

# Developer User Guide

# **SketchTogether**

---

Pranav Agrawala, Kunal Singh

May 16, 2024

---

# Table of Contents

1. Application Purpose
2. Installation
3. Starting Up Server

---

## Application Purpose

### ***Problem -***

Teams often find problems collaborating with each other virtually, especially during real-time brainstorming, planning, or sketching. Emailing and messaging can lead to disorganized communication and unsynchronized ideas from team members.

### ***Solution -***

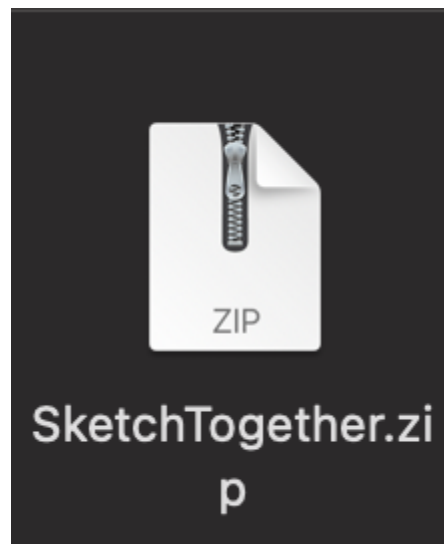
Our collaborative whiteboard offers a solution to this problem by allowing users to seamlessly join rooms with others and update the whiteboard in real-time.



**Sketch**  
**• TOGETHER •**

## Installation

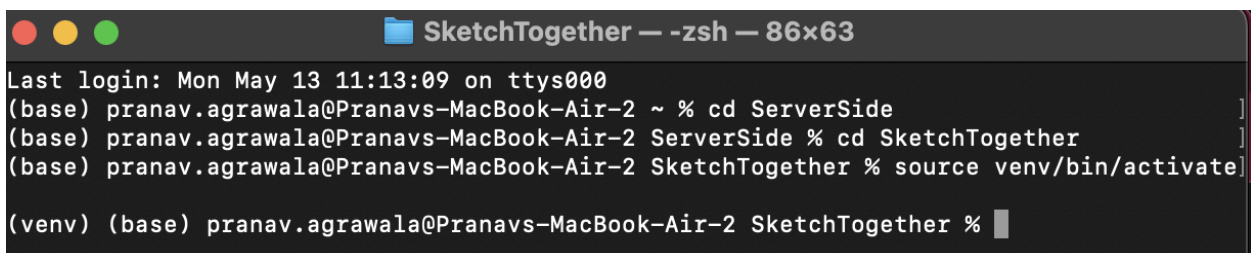
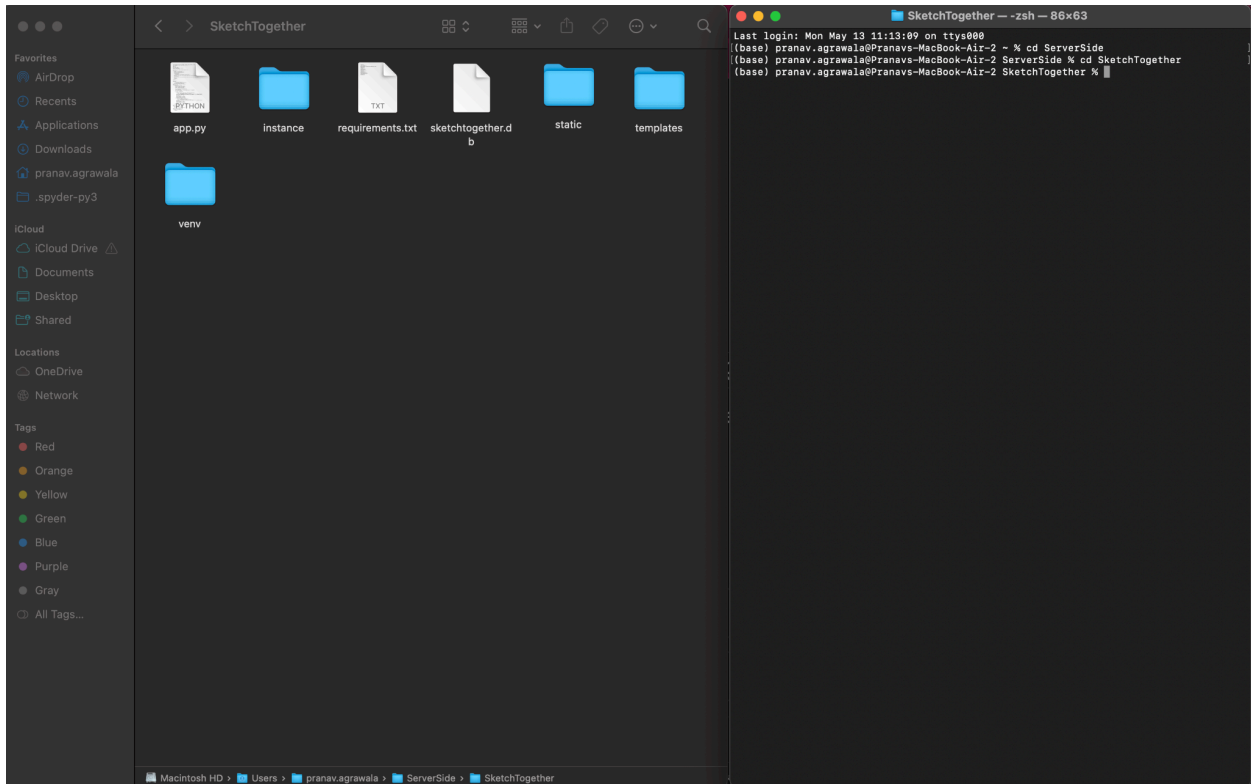
- 1) **System Requirements:** To run the server for the web application, you need any computer that is capable of running Python.
- 2) **Installation Process:** Make sure you have [Python](#) downloaded on your computer. Unzip the zip file provided to you, and keep track of the directory of the folder retrieved from unzipping the file. After unzipping the file, go to Terminal and navigate inside the project folder. To ensure protection of your device, set up a virtual environment inside the project by executing “python -m venv venv” in Terminal. Then, execute the command “source venv/bin/activate” in Terminal to enter the virtual environment. After that, run “pip install -r requirements.txt” in Terminal to install all the dependencies and packages needed to run the application.



```
(base) pranav.agrawala@Pranavs-MacBook-Air-2 ~ % python3 -m venv venv
```

# Starting Up Server

- 1) Open Terminal
- 2) Navigate to the directory that the app.py file is in
- 3) Execute “source venv/bin/activate” to join the virtual environment
- 4) Execute “python app.py” in Terminal to start the server



```
SketchTogether — python ◀ python app.py — 124x24
Last login: Mon May 13 11:28:17 on ttys000
(base) pranav.agrawala@Pranavs-MacBook-Air-2 ~ % cd ServerSide
(base) pranav.agrawala@Pranavs-MacBook-Air-2 ServerSide % cd SketchTogether
(base) pranav.agrawala@Pranavs-MacBook-Air-2 SketchTogether % source venv/bin/activate
(venv) (base) pranav.agrawala@Pranavs-MacBook-Air-2 SketchTogether % python app.py

SketchTogether — python ◀ python app.py — 124x24
Last login: Mon May 13 11:28:17 on ttys000
(base) pranav.agrawala@Pranavs-MacBook-Air-2 ~ % cd ServerSide
(base) pranav.agrawala@Pranavs-MacBook-Air-2 ServerSide % cd SketchTogether
(base) pranav.agrawala@Pranavs-MacBook-Air-2 SketchTogether % source venv/bin/activate
(venv) (base) pranav.agrawala@Pranavs-MacBook-Air-2 SketchTogether % python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5001
* Running on http://10.50.54.35:5001
Press CTRL+C to quit
* Restarting with watchdog (fsevents)
* Debugger is active!
* Debugger PIN: 138-072-172
```

Once you see that the server has started, your server is now up and running!

**Note:** If users in other devices are using the application, send your IPv4 Address to them so they can join your server.