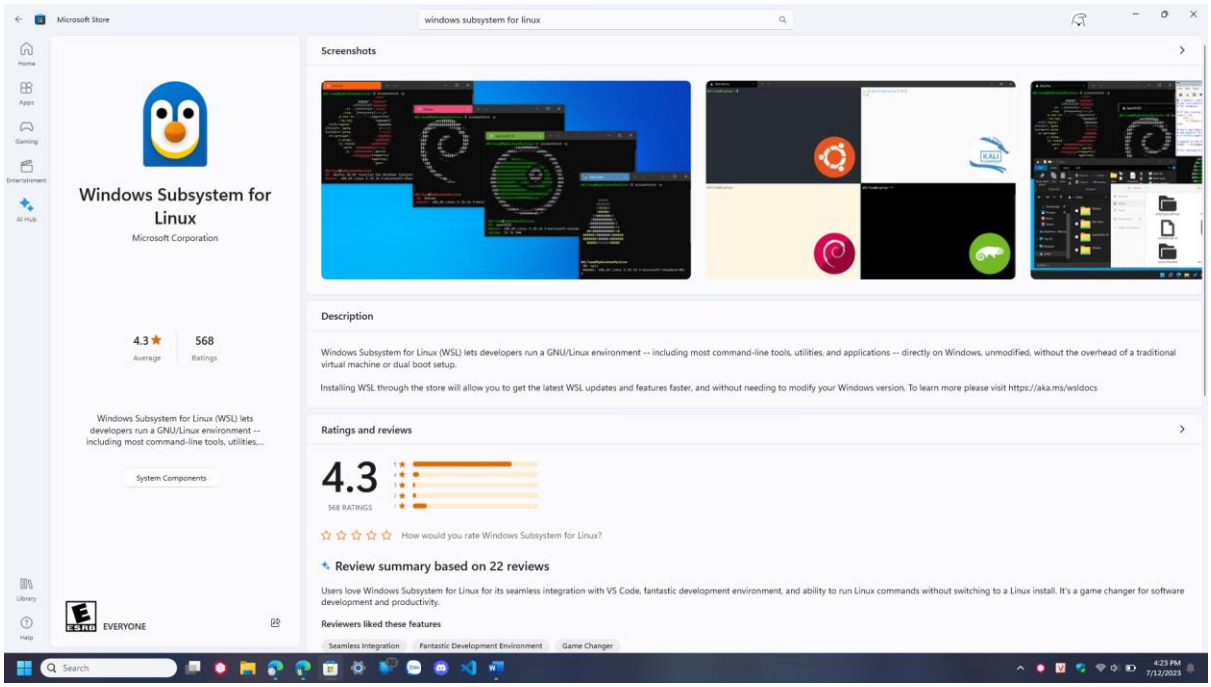
INSTALLATION INSTRUCTIONS

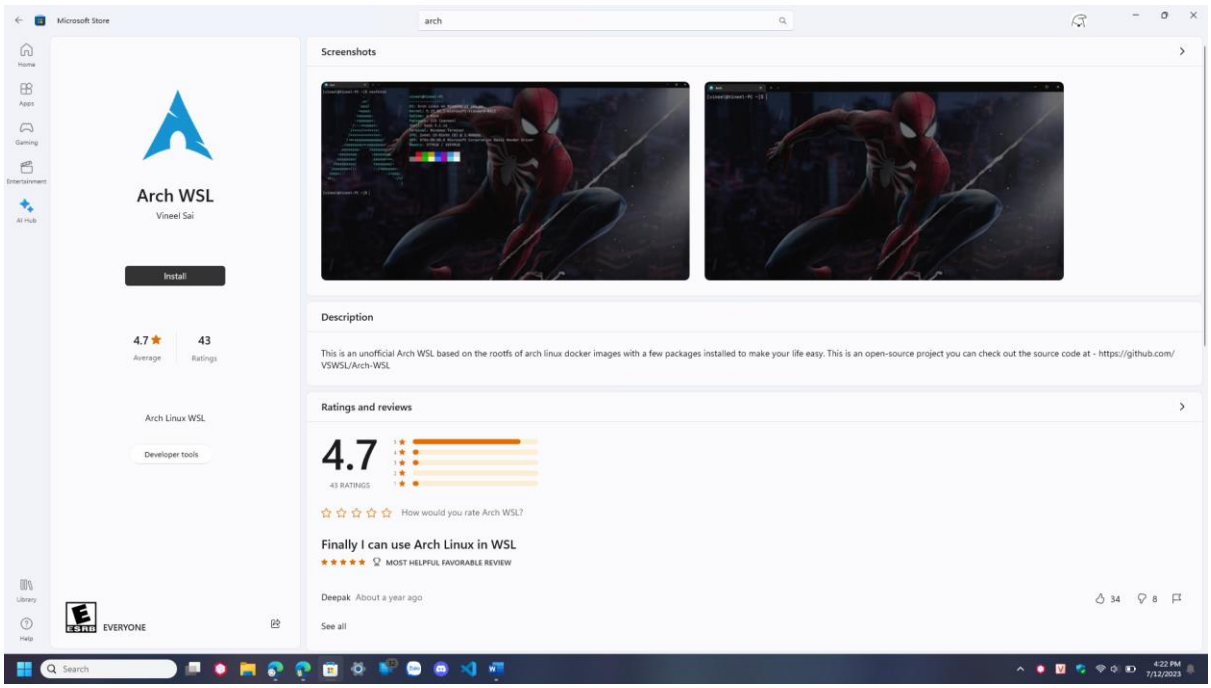
Group 12

I. Install WSL and Arch WSL from the Microsoft Store

[Link to WSL]

[Link to Arch WSL]

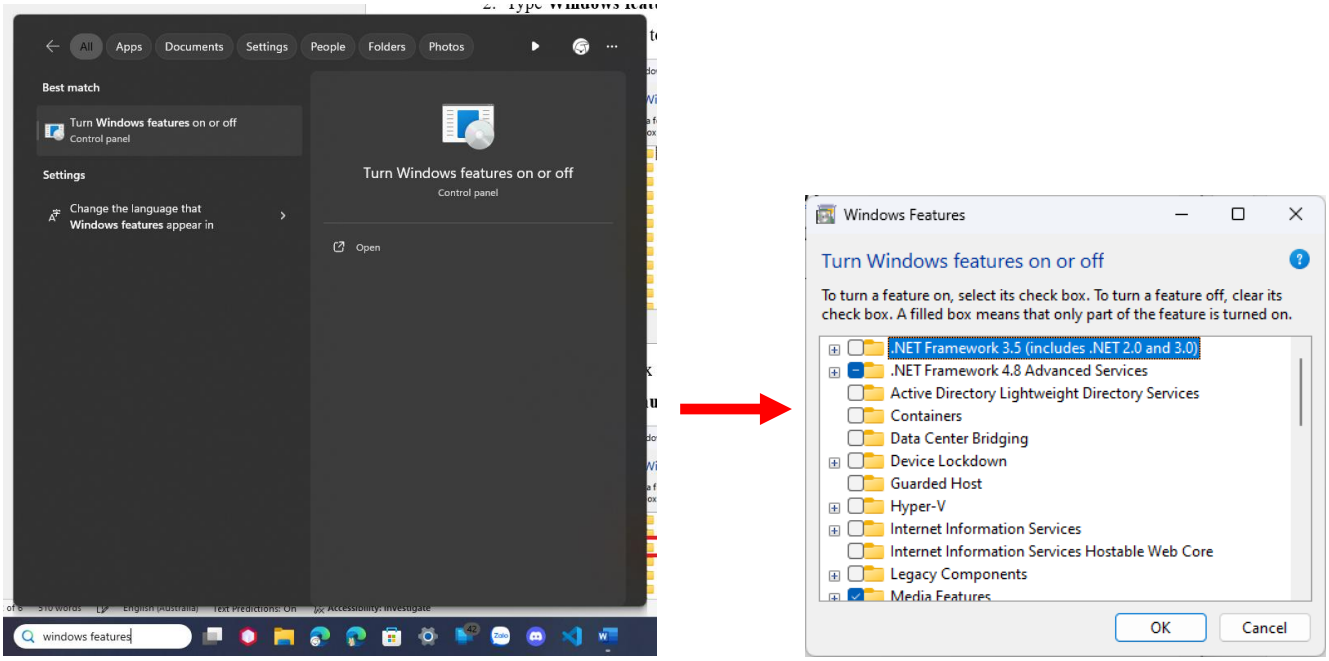




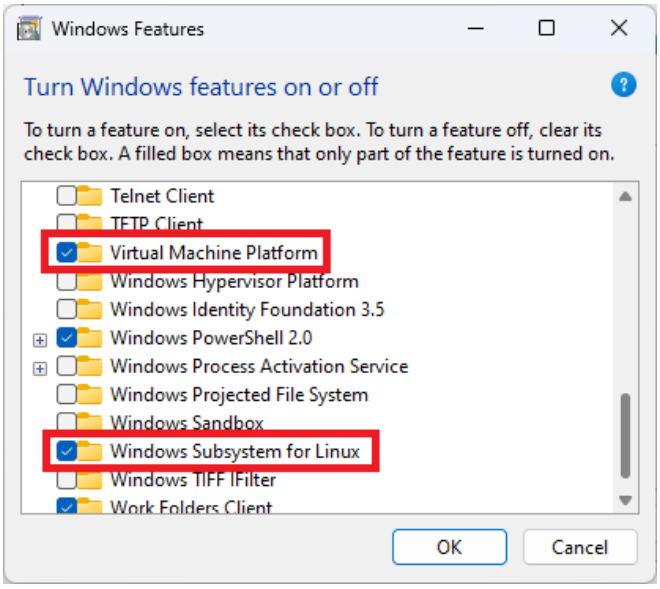
- Click on **Install** to download and install the application.

- Once installed, we need to enable some Windows features for WSL to work as follows:

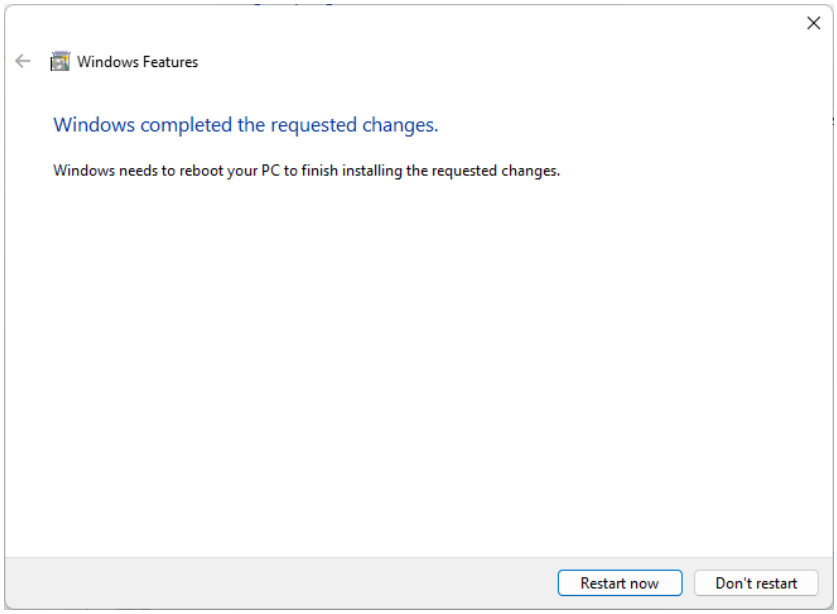
1. Press **Win + S** at the same time to launch the search box.
2. Type **Windows features** in the search box then click on **Turn Windows Features on or off** to open the window in the screenshot directly below.



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



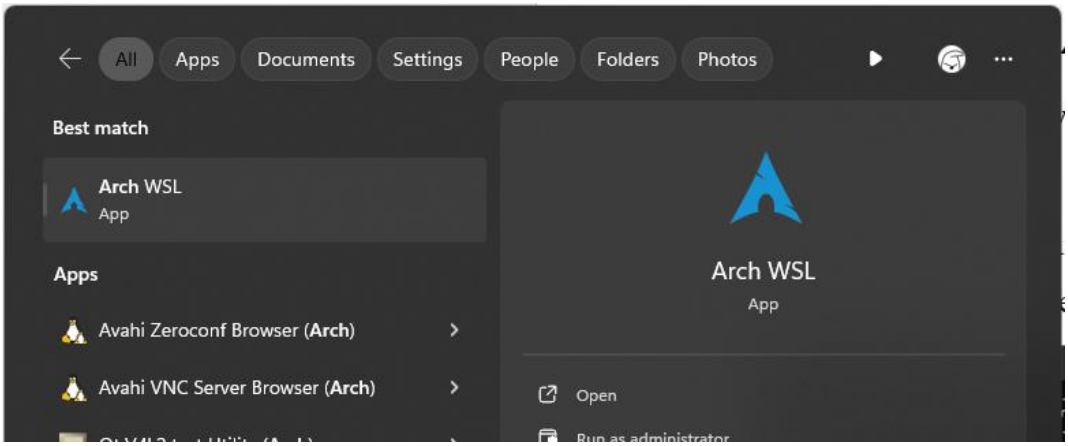
4. A Windows Feature wizard will then open and ask you to restart the platform. Click the **Restart Now** option on that window.



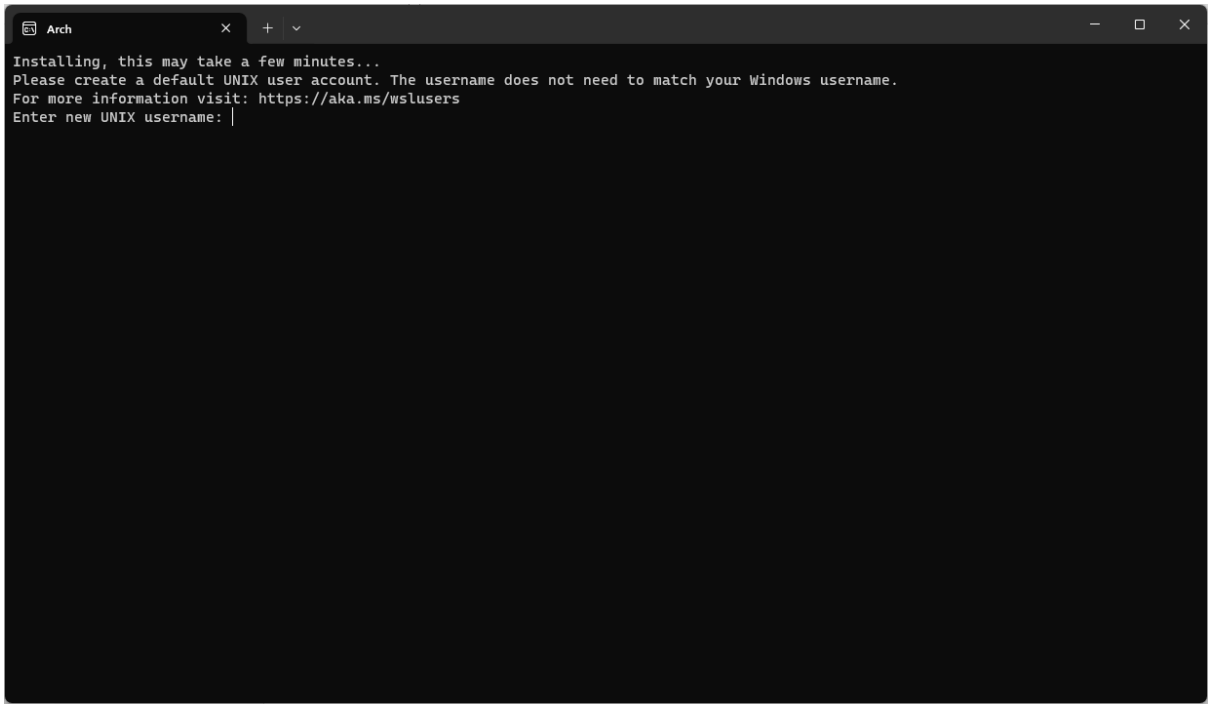
5. Once your machine has finished rebooting, you're now ready to begin using Arch on WSL

II. Set up Arch WSL

- Launch the search box, type **Arch** then click on **Arch WSL**



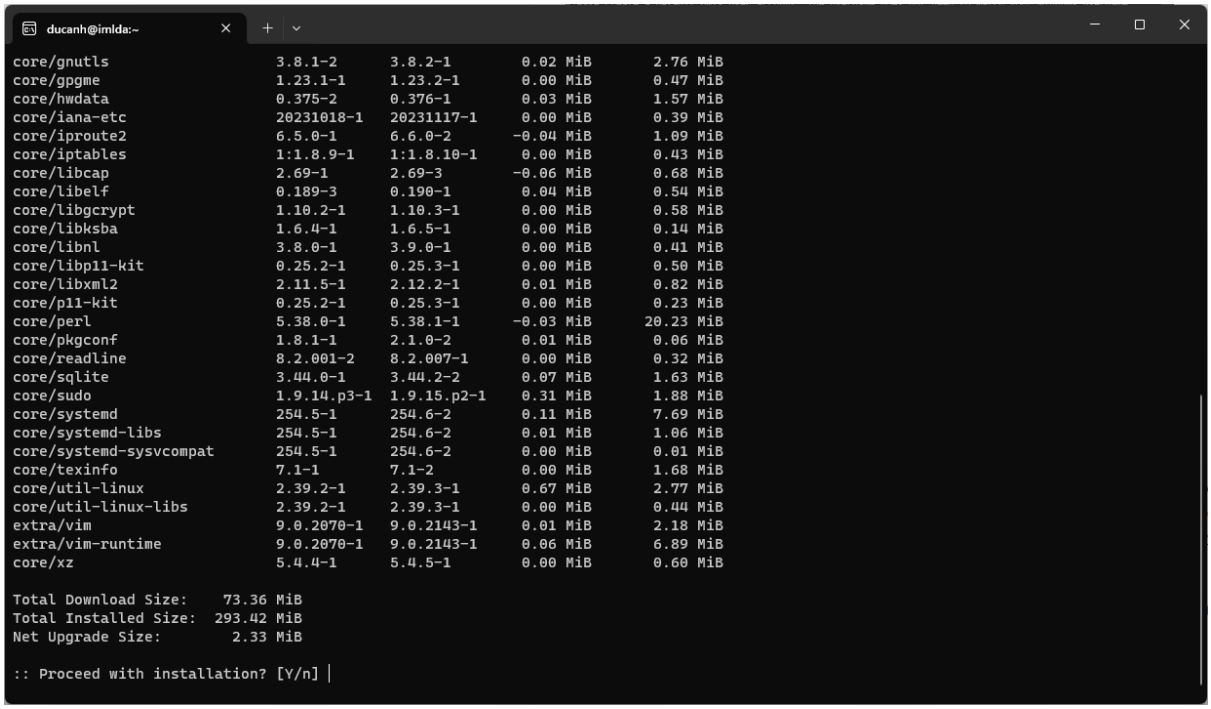
- Once it has finished its initial setup, you will need to create a username and password (this does not need to match your Windows user credentials).



- 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.



- 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.