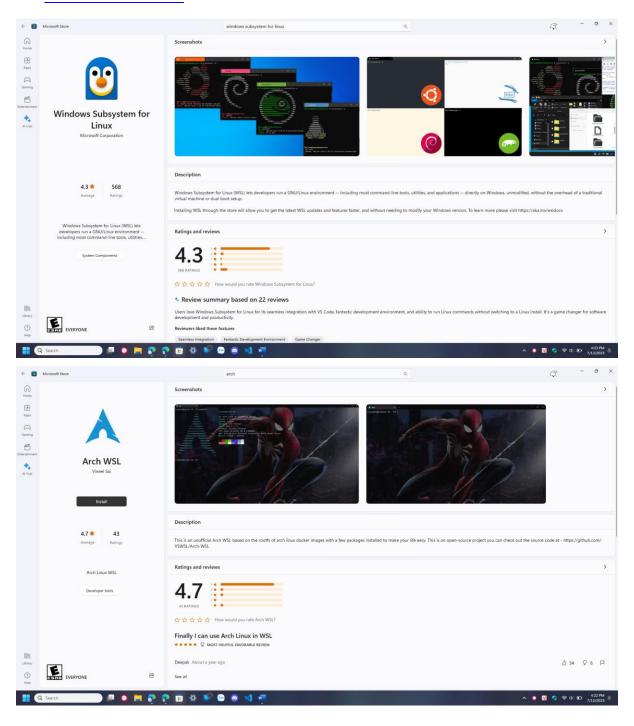
INSTALLATION INSTRUCTIONS

Group 12

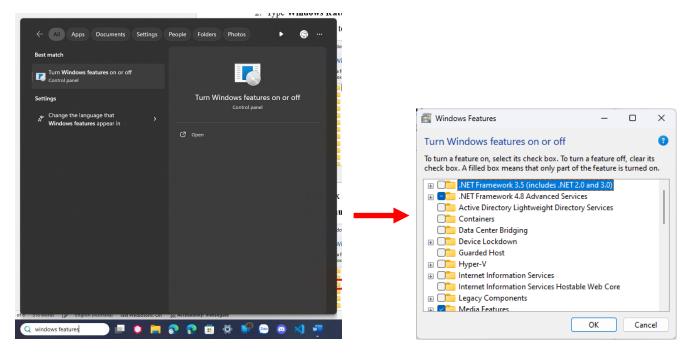
I. Install WSL and Arch WSL from the Microsoft Store

Link to WSL

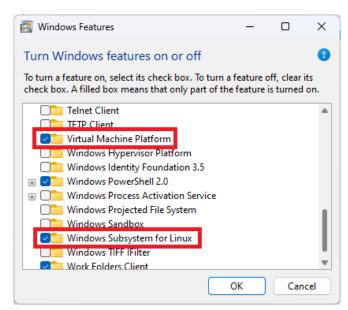
Link to Arch WSL



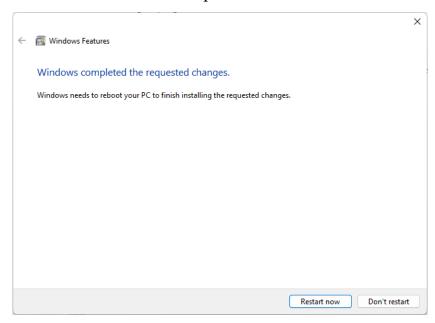
- Click on **Install** to download and install the application.
- Once installed, we need to enable some Windows features for WSL to work as follows:
 - 1. Press Win + S at the same time to launch the search box.
 - 2. Type Windows features in the search box then click on Turn Windows Features on or off to open the window in the screenshot directly below.



3. Select the checkbox next to Virtual Machine Platform and Windows Subsystem for Linux then click on OK



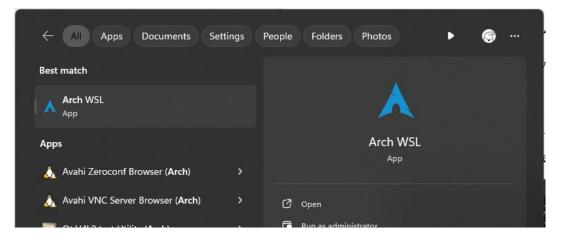
4. A Windows Feature wizard will then open and ask you to restart the platform. Click the **Restart Now** option on that window.



5. Once your machine has finished rebooting, you're now ready to begin using Arch on WSL

II. Set up Arch WSL

- Launch the search box, type \mathbf{Arch} then click on \mathbf{Arch} \mathbf{WSL}



- Once it has finished its initial setup, you will need to create a username and password (this does not need to match your Windows user credentials).

```
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username:
```

- It's always good practice to install the latest updates with the following commands, entering your password when prompted:

sudo pacman -Syu

Enter Y when prompted whether to proceed with the installation.

```
ducanh@imlda:~
 core/gnutls
                                                                          3.8.1-2
                                                                                                           3.8.2-1
                                                                                                                                             0.02 MiB
0.00 MiB
0.03 MiB
0.00 MiB
0.01 MiB
0.00 MiB
0.07 MiB
0.01 MiB
0.00 MiB
core/gpgme
core/hwdata
                                                                          1.23.1-1
0.375-2
                                                                                                          1.23.2-1
0.376-1
                                                                                                                                                                                     0.47 MiB
1.57 MiB
                                                                          20231018-1
core/iana-etc
core/iproute2
                                                                                                          20231117-1
                                                                                                                                                                                    0.39 MiB
1.09 MiB
                                                                          6.5.0-1
1:1.8.9-1
2.69-1
core/iptables
core/libcap
core/libelf
core/libgcrypt
core/libksba
                                                                                                          1:1.8.10-1
2.69-3
                                                                                                                                                                                    0.43 MiB
0.68 MiB
0.54 MiB
                                                                          0.189-3
                                                                                                          0.190-1
                                                                                                          1.10.3-1
1.6.5-1
3.9.0-1
                                                                                                                                                                                    0.14 MiB
0.41 MiB
0.50 MiB
 core/libnl
core/libp11-kit
                                                                                                          0.25.3-1
2.12.2-1
0.25.3-1
                                                                          0.25.2-1
core/libxml2
core/p11-kit
                                                                                                                                                                                    0.82 MiB
0.23 MiB
                                                                                                          5.38.1-1
2.1.0-2
8.2.007-1
3.44.2-2
core/perl
core/pkgconf
core/readline
core/sqlite
                                                                                                                                                                                  20.23 MiB
0.06 MiB
0.32 MiB
1.63 MiB
                                                                          5.38.0-1
1.8.1-1
                                                                           8.2.001-2
3.44.0-1
                                                                          1.9.14.p3-1
254.5-1
254.5-1
254.5-1
                                                                                                          1.9.15.p2-1
254.6-2
254.6-2
254.6-2
core/sudo
core/systemd
                                                                                                                                                                                     1.88 MiB
7.69 MiB
core/systemd-libs
core/systemd-sysvcompat
core/texinfo
core/util-linux
core/util-linux-libs
                                                                                                                                                                                    1.06 MiB
0.01 MiB
                                                                          7.1-1
2.39.2-1
                                                                                                                                                                                    1.68 MiB
2.77 MiB
                                                                          2.39.2-1
9.0.2070-1
                                                                                                          2.39.3-1
9.0.2143-1
                                                                                                                                                0.00 MiB
0.01 MiB
                                                                                                                                                                                    0.44 MiB
2.18 MiB
 extra/vim
 extra/vim-runtime
core/xz
                                                                           9.0.2070-1
5.4.4-1
                                                                                                                                                0.06 MiB
0.00 MiB
                                                                                                           9.0.2143-1
                                                                                                                                                                                      6.89 MiB
 Total Download Size:
Total Installed Size:
                                                         293.42 MiB
  :: Proceed with installation? [Y/n]
```

- Now we will install some packages (so that out program can run) with following commands, entering your password when prompted.

Install git

- To **Ensure** a git installation exists, enter the following command:

```
sudo pacman -S git
```

III. Clone our project from Github

- Make sure your current working directory is the home directory by typing cd then press Enter
- Clone our project and switch to it

```
git clone https://github.com/Harito97/DynamicMaze.git
```

- Once done, switch to the cloned directory

```
cd DynamicMaze
```

- Install the necessary packages with the following command:

```
sudo chmod +x requirements.sh
./requirements.sh
```

NOTE THAT:

- Enter your password when prompted.
- Accept the default number of packages by pressing Enter.
- Enter Y when prompted whether to proceed with the installation.

You are finally ready to run our project!

- Switch to the **backend** folder

```
cd backend
```

- We have already compiled the program, so you can simply run it with the following command:

```
sudo chmod +x Main
./Main
```

- Open another terminal of Arch WSL (Launch the search box, type Arch then click on Arch WSL).
- Switch to the **frontend** folder

cd DynamicMaze/frontend

- Once you're inside the **frontend** folder, run the following command to install the dependencies required for the project:

npm i

- In case of issues shown after the npm install, run the below to automatically fix the issues:

npm audit fix

- Start the development server:

npm start

- This command will start a local development server and run the React project in your web browser. You can access the project by navigating to http://localhost:3000 in your web browser.

