

**Set up the Video Demo React App on your laptop.  
React Screen shots with description.**

Video Group room

<https://www.twilio.com/docs/video/tutorials/understanding-video-rooms#video-group-rooms>

Both signaling and media is routed via twilio

Room Name: Avatars

SID: RMc0076da31213941de205c22641a00cd2

The screenshot shows a browser window with the URL `video-app-0309-1033-dev.twilio.io`. The main content is a "Join a Room" form. On the left, there's a red sidebar with a video camera icon and the text "Twilio Programmable Video". The main form has fields for "Your Name" (containing "Aang") and "Room Name" (containing "Avatars"). A "Continue" button is at the bottom right of the form. The browser's address bar shows the full URL. To the right of the main content is the Chrome DevTools Network tab. It displays a list of network requests with columns for Name, Status, Type, Initiator, Size, and Time. Key entries include:

Name	Status	Type	Initiator	Size	Time
video-app-0309-1033-dev...	200	document	Other	923 B	890 ms
UoC73wrK3lTeHuS_vtQ...	200	font	css	(memory)	0 ms
main.8636b258.js	304	script	(index):0	148 B	361 ms
token	200	fetch	usePasscodeAuth	661 B	2.90 s
data:image/svg+xml,...	200	svg+xml	Other	(memory)	0 ms
tflite-simd-1-0-0.js	200	script	useBackground	19.4 kB	1.40 s
selfie_segmentation_lands...	200	fetch	useBackground	250 kB	3.98 s
data:image/svg+xml,...	200	svg+xml	shared.js:28	(memory)	0 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-1	2.6 MB	6.97 s
Abstract.bf969afc331e21...	200	jpeg	useBackground	85.6 kB	413 ms
selfie_segmentation_lands...	200	fetch	useBackground	(disk ...)	2 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-1	(disk ...)	6 ms

At the bottom of the DevTools, it says "12 requests | 3.0 MB transferred | 8.3 MB resources | Finish: 13.17 s | DOMContentLoaded".

Chrome File Edit View History Bookmarks Profiles Tab Window Help

video-app-0309-1033-dev.twilio.com Mon 24 Jun 9:24PM

Twilio tools INFO Debug roshan

Logout

Join Avatars

Twilio Programmable Video

Mute Stop Video

Noise Cancellation Enabled

Settings Cancel Join Now

Network tab in DevTools showing network requests:

Name	Status	Type	Initiator	Size	Time
video-app-0309-1033-dev...	200	document	Other	923 B	890 ms
UcC73FwrK3lTeHuS_fvQt...	200	font	css (mem...	0 ms	0 ms
main.86366258.js	304	script	(index):0	148 B	361 ms
token	200	fetch	usePasscodeAu...	661 B	2.90 s
data:image/svg+xml,...	200	svg+xml	Other (mem...	0 ms	0 ms
tflite-simd-1-0-0.js	200	script	useBackgroundd...	19.4 kB	1.40 s
selfie_segmentation_lands...	200	fetch	useBackgroundd...	250 kB	3.98 s
data:image/svg+xml,...	200	svg+xml	shared.js:28 (mem...	0 ms	0 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-1...	2.6 MB	6.97 ms
Abstract.b9f69fcfa331e21...	200	jpeg	useBackgroundd...	85.6 kB	413 ms
selfie_segmentation_lands...	200	fetch	useBackgroundd...	disk c...	2 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-1...	disk c...	6 ms
krispsdk.mjs	304	script	VM83:3	282 B	847 ms
model_32.kw	200	xhr	krispsdk.mjs:20	5.9 MB	3.15 s

14 requests | 8.9 MB transferred | 14.2 MB resources | Finish: 31.1 min | DOMContent

Chrome File Edit View History Bookmarks Profiles Tab Window Help

video-app-0309-1033-dev.twilio.com Mon 24 Jun 9:24PM

Twilio tools INFO Debug roshan

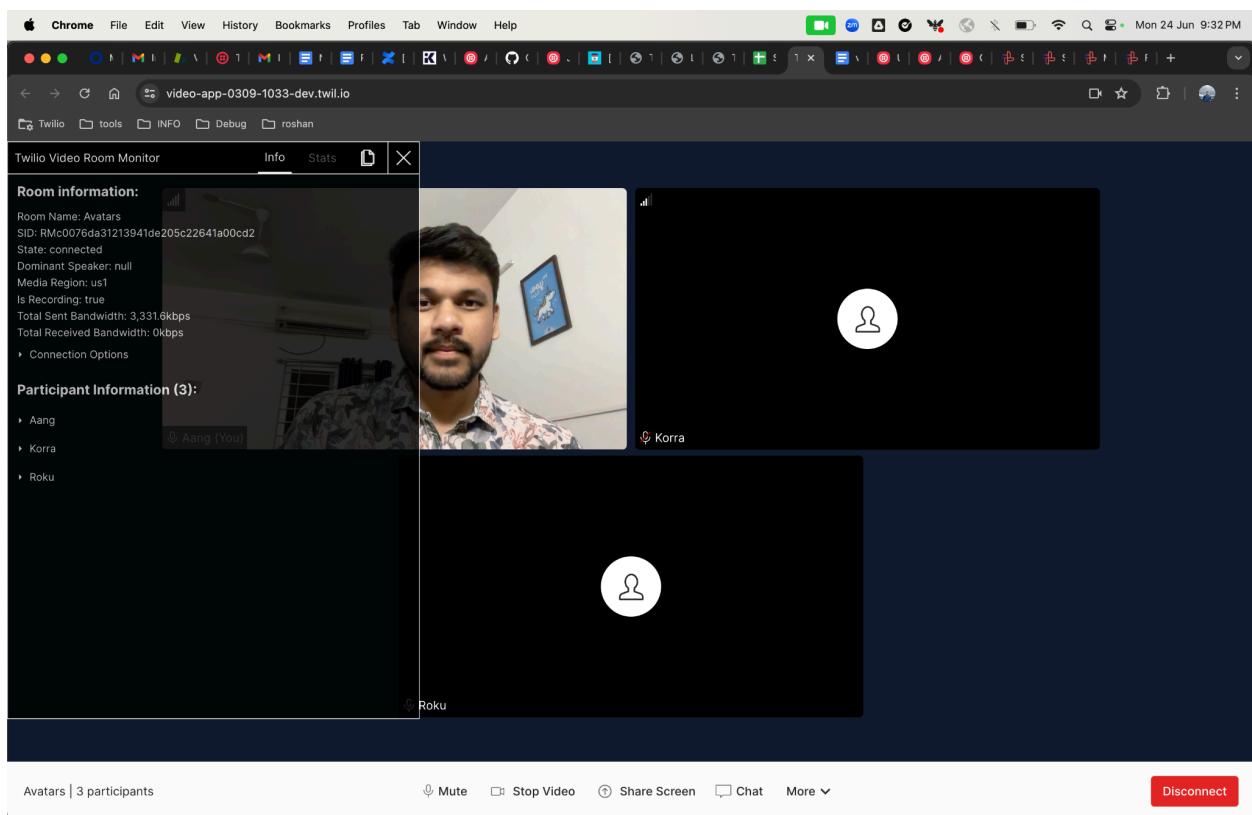
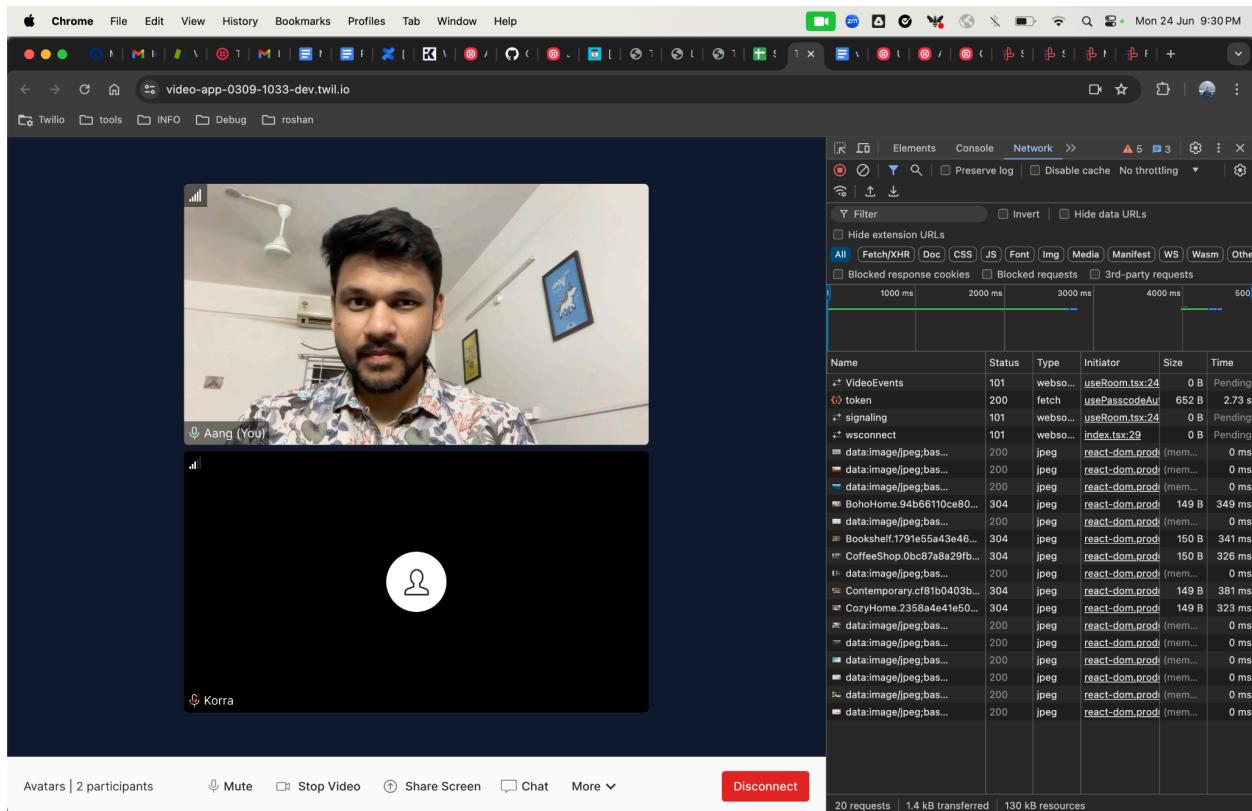
Recording is in progress.

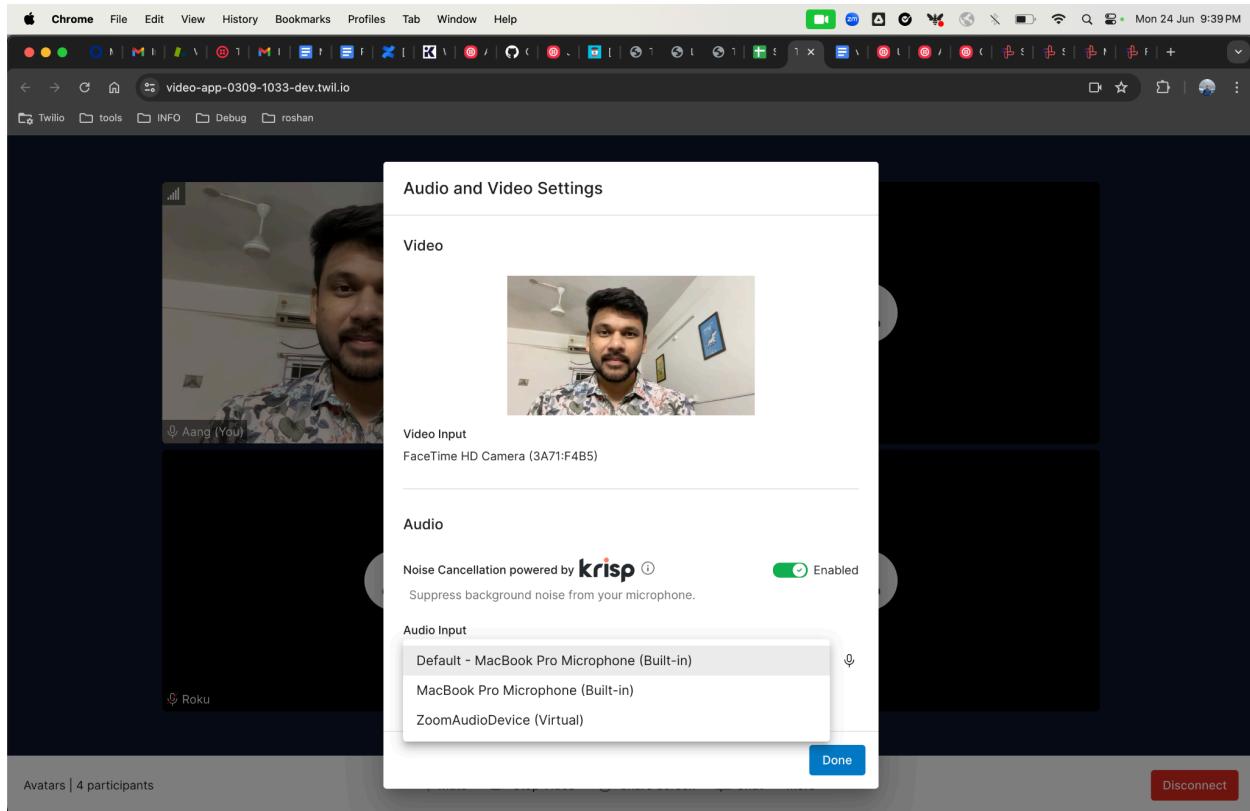
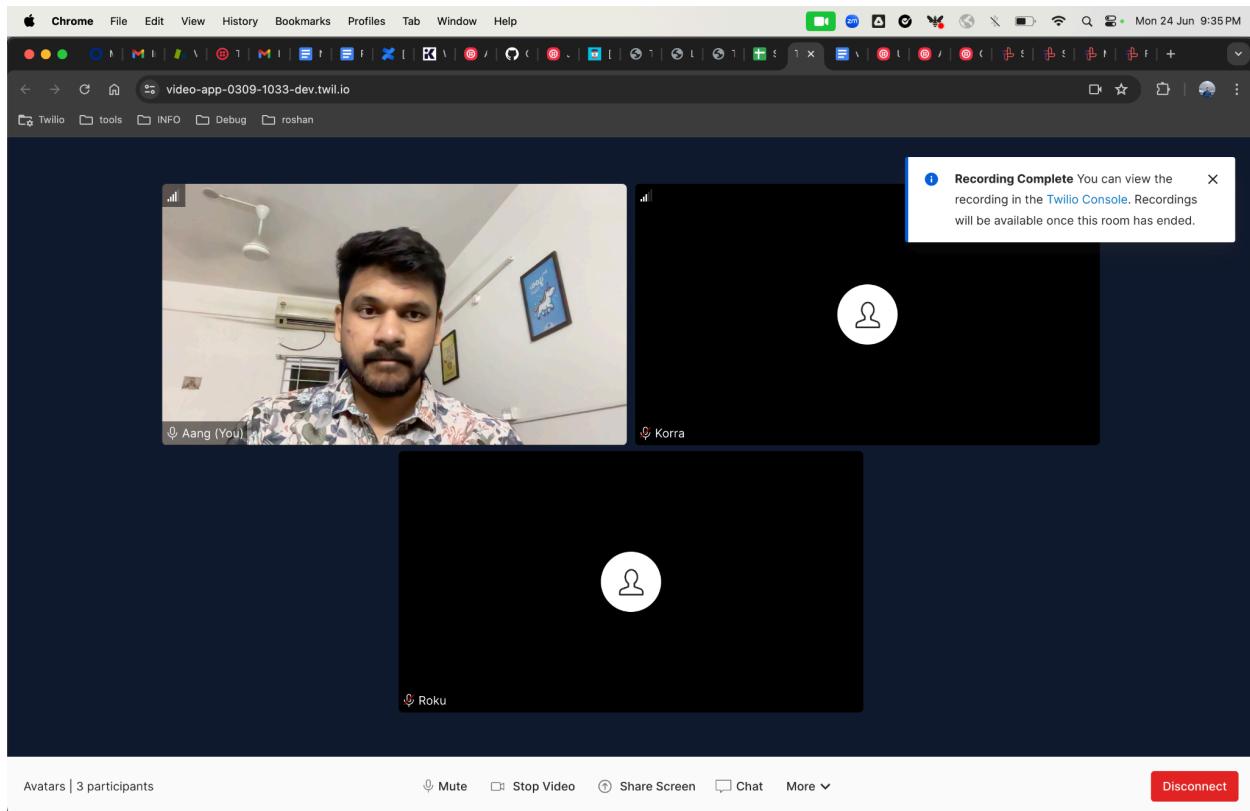
Aang (You)

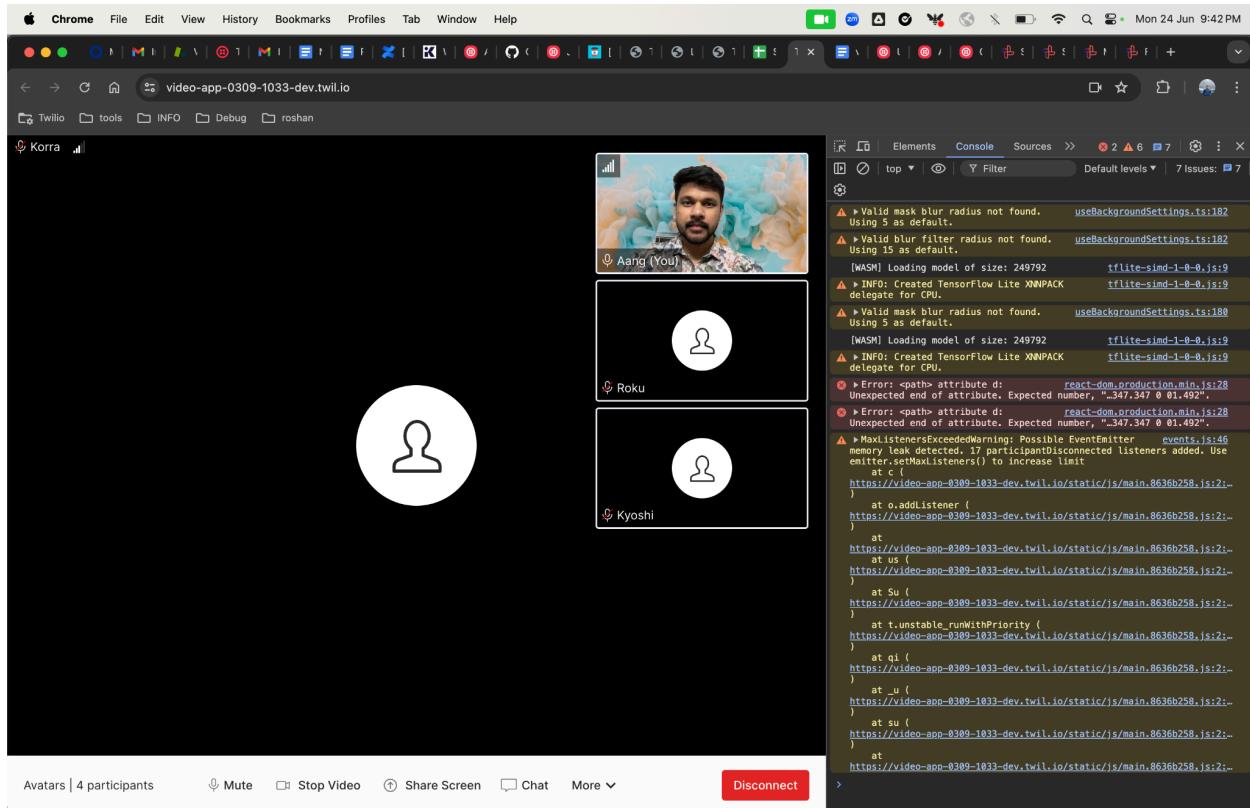
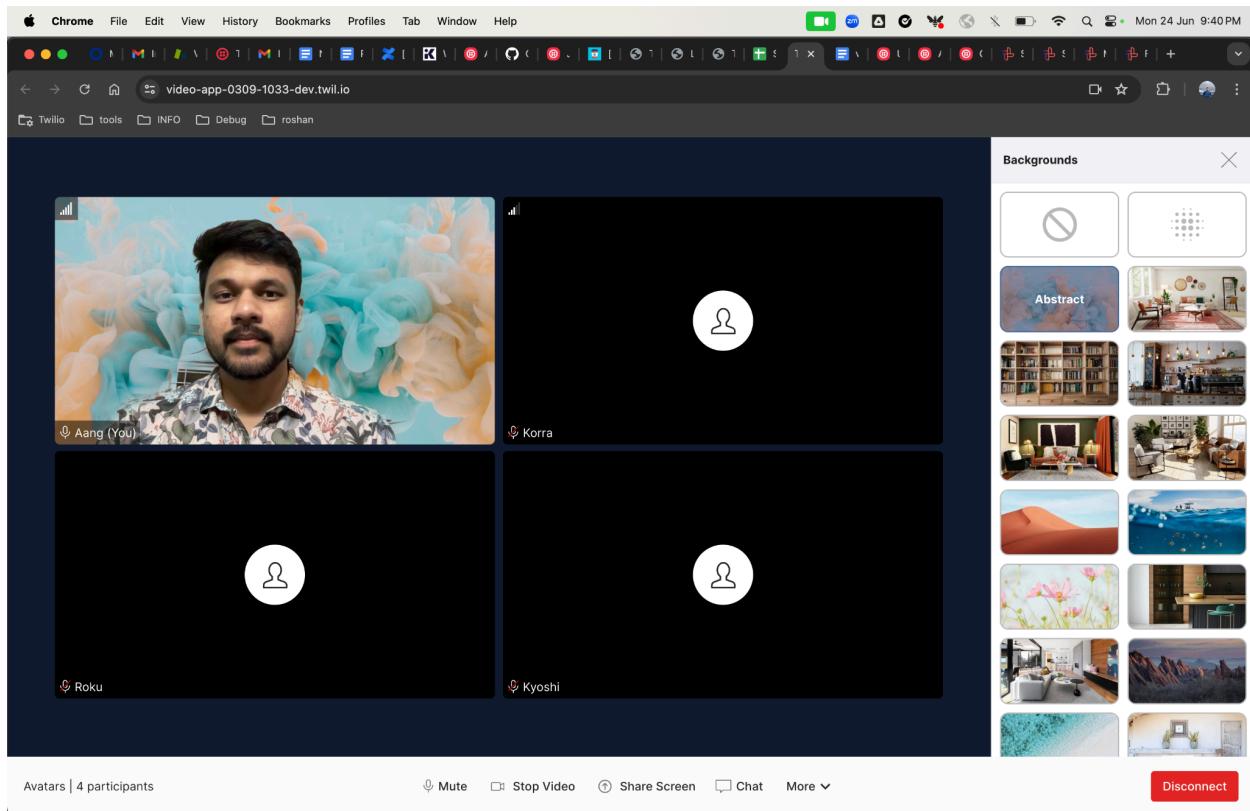
Network tab in DevTools showing network requests:

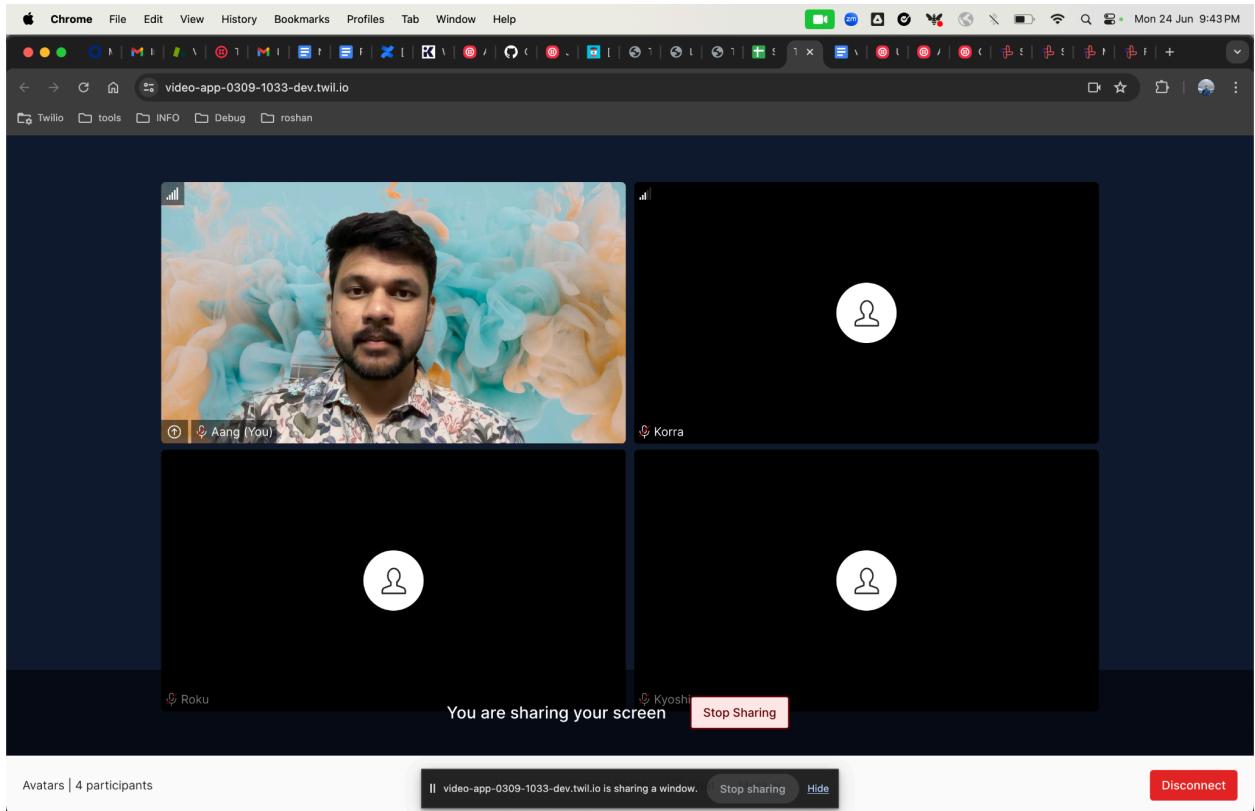
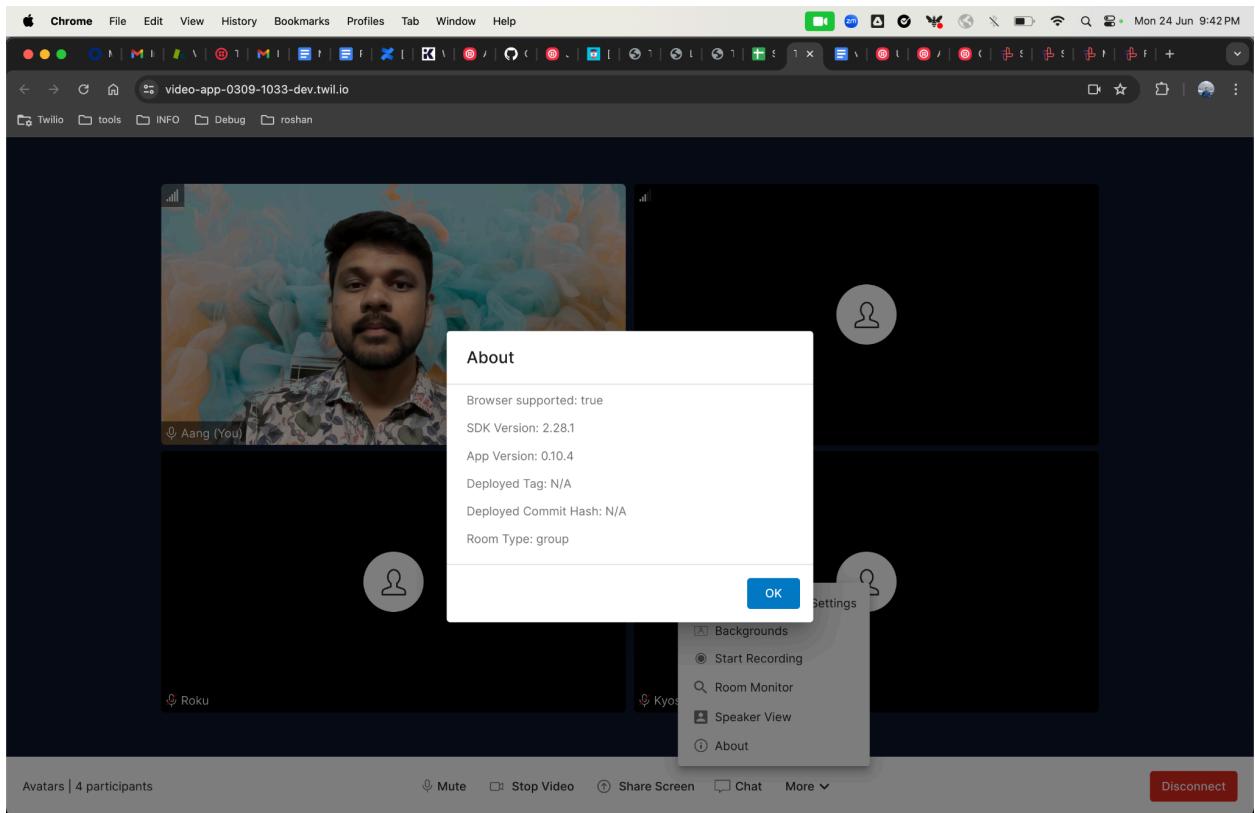
Name	Status	Type	Initiator	Size	Time
VideoEvents	101	websocket	useRoom.tsx:24	0 B	Pending
token	200	fetch	usePasscodeAu...	652 B	2.73 s
signaling	101	websocket	useRoom.tsx:24	0 B	Pending
wsconnect	101	websocket	index.tsx:29	0 B	Pending
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
BohoHome.94b6110c80...	304	jpeg	react-dom.prod...	149 B	349 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
Bookshelf.1791e55a43e46...	304	jpeg	react-dom.prod...	150 B	341 ms
CoffeeShop.0bc57a8a29fb...	304	jpeg	react-dom.prod...	150 B	326 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
Contemporary.cf181a0403b...	304	jpeg	react-dom.prod...	149 B	381 ms
CozyHome.2358ba4e1e50...	304	jpeg	react-dom.prod...	149 B	323 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms

20 requests | 1.4 kB transferred | 130 kB resources





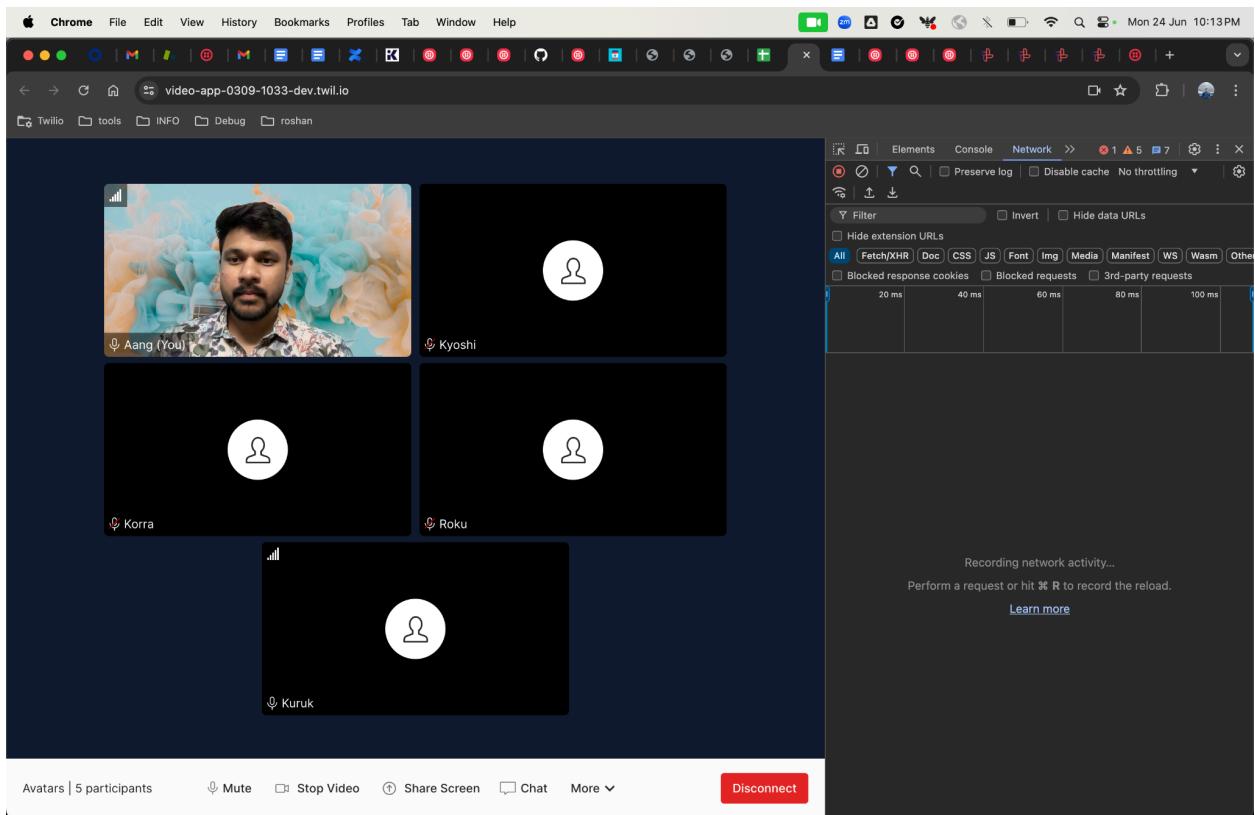




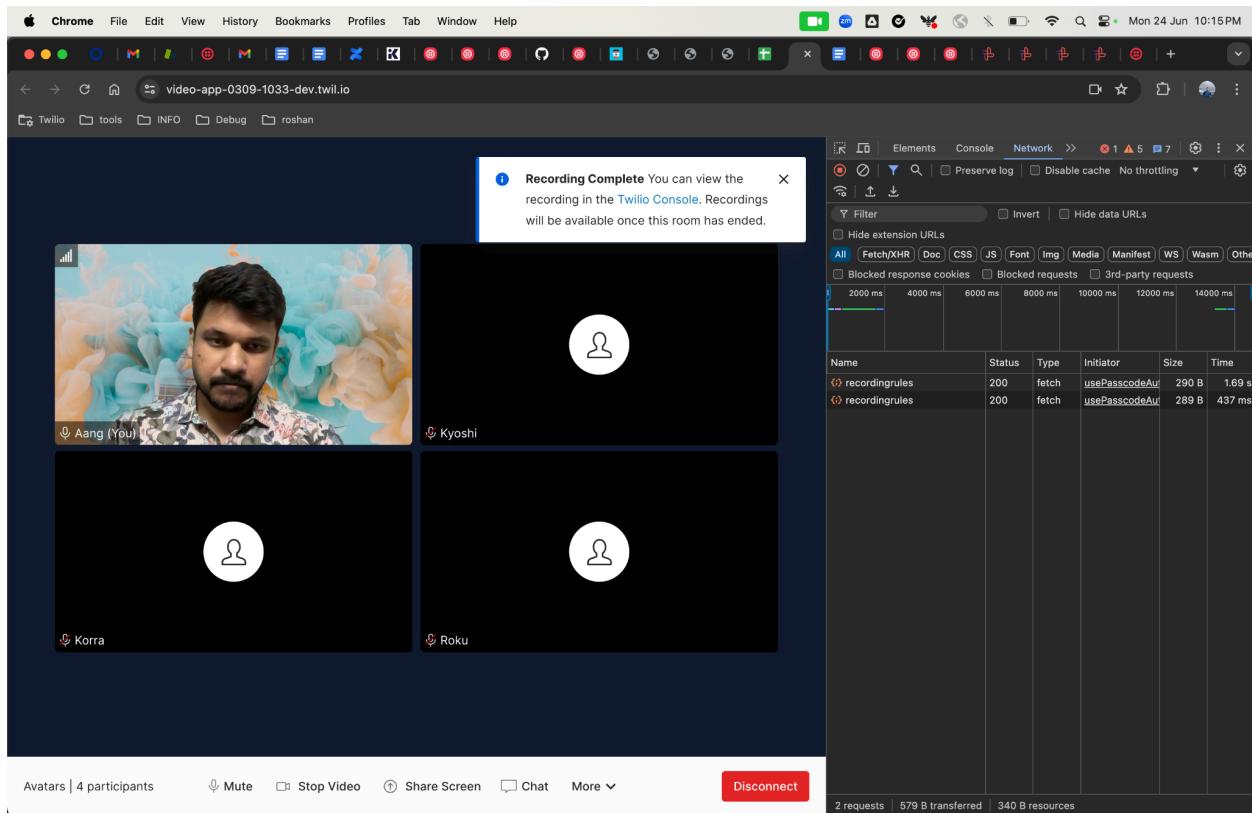
A screenshot of a browser window showing a video conference interface. The main video feed shows a man with a beard and a floral shirt. The interface includes participant avatars for 'Aang (You)', 'Kyoshi', 'Korra', and 'Roku'. A message at the bottom says 'You are sharing your screen' with a 'Stop Sharing' button. The browser's developer tools are open, showing the Network tab with requests to 'fonts.gstatic.com'. The status bar indicates 'Avatars | 4 participants'.

A screenshot of a browser window showing a video conference interface. The main video feed shows a man with a beard and a floral shirt. The interface includes participant avatars for 'Aang (You)', 'Kyoshi', 'Korra', and 'Roku'. A message at the bottom says 'You are sharing your screen' with a 'Stop Sharing' button. To the right is a 'Chat' sidebar with messages from 'Aang (You)', 'Korra', 'Roku', and 'Kyoshi'. A text input field at the bottom of the sidebar says 'Write a message...'. The browser's developer tools are open, showing the Network tab with requests to 'fonts.gstatic.com'. The status bar indicates 'Avatars | 4 participants'.

## PSTN User added from code



Recorded with PSTN user



```
const accountSid = 'AC0fe10850d5dc75aba1068262c3cc6c8a';
const authToken = '';
const client = require('twilio')(accountSid, authToken);

const call = client.calls.create({
  from: "+447361584698",
  to: "+917989178039",
  twiml: "<Response><Say>Ahoy, World!</Say><Connect><Room participantIdentity='Kuruk'>Avatars</Room><Connect></Response>";
});
```

Peers room

timestamp	room sid	room name	med
1 type video codecs			*
2 -----	-----	-----	④
3 2024-06-25T12:39:47.554Z	RM48a2aade27dfd6cebbece2e2cf876bea	securepeer	⋮
			peer-

Twilio Video offers two distinct types of rooms for video communication: Group Rooms and Peer-to-Peer (P2P) Rooms. Group Rooms utilize server-based routing, where media streams are sent to Twilio's servers and then distributed to participants. This architecture supports larger groups by offloading the processing and bandwidth management to Twilio's infrastructure, providing optimized media quality and the ability to handle complex network environments. Group Rooms also support server-side recording, making them ideal for larger meetings, webinars, and scenarios where recording the session is necessary. The centralized bandwidth usage and Twilio's media handling capabilities ensure a consistent and reliable experience for participants.

In contrast, P2P Rooms establish direct connections between participants without routing media through Twilio's servers. This approach can offer lower latency for smaller groups, typically up to 10 participants, as it eliminates the intermediary server. However, it requires each participant to maintain direct connections with every other participant, leading to higher bandwidth usage and potential issues with network configurations, such as firewalls and NAT. P2P Rooms are suitable for small team meetings, one-on-one calls, or situations where low latency is critical. They provide a straightforward setup but do not support server-side recording, making them less suitable for larger groups or scenarios needing advanced media processing and centralized control.