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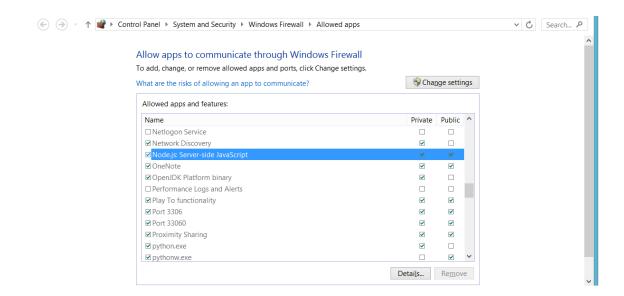
## **Magic Wand User Guide**

## Tech Stack:

- Python
- Node.js
- React Native

## **Deployment:**

- Download project source code from our Github repository
- Install the required python libraries from requirement.txt
  >pip install -r requirements.txt
- Install Node.js
- Allow public network access in Firewall if you have it enabled.
  For Windows users, go to firewall setting in your PC and allow public network access to node.js server.



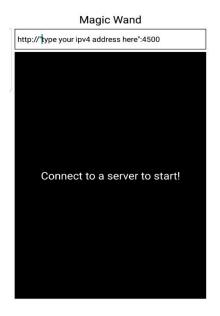
- Navigate to MagicWand/ magic-wand-backend directory and run "npm install" on your command prompt (Installs all the node package dependencies)
- Now, run server.js file >node server.js
- Navigate to MagicWand/python-client/ directory and run "client.py" file (keeps requesting node server for new gesture and simulates keyboard presses)
  >python client.py
- Install Magic Wand.apk file on an android phone.
- In command prompt, type "ipconfig" (Windows Users), and "ifconfig" (Mac and Linux users) and copy your ipv4 address to input in the mobile app.

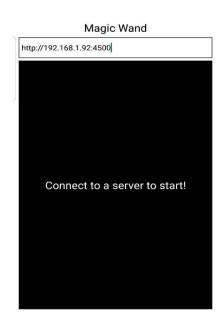


Windows:

Linux and Mac:

• In the mobile application, connect to the local server using the following format For example:

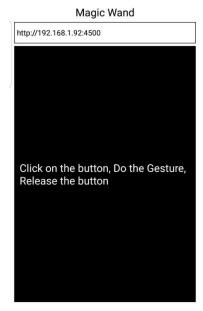




• After the application is opened, the below window will open:







- Hold the black button and perform any gesture. To check if it works, check the node server.js logs if you can see the accelerometer and gyroscope values.
- If you need to change the keyboard mapping for any gesture, you can change it in client.py file
- For a demo of the working of the app, you can view: <a href="https://youtu.be/U9QK4XHbvvk">https://youtu.be/U9QK4XHbvvk</a>



