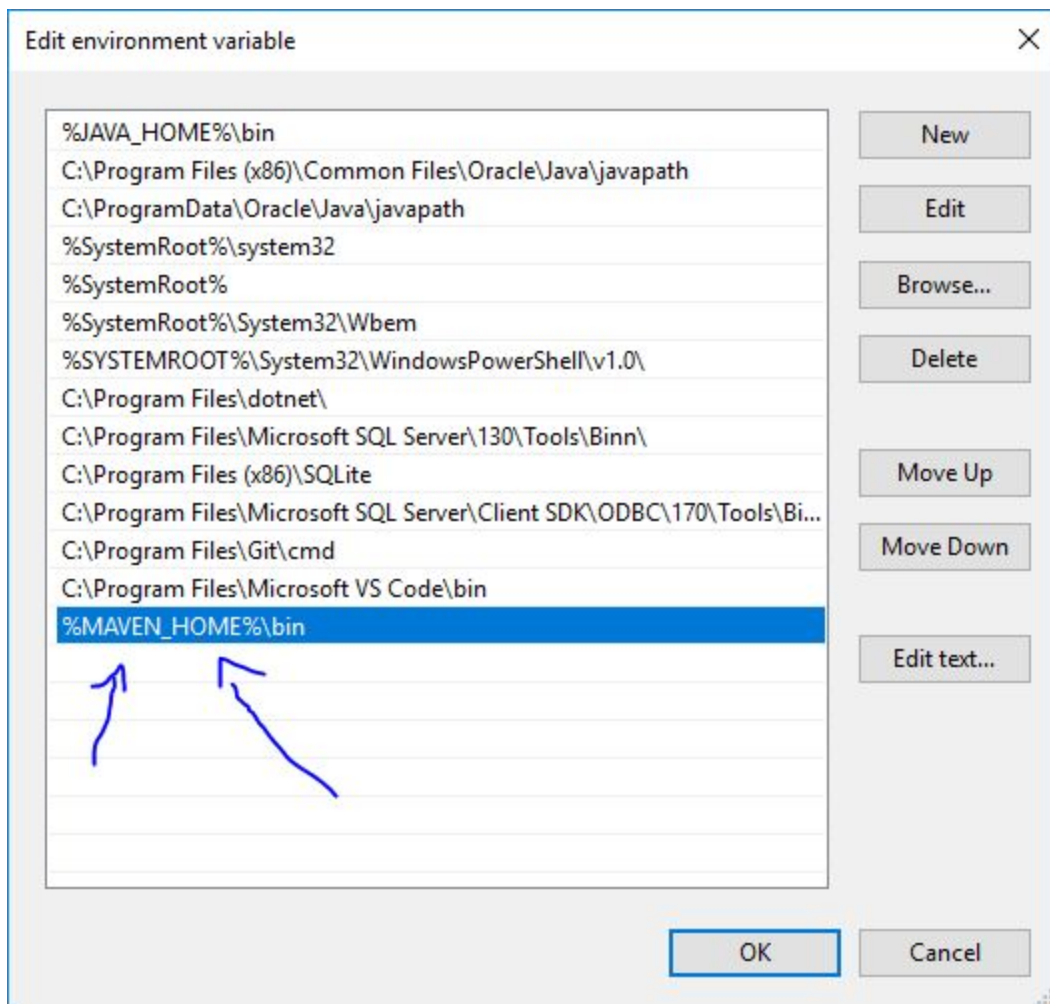
13) Hit OK. You have successfully installed the latest Maven on your machine, and set the environment variables. To verify correct installation, you can open any shell and type "mvn -version"

Part C - Ngrok Installation

1) Please navigate to https://ngrok.com/download, and download the latest version of Ngrok for Windows
2) Extract / Unzip this folder to your Desktop
3) Open the folder you downloaded it in, and open "ngrok.exe"

It should look like this:

4) Next, navigate to https://dashboard.ngrok.com/auth in your web browser.

5) Copy your Auth Token, by clicking the "Copy" button:

Your Tunnel Authtoken

▬▬▬▬▬▬▬▬▬▬▬▬▬▬ [Copy]   Reset your authtoken

You only need to do this one time.

```
./ngrok authtoken
```

You must specify your authtoken to ngrok so that your client is tied to this account. ngrok saves your authtoken in ~/.ngrok2/ngrok.yml so that you don't need to repeat this step.

6) Finally, go back to the Ngrok program. Please type: "ngrok authtoken <YOUR_AUTH_TOKEN>" - pasting the Auth Token you copied here. This hit enter. The final result should look like this:

```
C:\Users\nkumar20\Desktop\ngrok>ngrok authtoken 1234
Authtoken saved to configuration file: C:\Users\nkumar20/.ngrok2/ngrok.yml
```

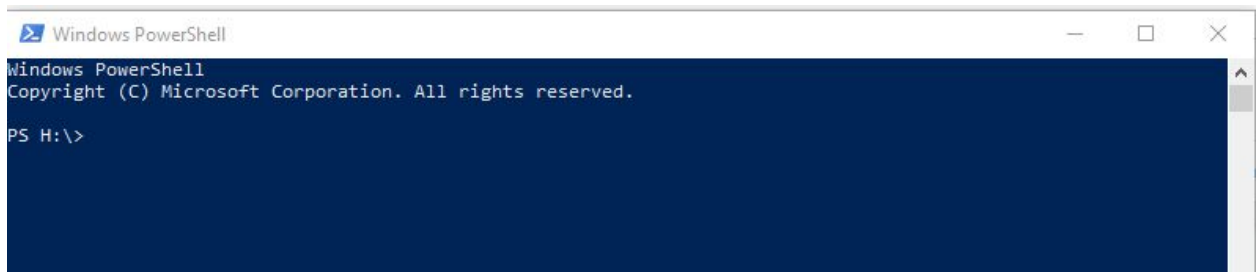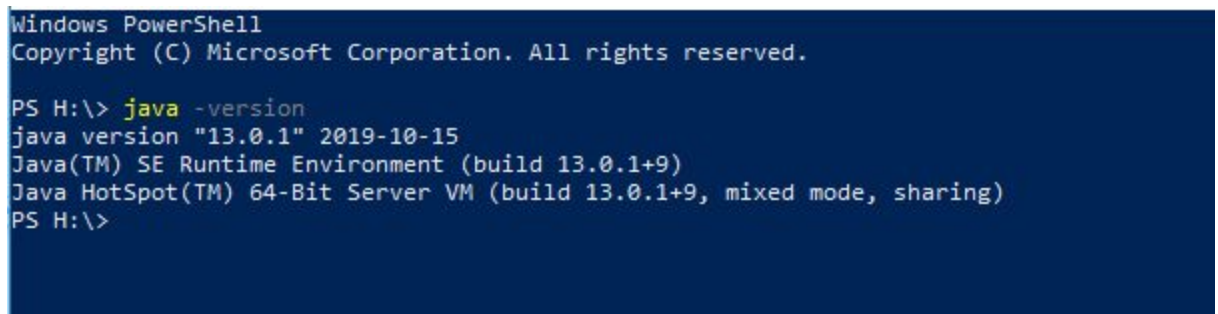# Part D: Installation Verification

1) Click the icon for Windows in the bottom right corner of your screen (your keyboard may also have a Windows shortcut):

2) Type "PowerShell" and hit the enter key.
3) Your PowerShell window should look like this:

4) In PowerShell, type "java -version". You should see an output detailing which version of Java is being run:

5) Next, type "mnn -version". You should an output detailing which version of Maven is installed:

```
PS H:\> java -version
java version "13.0.1" 2019-10-15
Java(TM) SE Runtime Environment (build 13.0.1+9)
Java HotSpot(TM) 64-Bit Server VM (build 13.0.1+9, mixed mode, sharing)
PS H:\> mvn -version
H:\
Apache Maven 3.6.2 (40f52333136460af0dc0d7232c0dc0bcf0d9e117; 2019-08-27T11:06:16-04:00)
Maven home: C:\Users\nkumar20\Desktop\maven_installation\apache-maven-3.6.2\bin\..
Java version: 13.0.1, vendor: Oracle Corporation, runtime: C:\Users\nkumar20\Desktop\Latest_JDK
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
PS H:\>
```

6) Congratulations! Java and Maven have been successfully verified!

Booting Up

Now that we have all of the components necessary to run the application we can go ahead and run the application. To do this, we will download the project from Github, and then start Maven and then Ngrok using Powershell. After this, you will be able to communicate with the HoA website!

Downloading The Project Files

1) On your Desktop, create a folder called "BOOTING_UP"
2) In your web browser, please navigate to https://gitforwindows.org/
3) Click download.
4) Once the file is downloaded open the file. Click "Next" on the license agreement. **Important: Do not change the default options.**
5) The next page is Select Components. Click Next again on the next page. **Important: Do not change the default options.**
6) The next page is the default text editor. Click next again.
7) The next page is setting the PATH variable. Click next again. **Important: Do not change the default options.**
8) For the next 5 pages, click next until you reach the page where it says "Install"
9) Finally, click install.
10) Next open up Git Bash. (the new folder)
11) In Git Bash, navigate to your desktop, into the BOOTING_UP folder you created earlier. Note: Use "ls" to list all contents in your current, and "cd" to change to a folder that you see.
12) Type the command "git clone https://github.com/hondohondo/hoa.git/"
13) After everything downloads, you will have to input the connection string in the folder \HOA\hoa\backend\services\hoa-services\src\main\java\ServiceConstants.java . You will have to retrieve the connection string via the Azure Web portal

for the MtAirDB, using the Mt Air Azure Account (registered with Terri L. - please contact for authentication details).

14) Open up the ServiceConstants.java and paste the Connection String in where marked. Take care to encapsulate this with parentheses and a semi-colon, ex: "<connection-string>";

15) Ensure that you have correctly input the password in the connection string.

16) Continue below:

Starting Maven

1. Open PowerShell and navigate to the folder you cloned in step 12 using the "ls" and "cd" commands.
   For Terri Only: This is on your desktop as "MtAirServer"

2. *For Terri Only:* Instead, use "cd c:\users\<your-windows-username>\Desktop\MtAirServer\"

3. Type: "cd .\HOA\hoa\backend\services\hoa-services\" and hit enter.

4. Type: "mvn: spring-boot:run" and hit enter.

5. Open ngrok

6. Type "ngrok http -subdomain=hoa.api 2772" and hit enter.

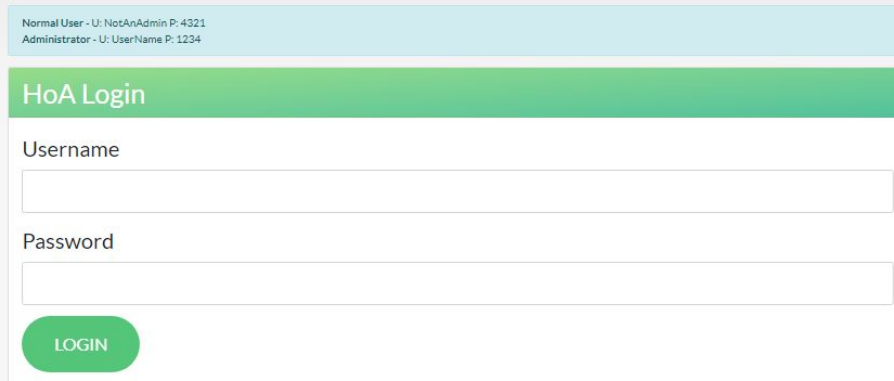7. Congratulations, you have successfully started the program!

Overview

This is a diagram of how a typical user will experience their time on the website:
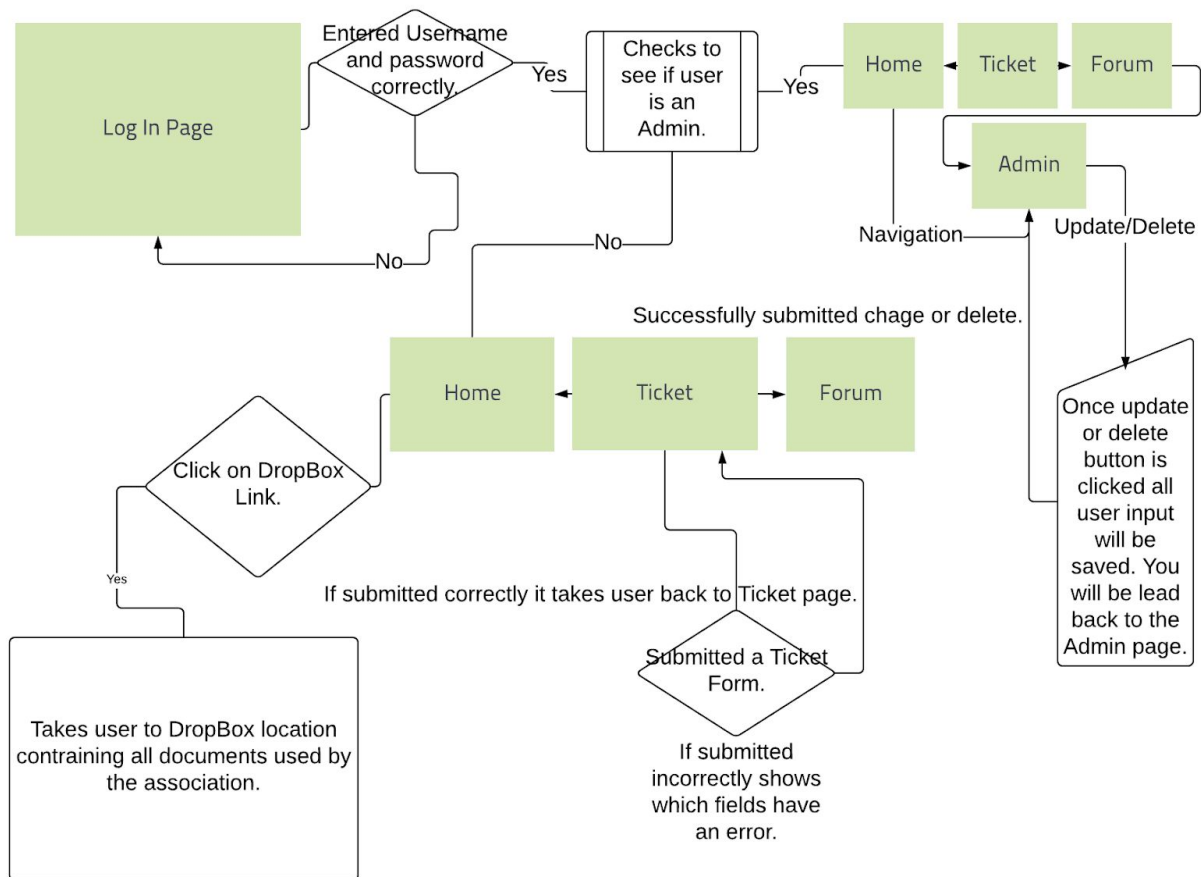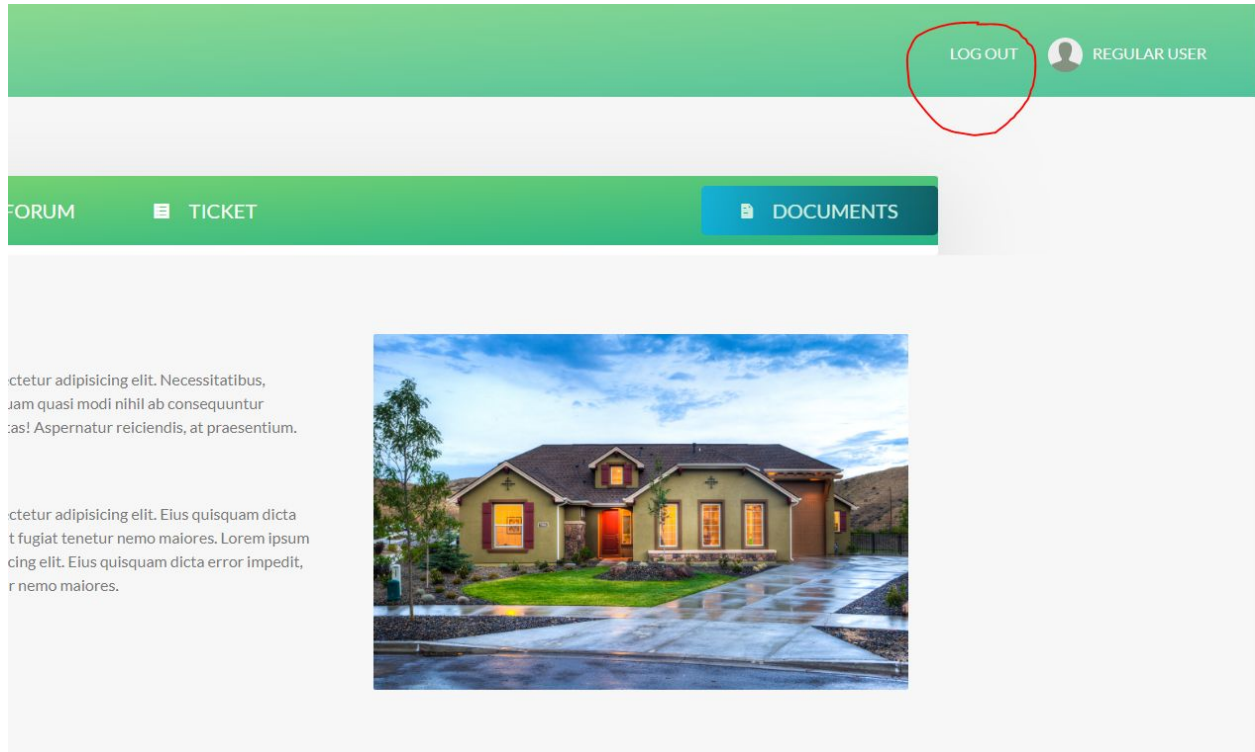
Pages/Extensions

1. Login Page

How to log in.

To log in, click on one of the input fields. It does not matter which you choose. Once you have selected an input field please type in the information relevant to that field. Such as typing your Username credential in the Username text box. When you have filled out both fields click the "Login" button.
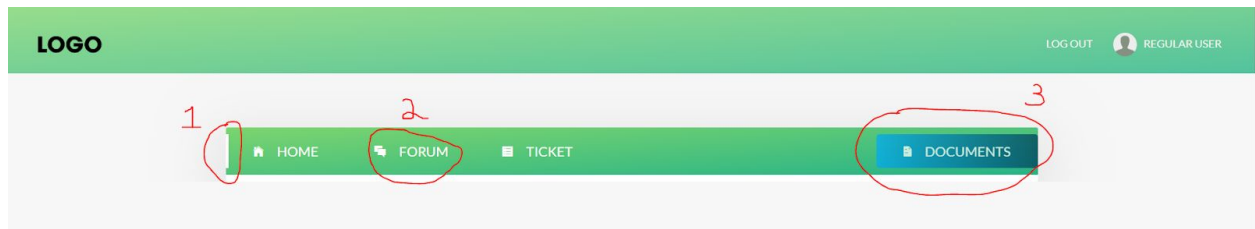
How to log out.

To log out please click the "LogOut" option in the top right corner of the page. The event will lead you back to the LogIn Page.

2.Navigation Bar

How to use the navigation bar.

- The red circle with the number 1 shows a white line next to a navigation option. This white line represents the current page that the user is on.

- The red circle with the number 2 shows a navigation option. If a user clicks on an option, they will be navigated to the page representing that option.
- The red circle with the number 3 is a navigation option leading to DropBox where all of the organization's documents will be stored.
    - Once clicked it will open a new tab with the DropBox information in this tab.
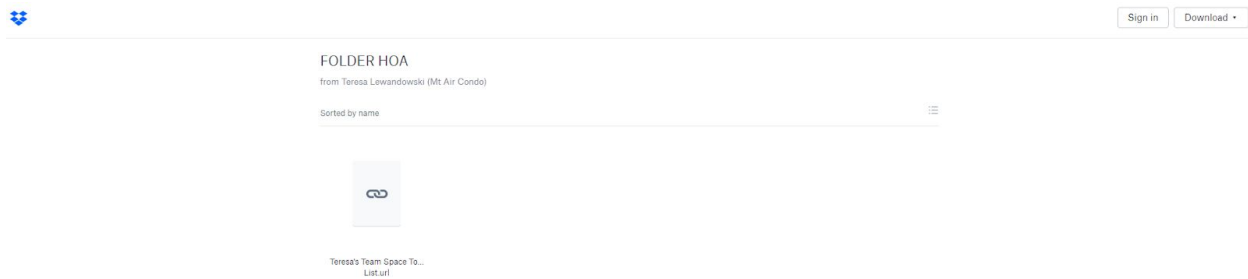
3. Home
    a. The home page has one functionality.
        i. When a user clicks the "Create a Ticket" link they will be navigated to the Ticket page.
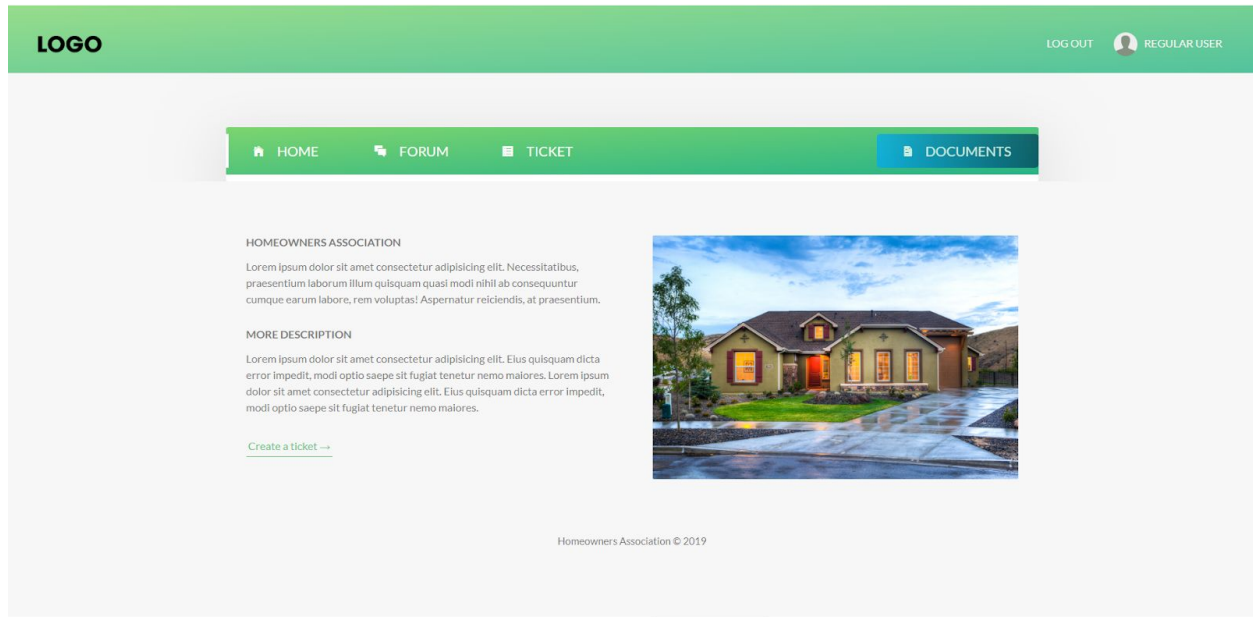
4. Ticket
a. Ticket View:

b. How to Submit a Ticket.
  i. Please fill out all fields of the form with valid responses.

ii. Once you press submit, the program will send
you an alert confirming the submission and return
you back to the Ticket page.

5. Forum

a. This page is currently under construction and does not
have any functionality yet.

6. Admin

a. Admin View:

b. Selecting a ticket to view more details about the
selected ticket.

    i.   To select a desired ticket to view more
information about it, click on the desired ticket in
the table.

    ii.   A modal should appear with the ticket's
information:

    iii.   To exit out of the modal please click outside the
modal space in the darker area or click the "X"
button located on the top right corner of the
modal.

c. Updating a ticket.

    i.   To update a ticket please keep the modal view up
for the desired ticket.

ii. The "Ticket Message" and "Active State" of a
ticket can be changed.

1. To change the "Ticket Message" please type
in the new message in the "Append new
message here" text box.

2. To change the state of a ticket please click
on the "Active State" drop down box and
select the desired result.

3. Once all desired changes are made, click the
Update button to update the selected ticket
with the new changes.

Subject

Testing

Active State

false ▾

Ticket Message

Testing, my house died.

Append new message here

Technical Writing user guide update.

UPDATE

DELETE

4. If the "Active State" drop down list is left
blank, by default it will set the ticket as
active.

d. Deleting a Ticket

    i.   To delete a ticket please keep the modal of the desired ticket open.

    ii.   To simply delete a ticket you have to click the "Delete" button found on the bottom right of the modal.

ARE YOU SURE YOU WANT TO DELETE THE TICKET: 1171 ✕

CANCEL   DELETE

Subject

Testing

Active State

false ▼

Ticket Message

Testing, my house died.

Append new message here

Technical Writing user guide update.

UPDATE   DELETE
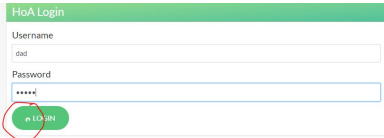
    iii.   There will be a confirmation pop up that will ask you if you are sure that you would like to delete the selected ticket.

        1. Clicking "Cancel" will take you back to the selected ticket's modal.

2. Clicking "Delete" will delete the ticket and send you back to the Admin page.

Troubleshooting

Problem	Problem Description	Possible Fixes
Infinite Login Loop	When trying to log into the site, if you are stuck for a long period of time (more than 2 minutes) check to see if there is a circle animation on the "LogIn" button circled in the picture above.	To fix this issue please refresh your browser. To do this you can either click the refresh button on your browser or press "F5" on your keyboard.

Glossary

1. **Alert** - A pop-up window at the top-middle portion of the page.
2. **Admin, Administrator** - A person with authority who has more access than a regular user.
3. **DropBox** - A website that handles document storage.
4. **Input/Input-Box/Text-Box** - A field that can be clicked upon and have characters typed into them.
5. **Logout** - To disconnect from the website.
6. **Login** - To connect as a user to the website.
7. **Modal** - A pop-up window that appears during an event.
8. **Navigation Bar/NAV** - The portion of the webpage that handles routing the user to other pages of the website.
9. **Password** - A user's given password for logging in.
10. **Routing/Transport** - To move to another page or a section of a page.
11. **Username** - A user's given credential to logging in.
12. **View** - Another term for a web page.