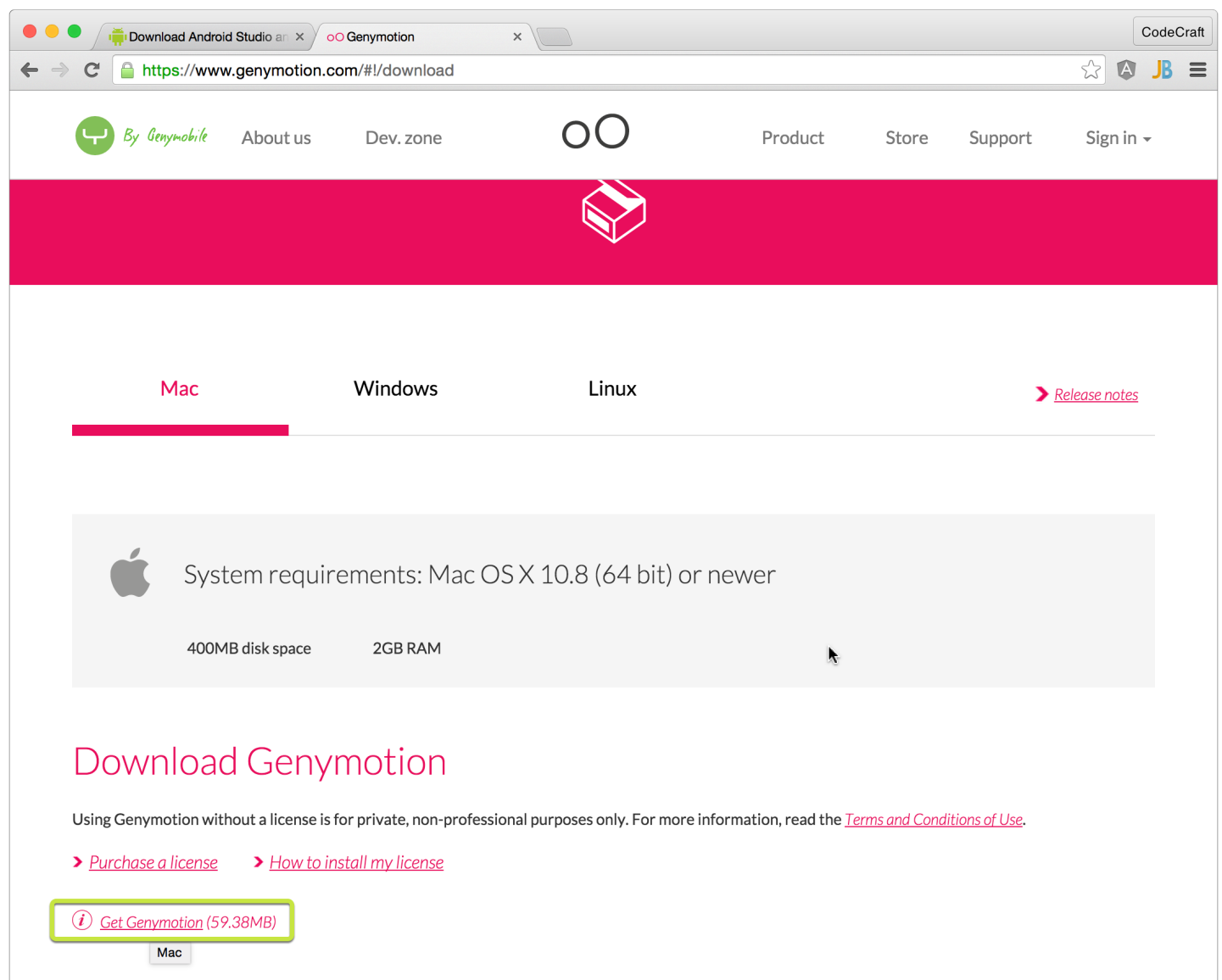


For Android the default emulator is incredibly slow, it's not even recommended for native android development!

Instead it's recommended to either use the 3rd party Genymotion emulator. Or to test on an actual device (*my preferred choice*).

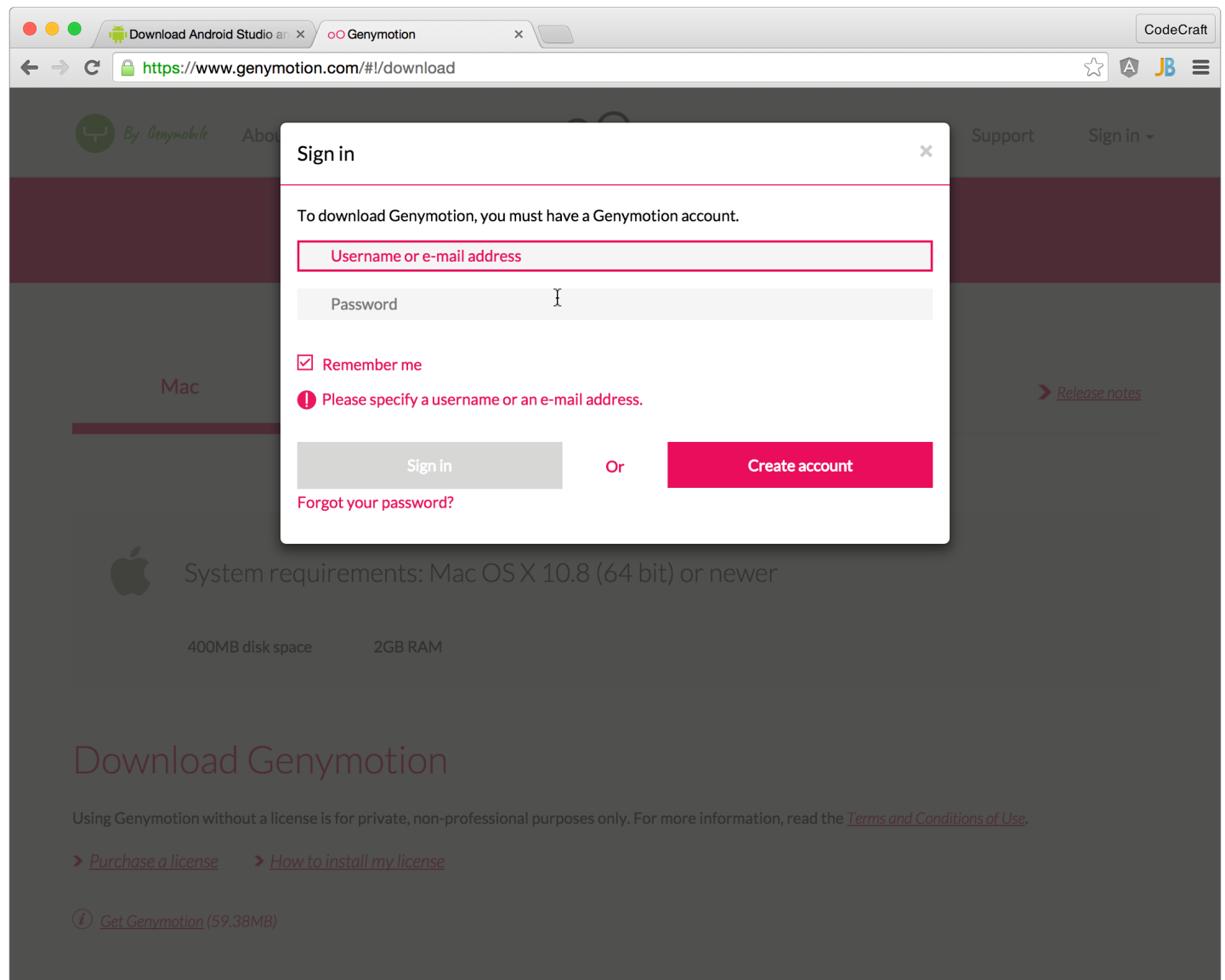
## Download the Genymotion emulator

To install the emulator go to <https://www.genymotion.com/#!/download>, choose your OS and press Get Genymotion.



## Create an account on the Genymotion platform

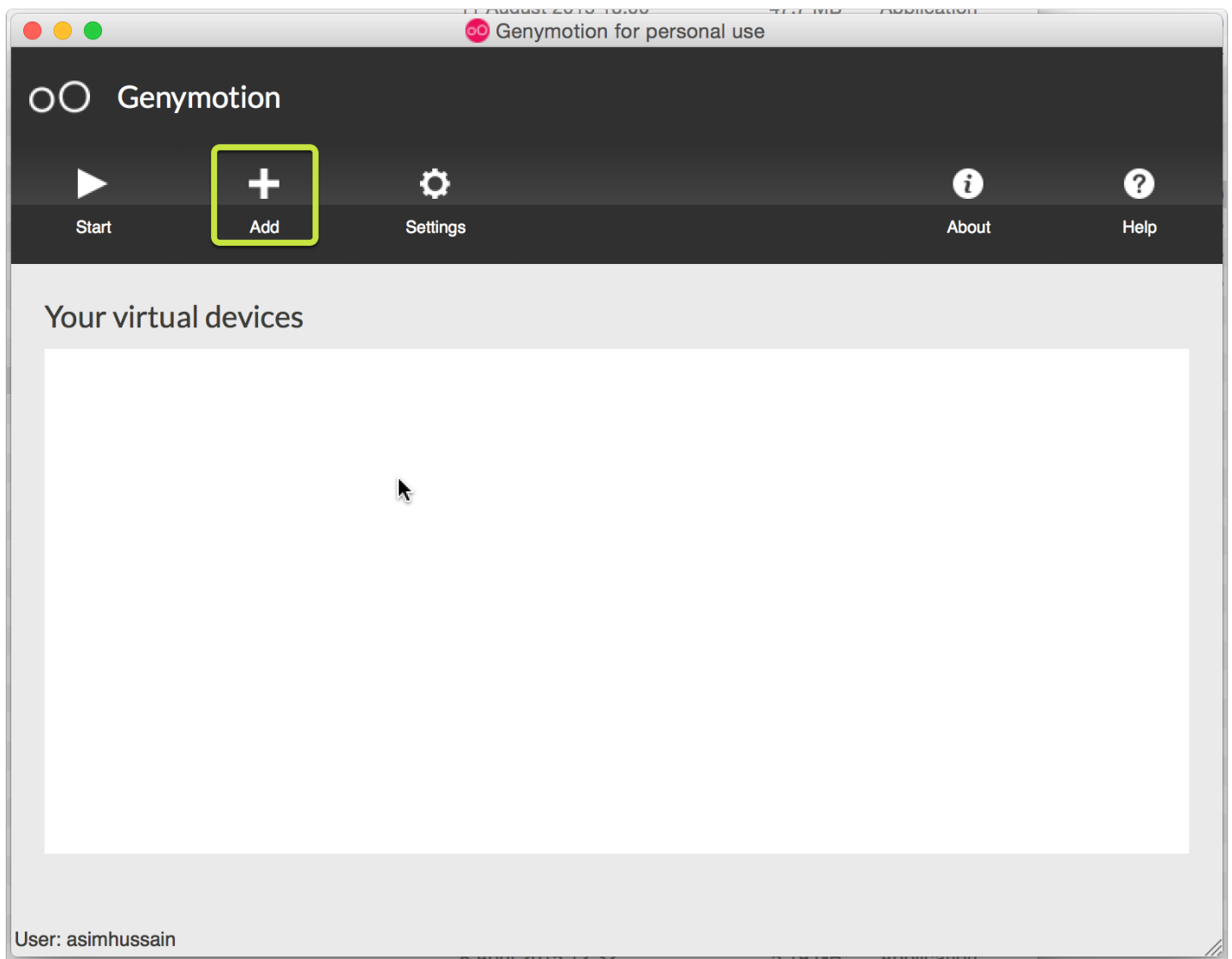
You need an account on Genymotion to be able to use the emulator, it's free so just create an account and use it to signin.



## Create a Virtual Android Device

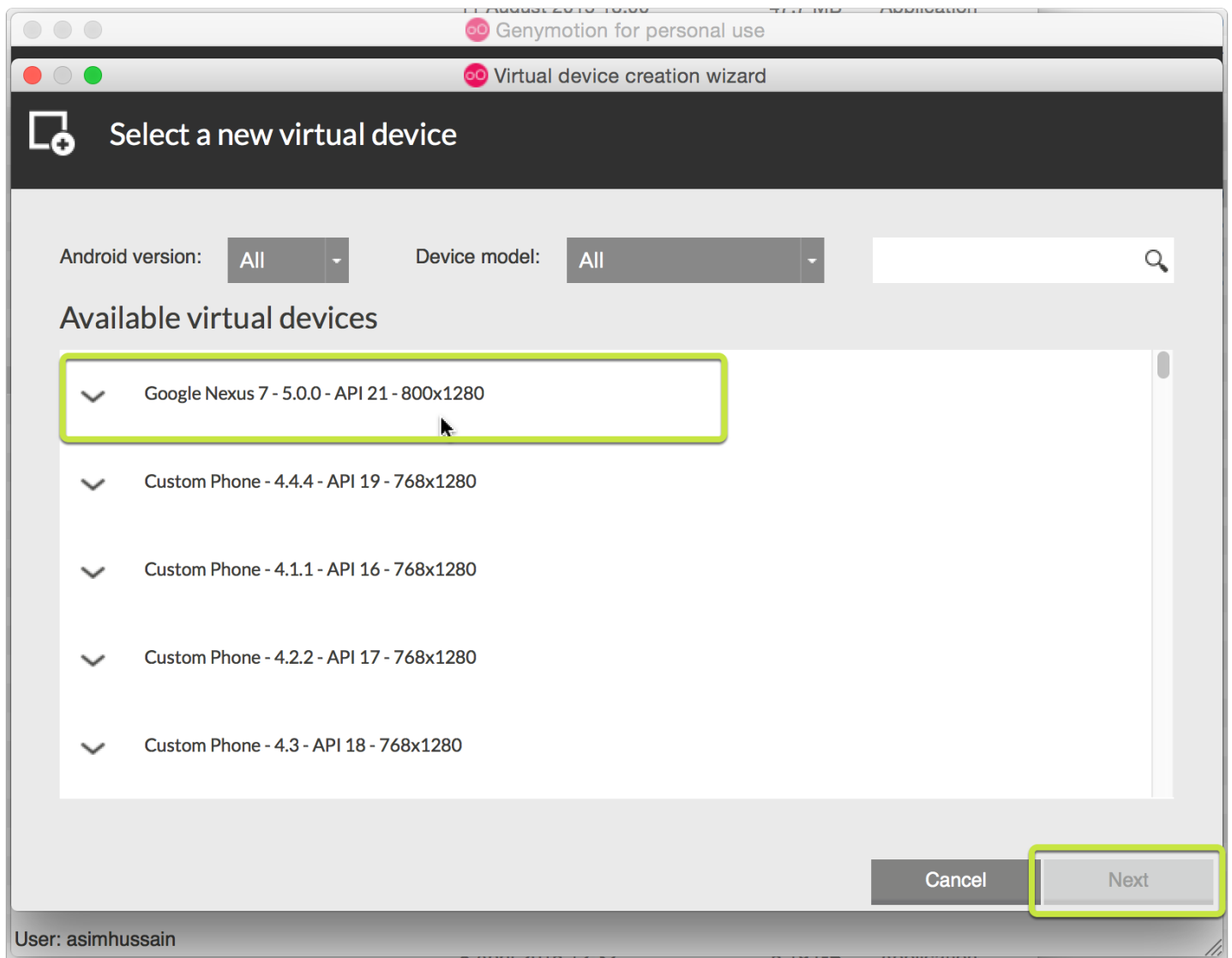
With Android you can create multiple different types of emulators, for different android phones.

- Press Add



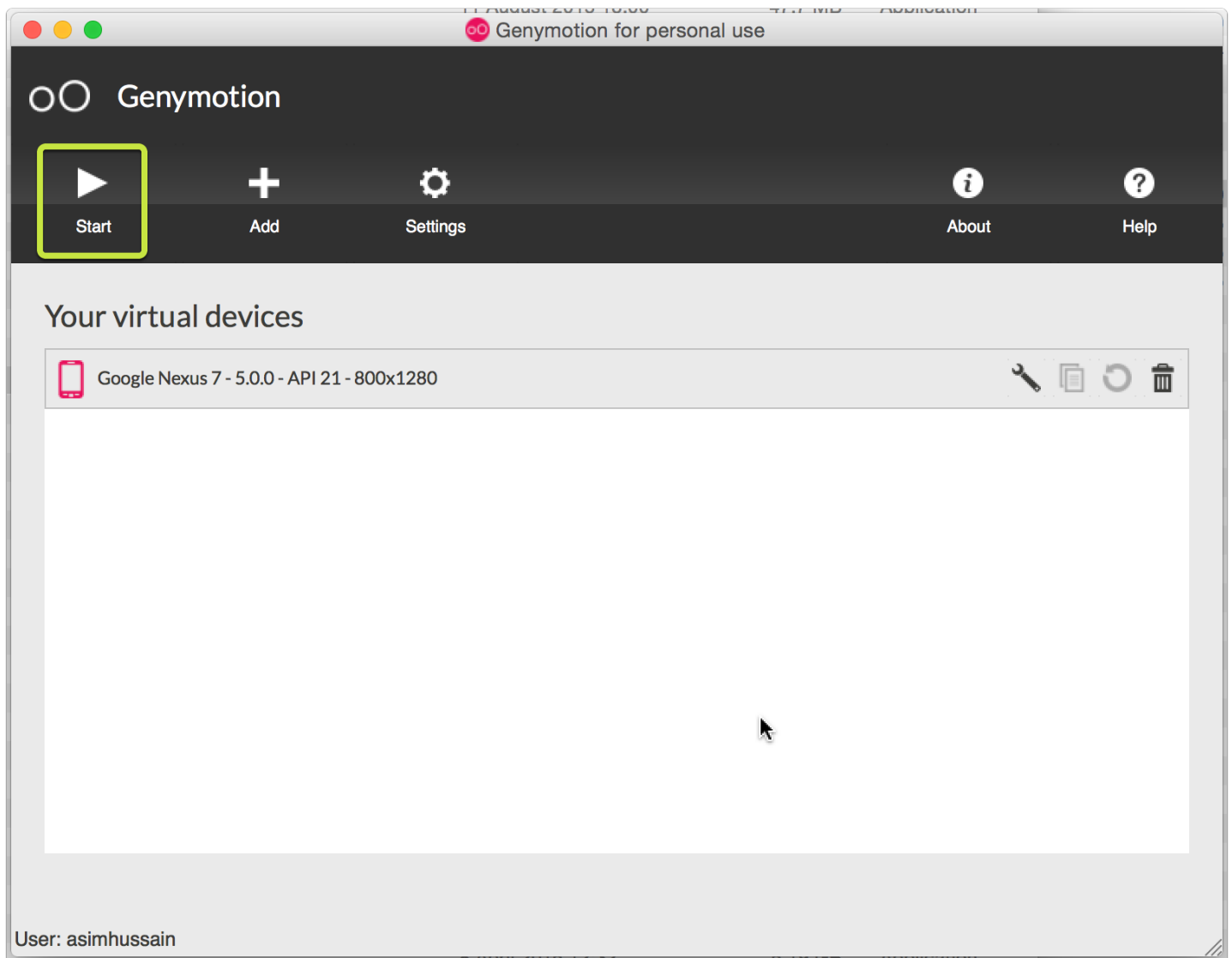
## Virtual device creation wizard

- A popup appears, choose a device that's the same API version of the Android SDK that you downloaded or lower.
- i'm going to create a device for the API version 21.



## Start the Device

Select the device you want to run and then press **START**.



## Ensure the device is running and can be found

You can double check everything is running correctly by typing

```
adb devices -l
```

into the terminal, it will print out a list of the android devices it can locate (double check the version is the one you've just started with Genymotion)

```
➔ myapp adb devices -l
List of devices attached
192.168.57.101:5555    device product:vbox86p model:Google_Nexus_4__5_1_0__API_22__
```

## Run the application on the emulator

To actually run the android app on the Genymotion emulator we **DON'T** type **emulate**, instead we use the run command:

```
ionic run android
```

OR if we want live reload functionality we can type

```
ionic run android -cls
```

