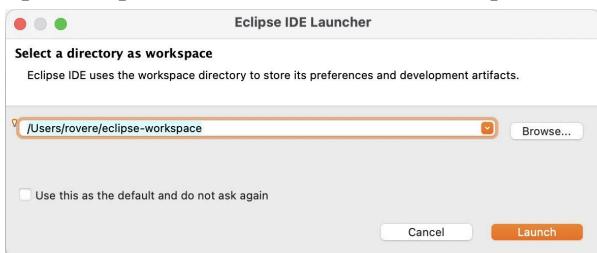


## Eclipse Setup

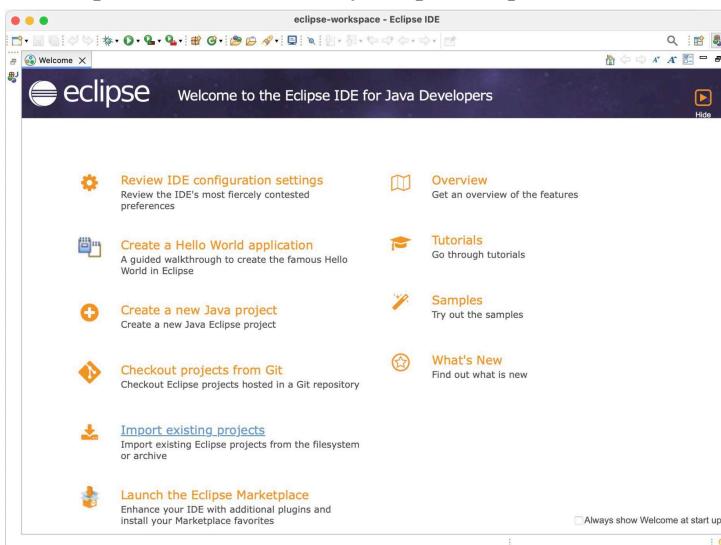
1. Download Eclipse: <https://www.eclipse.org/downloads/>
2. Open Installer and click Eclipse IDE for Java Developers



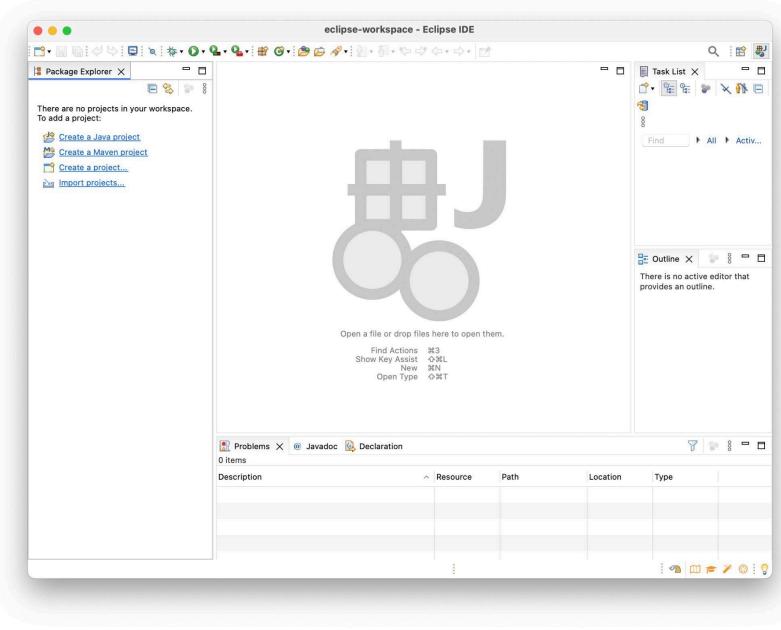
3. Open Eclipse and launch with default eclipse-workspace (just have to click launch)



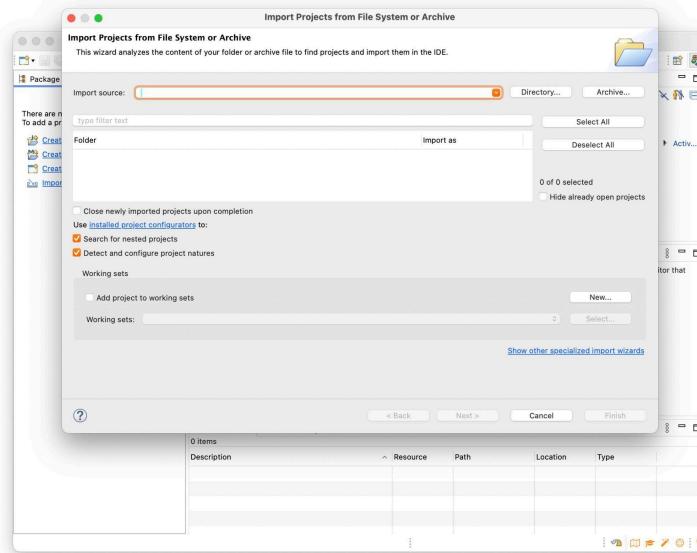
It will open this the first time you open eclipse:



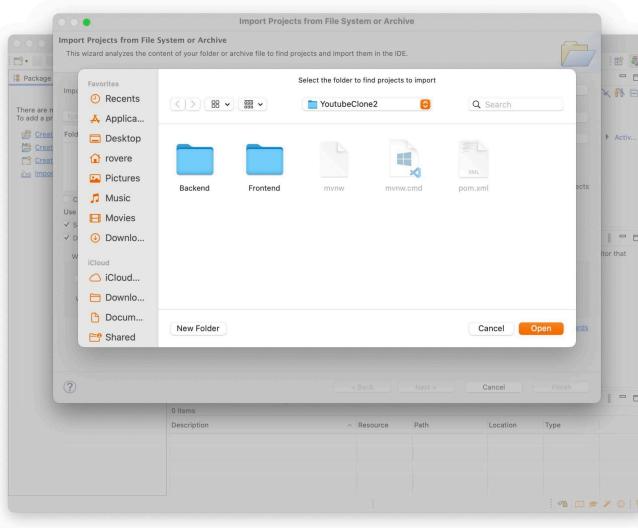
If you've opened eclipse before it will open this:



4. Pull the newest version from Github
5. Follow one of the following:
  - a. Click on Import existing projects

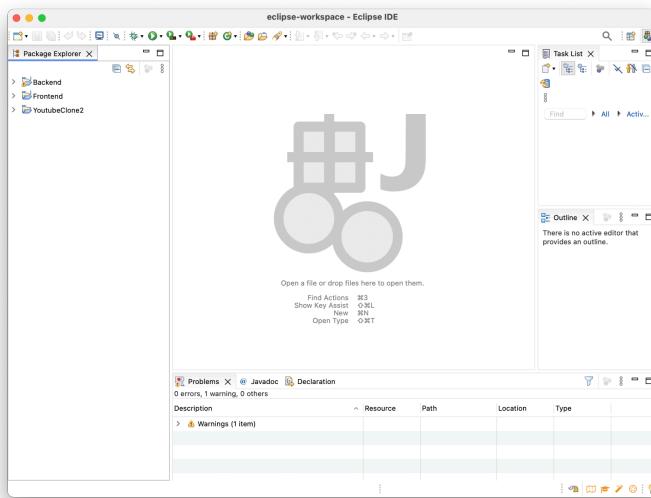


Click on Directory and find the location of the folder YoutubClone2 that you pulled from Github and click Open

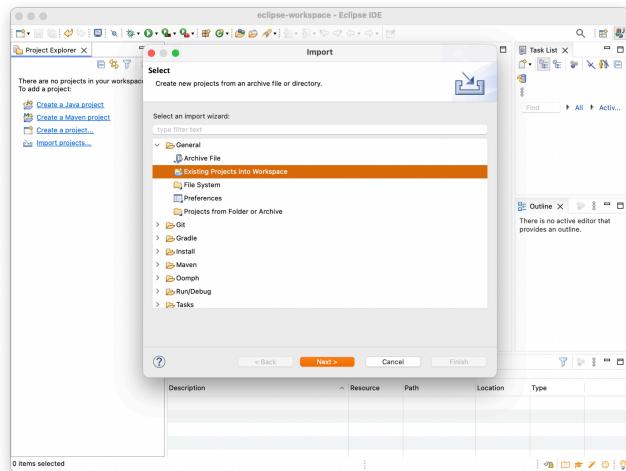


You should see the following and click Finish

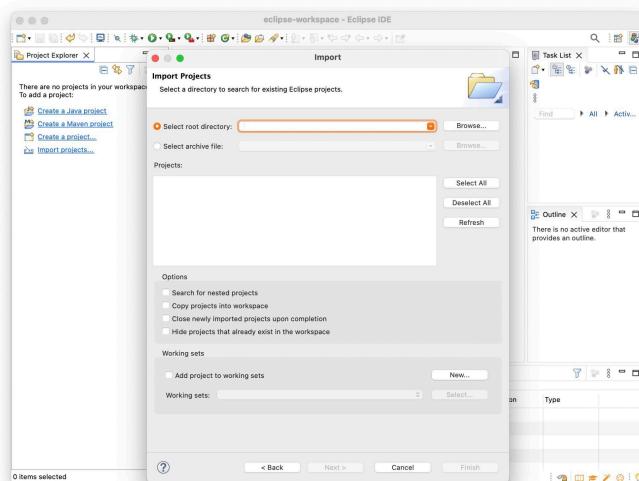
(Its okay if you see 3 folders: Backend, Frontend, and YoutubeClone2, just check if its the Package Explorer. The explorer you want open is Project Explorer. Scroll down to instructions on how to open Project Explorer and different windows in Eclipse)



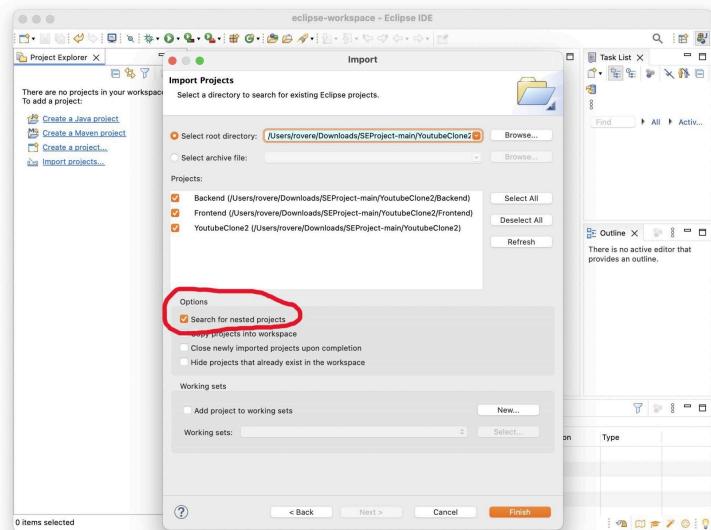
- b. Click on Import projects, open the General folder and click on Existing Projects into Workspace and click Next



Click on Browse



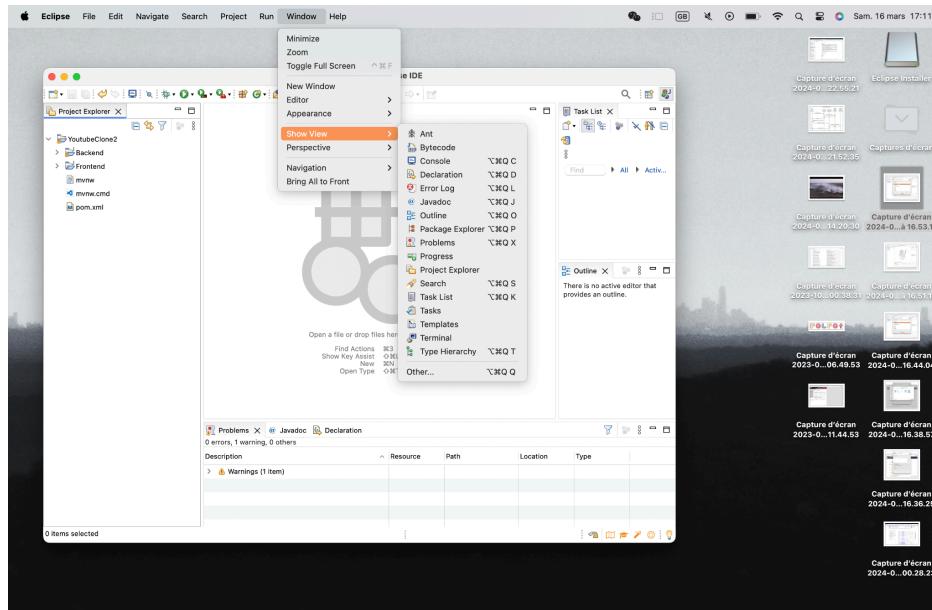
Select the YoutubeClone2 folder and under Options check the Search for nested projects



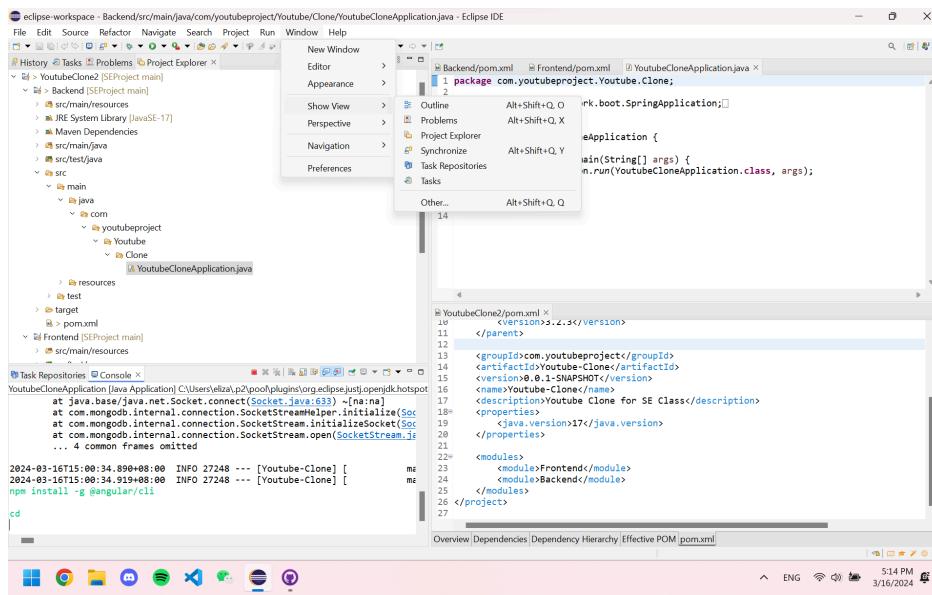
# Eclipse Help

How to open Project Explorer or other windows in eclipse:

1. On the menu bar to to Windows → Show View → Click on the window type you want to open
  - a. MacOS

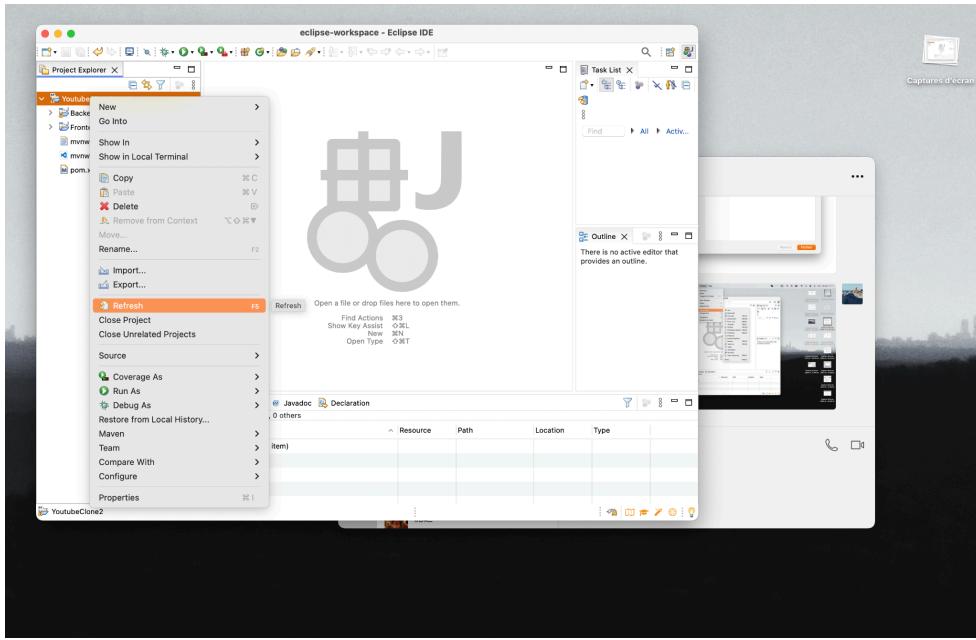


- b. Windows



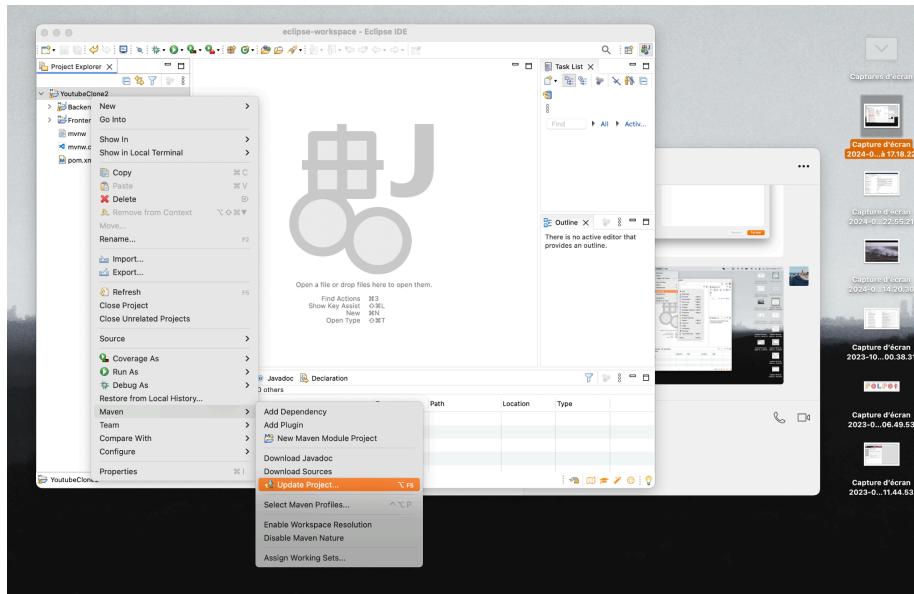
You changed something, but its not showing up:

1. Option 1: It has to do with files
  - a. Two finger click on root directory (YoutubeClone2)
  - b. Click Refresh

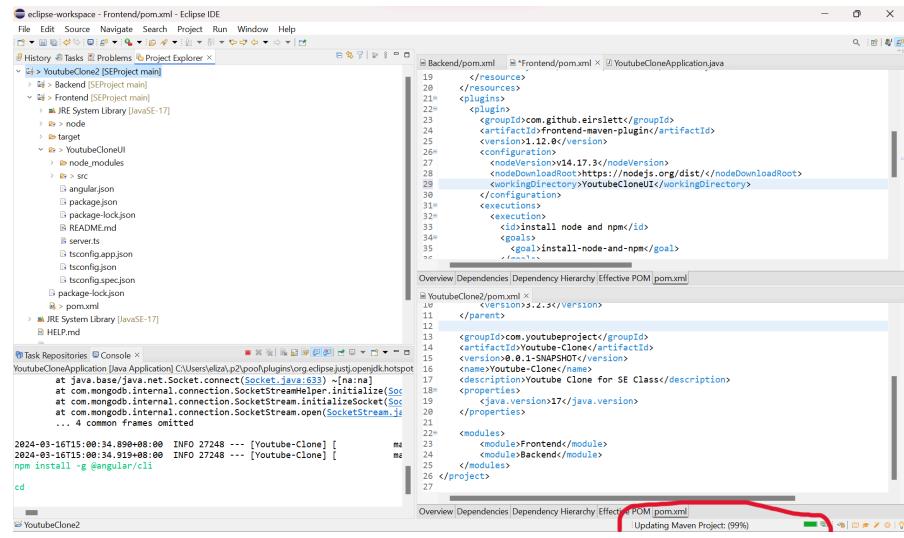


## 2. Option 2: It has to do with maven

- Two finger click on root directory (YoutubeClone2)
- Go to Maven → Update Project



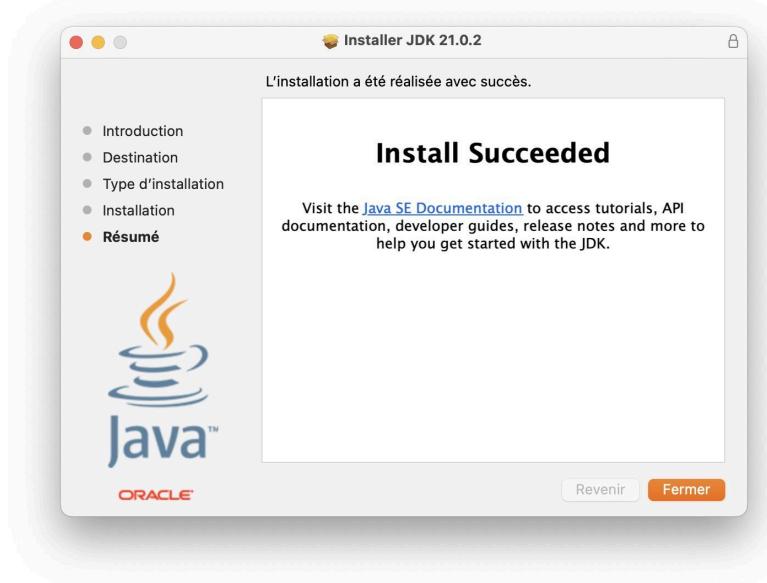
- You will see a loading bar on the bottom right



# Downloads

## Java

1. Go to: <https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>
2. Download the corresponding version of Java for your system.
3. Open the Java installer and follow instructions to install.



## Maven

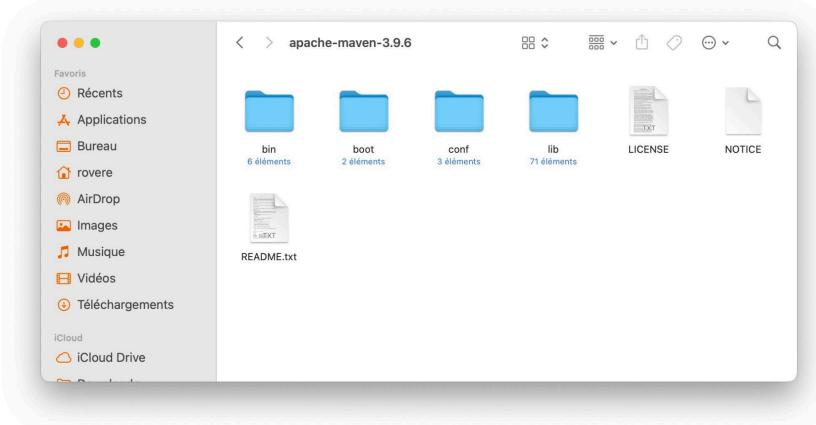
\*\* Have Java installed first

Official installation instructions: <https://maven.apache.org/install.html>

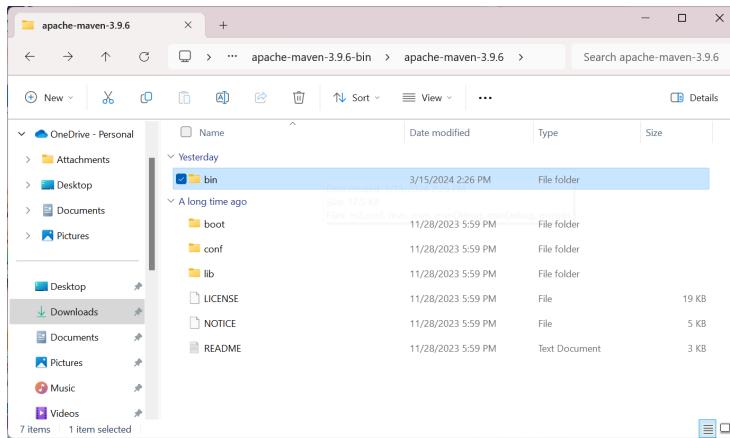
1. Go to: <https://maven.apache.org/download.cgi>
2. Download the maven installer, choose which file your computer can extract

A screenshot of the Apache Maven 3.9.6 download page. The main heading is "Downloading Apache Maven 3.9.6". Below it is a "System Requirements" section. The "Files" section is highlighted with a red box around the "Link" column. It lists four types of archives: Binary tar.gz archive, Binary zip archive, Source targz archive, and Source zip archive. Each row shows the link, checksums (SHA-512), and signature. A note at the bottom explains how to verify signatures. On the left, a sidebar contains links like Welcome, License, About Maven, What is Maven?, Features, Download (which is selected), Use, Release Notes, Documentation, Maven Plugins, Maven Extensions, Index (category), User Centre, Plugin Developer Centre, Maven Repository Centre, Maven Developer Centre, Books and Resources, Security, Community, and Project Overview. At the bottom, there's a "Other Releases" section.

3. After you extract the file, open the extracted folder

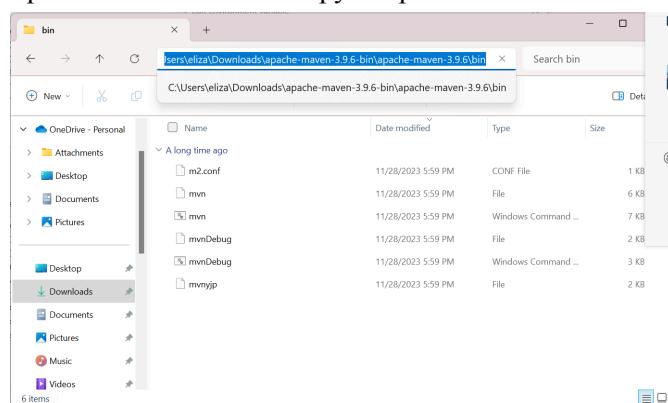


4. Find the path to the extracted Maven folder. Inside it, there will be a bin folder.

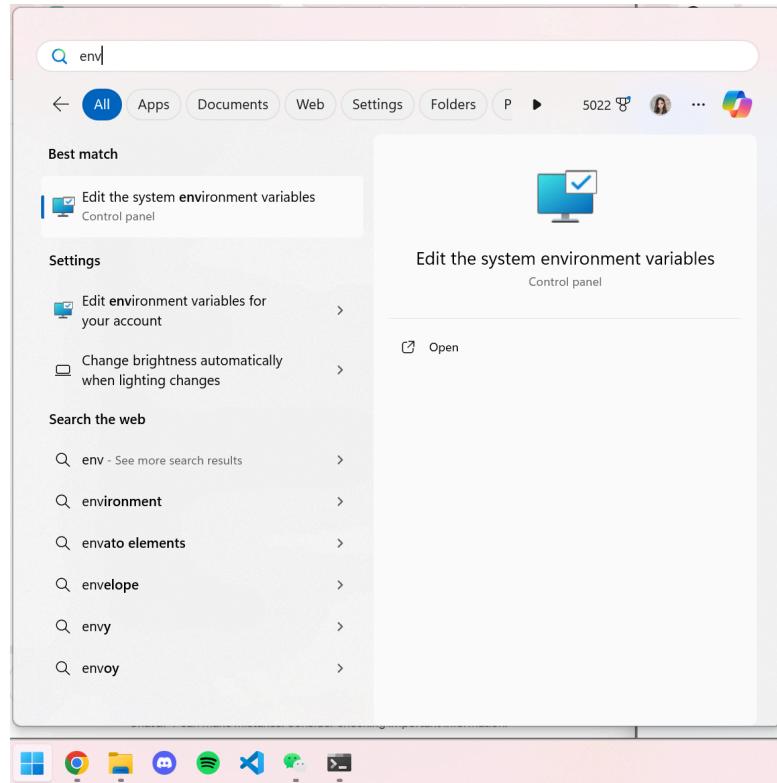


5. Add the full path of the bin directory to your system's PATH environment variable:  
On Windows:

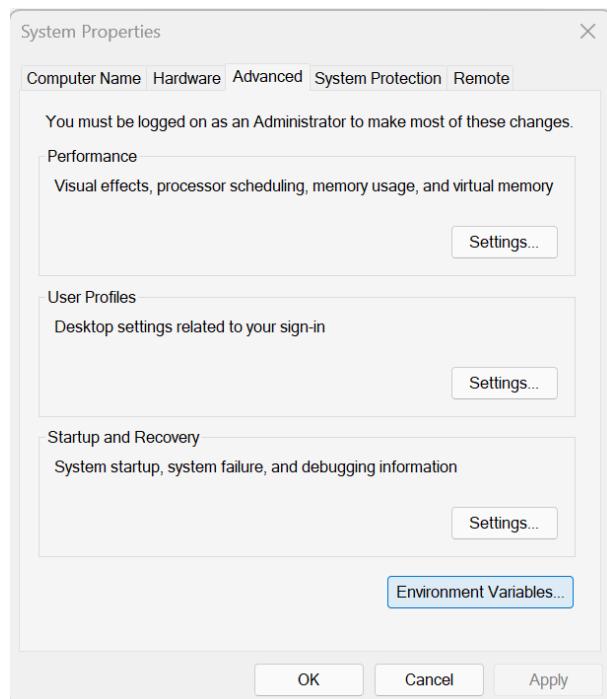
a. Open the bin folder and copy the path



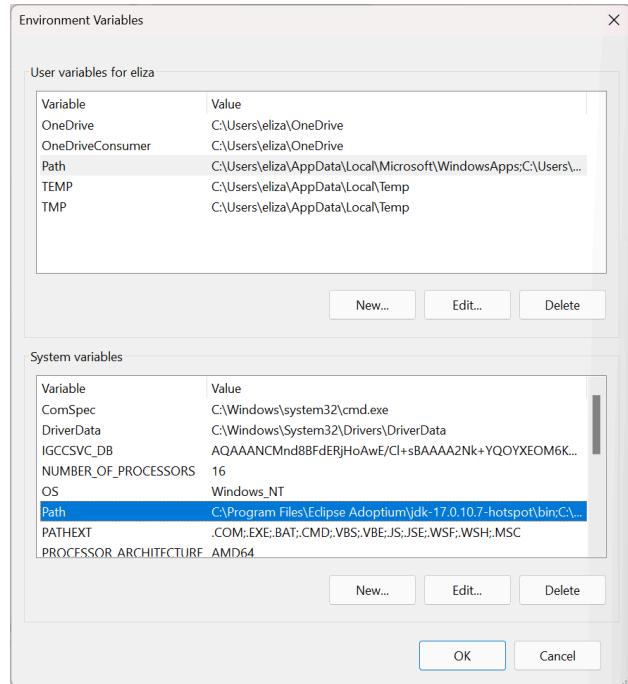
b. Open the Start Search, type in "env", and choose "Edit the system environment variables".



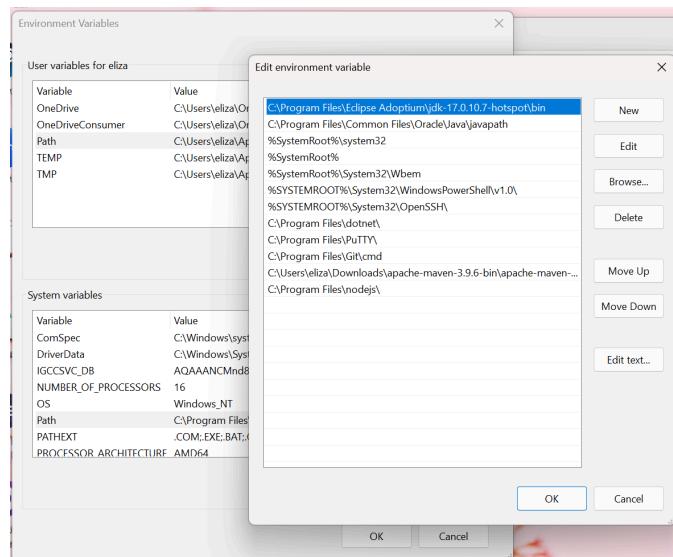
- c. In the System Properties window, click the "Environment Variables..." button.



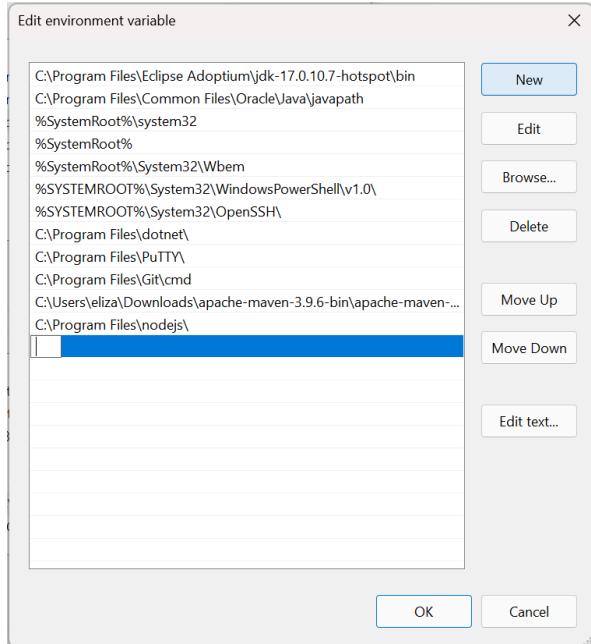
- d. In the Environment Variables window, under System variables, double click on Path



This window will open:



- Click "New" and paste the path to the bin directory here



- f. Click "OK" in all windows to apply the changes after you paste the path  
On macOS/Linux: (this is what GPT said, idk how to do it)

- Open your terminal.
- Open your profile script in a text editor. For example, `~/.bash\_profile`, `~/.zshrc`, or `~/.bashrc`.
- Add the following line to the file:

```
bash                                         ⚡ Copy code
export PATH=/path/to/maven/apache-maven-3.9.6/bin:$PATH
```

- Save the file and run `source ~/.bash\_profile` (or the appropriate file name for your shell) to apply the changes.

6. Verify the installation by opening a **NEW** terminal or command prompt window.  
a. Type mvn -v and press enter, if correctly installed the result should look like this:

```
Apache Maven 3.9.6 (bc0240f3c744dd6b6ec2920b3cd08dcc295161ae)
Maven home: /opt/apache-maven-3.9.6
Java version: 1.8.0_45, vendor: Oracle Corporation
Java home: /Library/Java/JavaVirtualMachines/jdk1.8.0_45.jdk/Contents/Home/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "mac os x", version: "10.8.5", arch: "x86_64", family: "mac"
```

## Angular CLI

1. Go to: <https://nodejs.org/en> and install Node.js
2. Open Command Line (Terminal) (I think it has to be the one on your computer, not eclipse)
3. Type the following command in terminal:  
npm install -g @angular/cli

4. Verify installation with this command:

```
ng --version
```

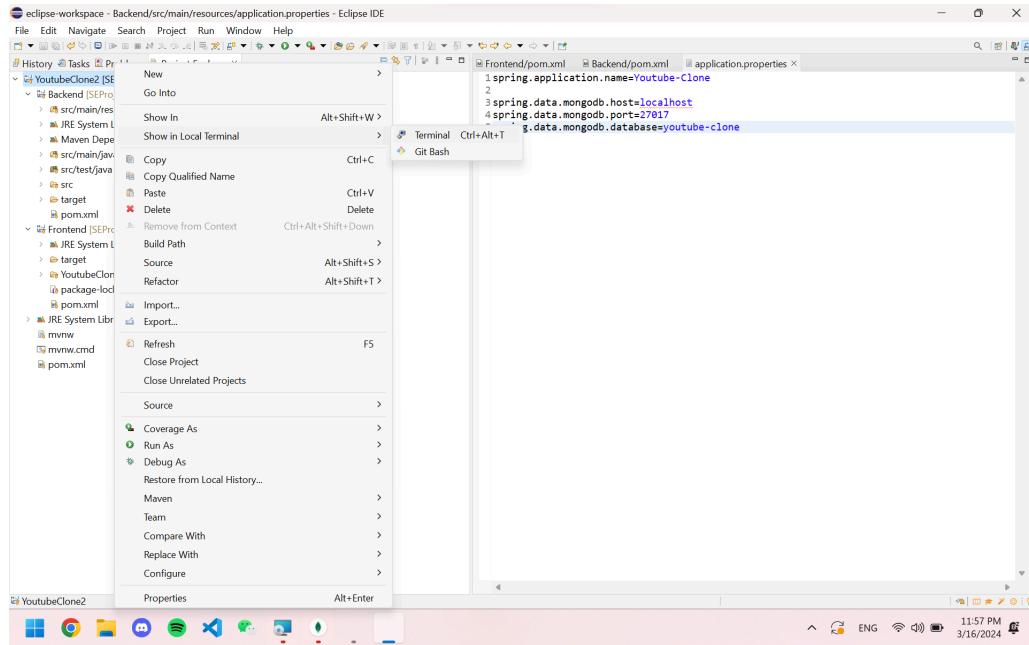
## MongoDB

1. Go to: <https://www.mongodb.com/try/download/community>
2. Download the version for your computer. (make sure you download the msi file)
3. Run the installation.

## Terminal

### Open Terminal

1. Eclipse: right click on the root folder you want to open in terminal and click on Show in Local Terminal



2. Windows: Open start search, type cmd, and open Command Prompt
3. MacOS or Linux: use Terminal application

### Check Build with Maven in Command Line

1. Open Terminal and go to the root file (a folder containing pom.xml, usually YoutubeClone2)
2. Type the command:
  - a. Option 1: mvn clean verify
  - b. Option 2: mvn clean build
  - c. Option 3: Run with debug add -X to the end of the command

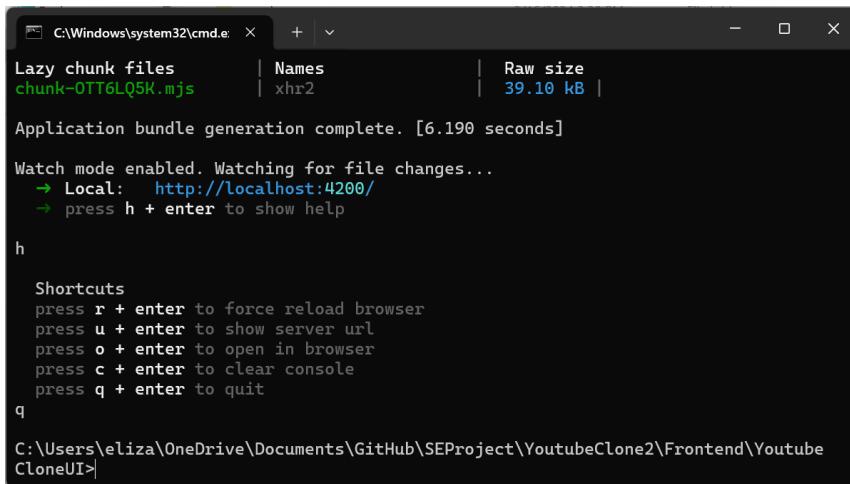
### Check Versions of Application Installed

1. Node: node -v
2. NPM: npm -v
3. MongoDB: mongod -v
4. Maven: mvn -v

## Startup

### Angular Youtube Clone Frontend UI

1. Open Command Line (Terminal)
2. Find the location of SEProject\YoutubeClone2\Frontend\YoutubeCloneUI
3. Use cd to enter the YoutubeCloneUI folder (look at last line, it should look like that)



```
C:\Windows\system32\cmd.e x + v
Lazy chunk files | Names | Raw size
chunk-OTT6LQ5K.mjs | xhr2 | 39.10 kB |

Application bundle generation complete. [6.190 seconds]

Watch mode enabled. Watching for file changes...
→ Local: http://localhost:4200/
→ press h + enter to show help

h

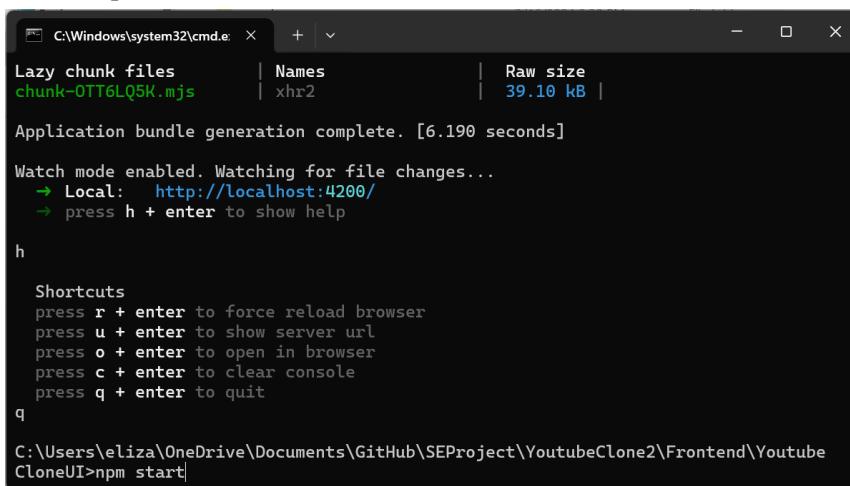
Shortcuts
press r + enter to force reload browser
press u + enter to show server url
press o + enter to open in browser
press c + enter to clear console
press q + enter to quit

q

C:\Users\eliza\OneDrive\Documents\GitHub\SEProject\YoutubeClone2\Frontend\YoutubeCloneUI>
```

4. Type command:

```
npm start
```



```
C:\Windows\system32\cmd.e x + v
Lazy chunk files | Names | Raw size
chunk-OTT6LQ5K.mjs | xhr2 | 39.10 kB |

Application bundle generation complete. [6.190 seconds]

Watch mode enabled. Watching for file changes...
→ Local: http://localhost:4200/
→ press h + enter to show help

h

Shortcuts
press r + enter to force reload browser
press u + enter to show server url
press o + enter to open in browser
press c + enter to clear console
press q + enter to quit

q

C:\Users\eliza\OneDrive\Documents\GitHub\SEProject\YoutubeClone2\Frontend\YoutubeCloneUI>npm start
```

5. After running npm start you should see this:

```
npm          + | - | x

| Initial total      | 105.86 kB

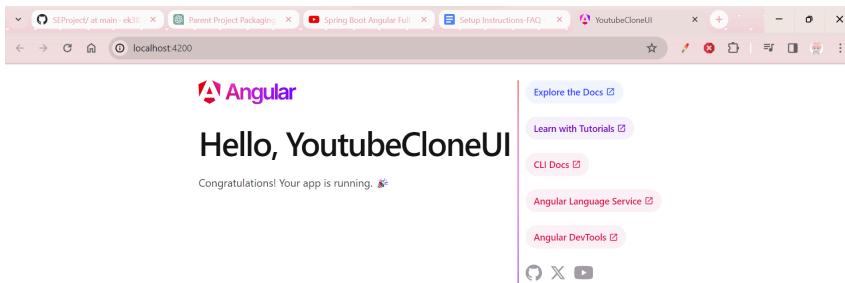
Server bundles
Initial chunk files  | Names           | Raw size
chunk-ZRXSVNH3.mjs  | -               | 1.70 MB
polyfills.server.mjs | polyfills.server | 555.05 kB
main.server.mjs     | main.server    | 215.10 kB
chunk-VPSODEBW.mjs | -               | 2.51 kB
render-utils.server.mjs | render-utils.server | 423 bytes

Lazy chunk files    | Names           | Raw size
chunk-OTT6LQ5K.mjs | xhr2            | 39.10 kB

Application bundle generation complete. [5.454 seconds]

Watch mode enabled. Watching for file changes...
→ Local: http://localhost:4200/
→ press h + enter to show help
```

6. Go to the link after Local and it should look something like this:



---

\* to go back to command line, follow instructions for help and then instructions for quit