

## TigerGrub Installation instructions

1. Download required dev packages
  - a. Node.js – React Native package
    - i. <https://nodejs.org/en>
    - ii. Select Download from options across header
    - iii. Select download for your OS and download the installer.
    - iv. Run the installer
  - b. Android Studio Emulator (optional, required for mobile testing but you can develop using the web version as well)
    1. Instructions at <https://docs.expo.dev/workflow/android-studio-emulator/> for both Linux and Windows
    2. If you use VSCode, there is also an extension called Android SDK, although I have not personally used it and cannot say how well it works.
  - c. Python
    - i. Tutorial available at <https://www.geeksforgeeks.org/how-to-install-python-on-windows/>
2. Clone the repository
  - a. Open Powershell or Git Bash
  - b. Navigate to the desired folder to clone the repository
  - c. git clone <https://github.com/Amanda-2/TigerGrub.git>
3. To run the app, you need two terminals, one for the server and one for the app
  - a. In the server terminal, run these commands:
    - i. cd server
    - ii. pip install flask
    - iii. pip install flask\_cors
    - iv. pip install mysql-connector-python
    - v. python app.py
    - vi. To stop the server, type ctrl+C
  - b. In the app terminal, run these commands:
    - i. npm install
    - ii. npx expo start
    - iii. (Optional) If you've installed Android Studio Emulator and set it up, you can type "a" into this terminal and it should open the emulator and automatically open the app on the emulated device.
    - iv. To stop the server, type ctrl+C

## Debugging / Tips

- If the app is open, but displaying an empty screen, there may be an issue with your laptop's firewall or the emulator firewall. Open a new terminal, different from the expo terminal or the python server terminal, and type the command "adb reverse tcp:5000 tcp:5000"
- If the app is open on the emulator but not reflecting changes you make to the code, the connection may be stale. Exit the app (but not the emulator) using the home button, and close the app and the Expo Go app. Then, reopen the Expo Go app and either select TigerGrub from the recents or use the exp:// link provided by the expo server on start.
- You can develop using the web-only version of Expo Go, skipping the need for the Android Studio Simulator. Expo Go automatically packages the app based on the device, meaning any changes you make to the code will also reflect on the android app.