

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

Video Group room

Room Name: **Avatars**

SID: RMc0076da31213941de205c22641a00cd2

The screenshot shows a browser window with the URL `video-app-0309-1033-dev.twil.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 area has two input fields: "Your Name" containing "Aang" and "Room Name" containing "Avatars". Below the inputs is a blue "Continue" button. In the top right corner of the main area, there's a "Logout" link. At the very top of the browser, there's a toolbar with various icons and a status bar showing "Mon 24 Jun 8:34PM". The bottom right of the browser window shows network activity details: "12 requests | 3.0 MB transferred | 8.3 MB resources | Finish: 13.17 s | DOMContentL...

Name	Status	Type	Initiator	Size	Time
video-app-0309-1033-dev...	200	document	Other	923 B	890 ms
UcC73FwrK3lTnHuS_fvQt...	200	font	CSS	(mem...)	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	(mem...)	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	(mem...)	0 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-...	2.6 MB	6.97 s
Abstract.b969afc331e21...	200	jpeg	useBackground	85.6 kB	413 ms
selfie_segmentation_lands...	200	fetch	useBackground	(disk c...)	2 ms
tflite-simd-1-0-0.wasm	200	wasm	tflite-simd-1-0-...	(disk c...)	6 ms

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

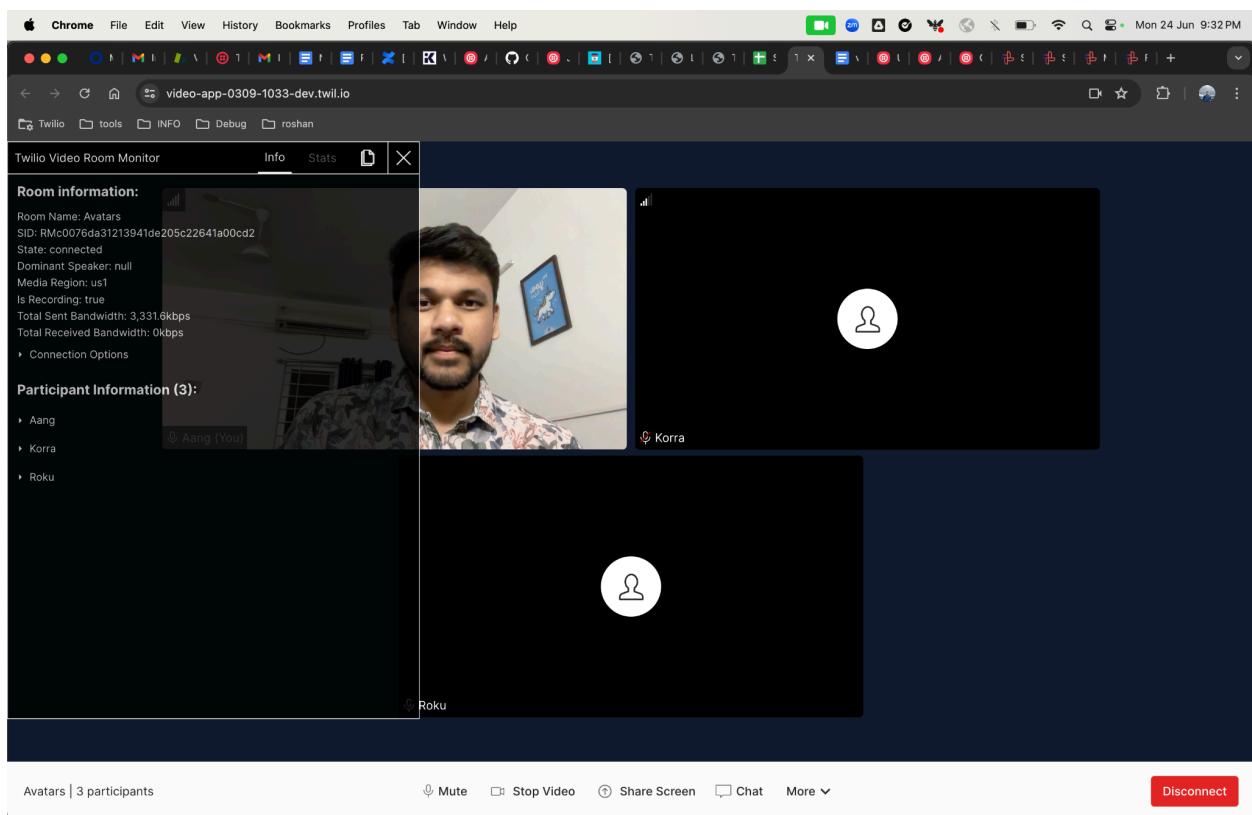
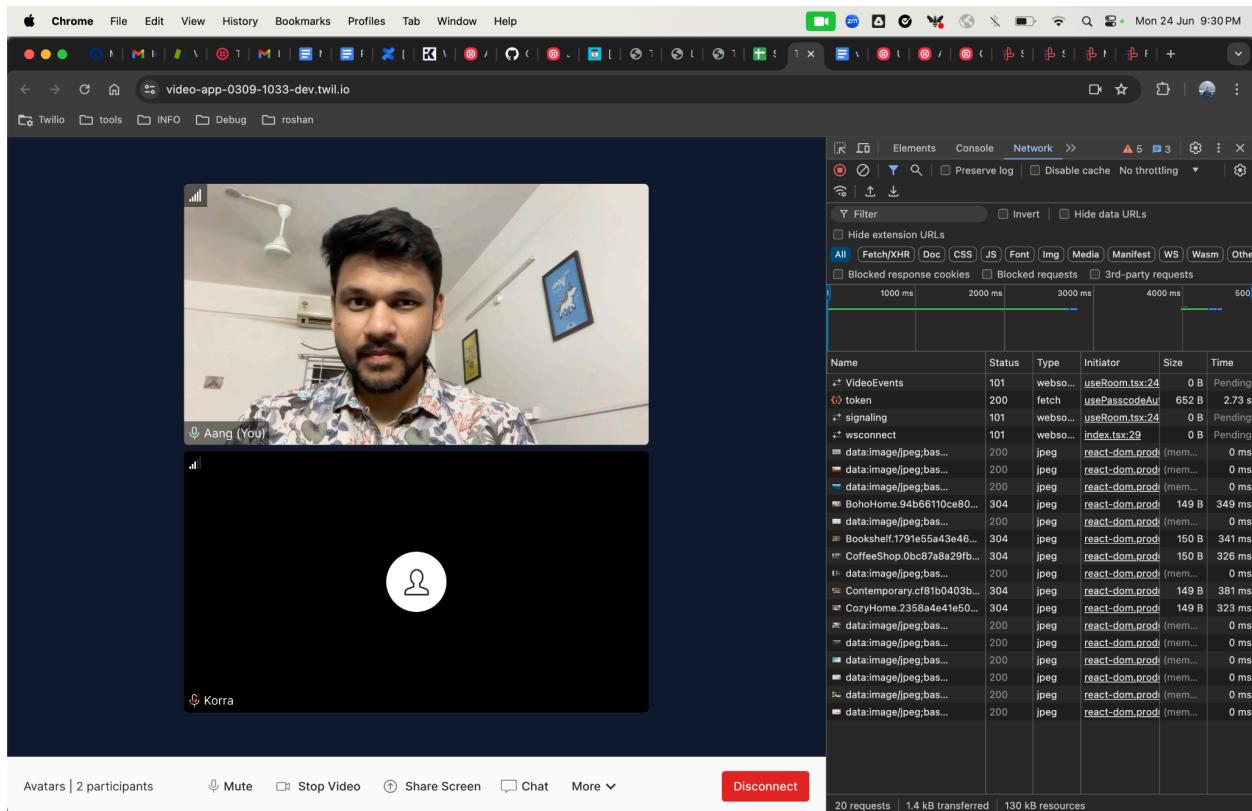
Recording is in progress.

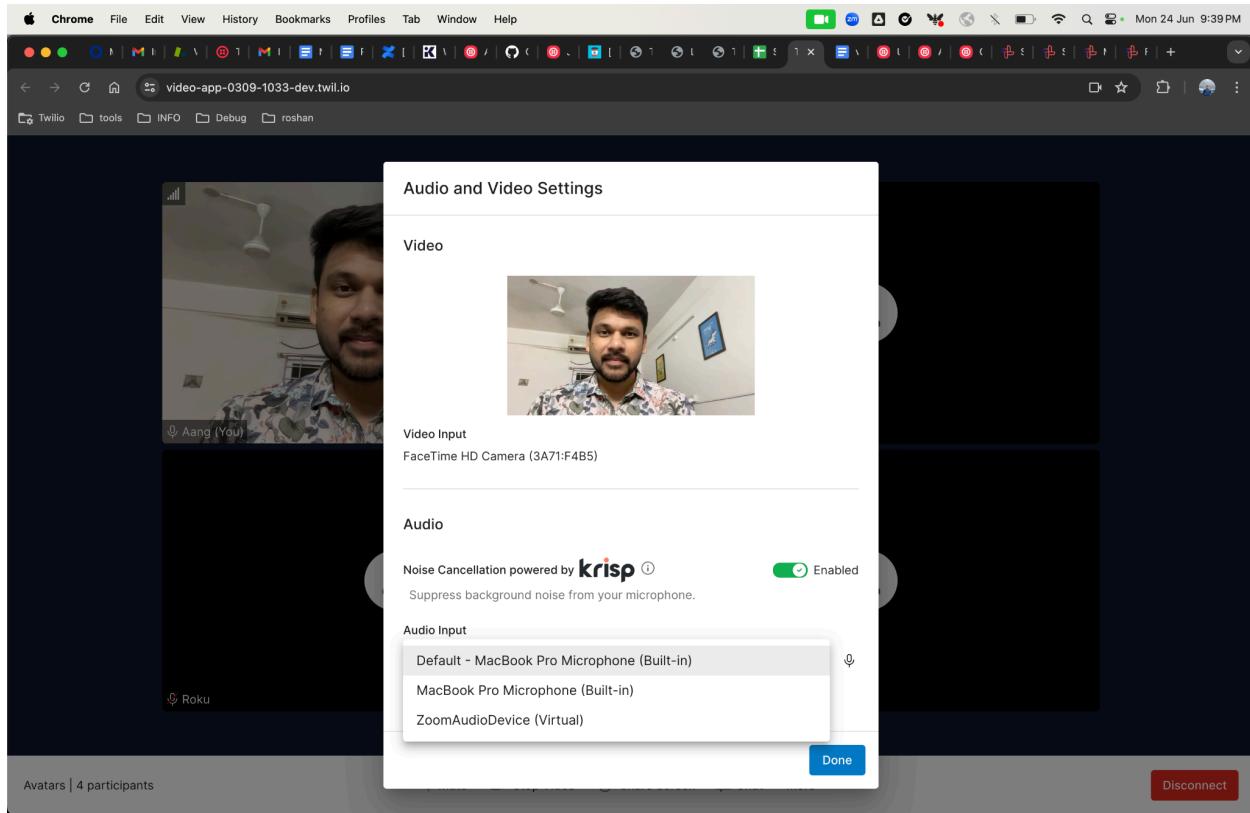
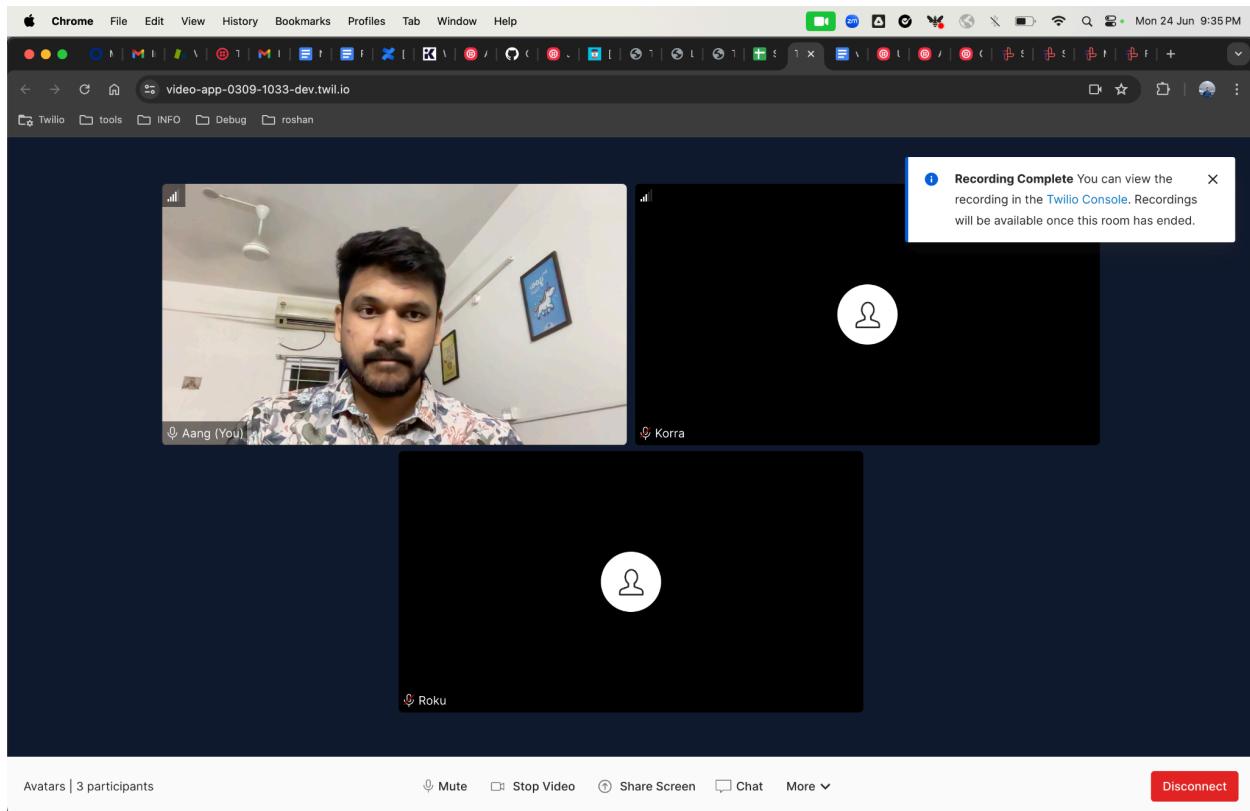
Aang (You)

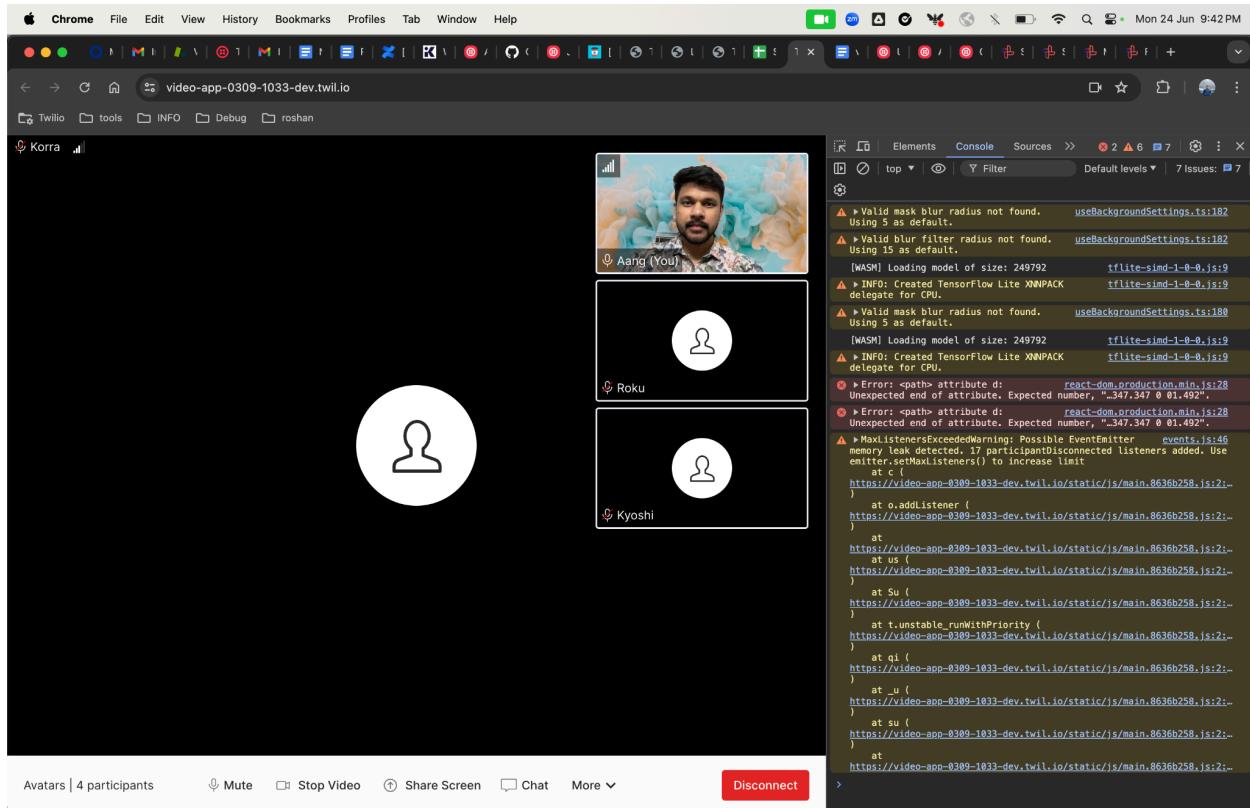
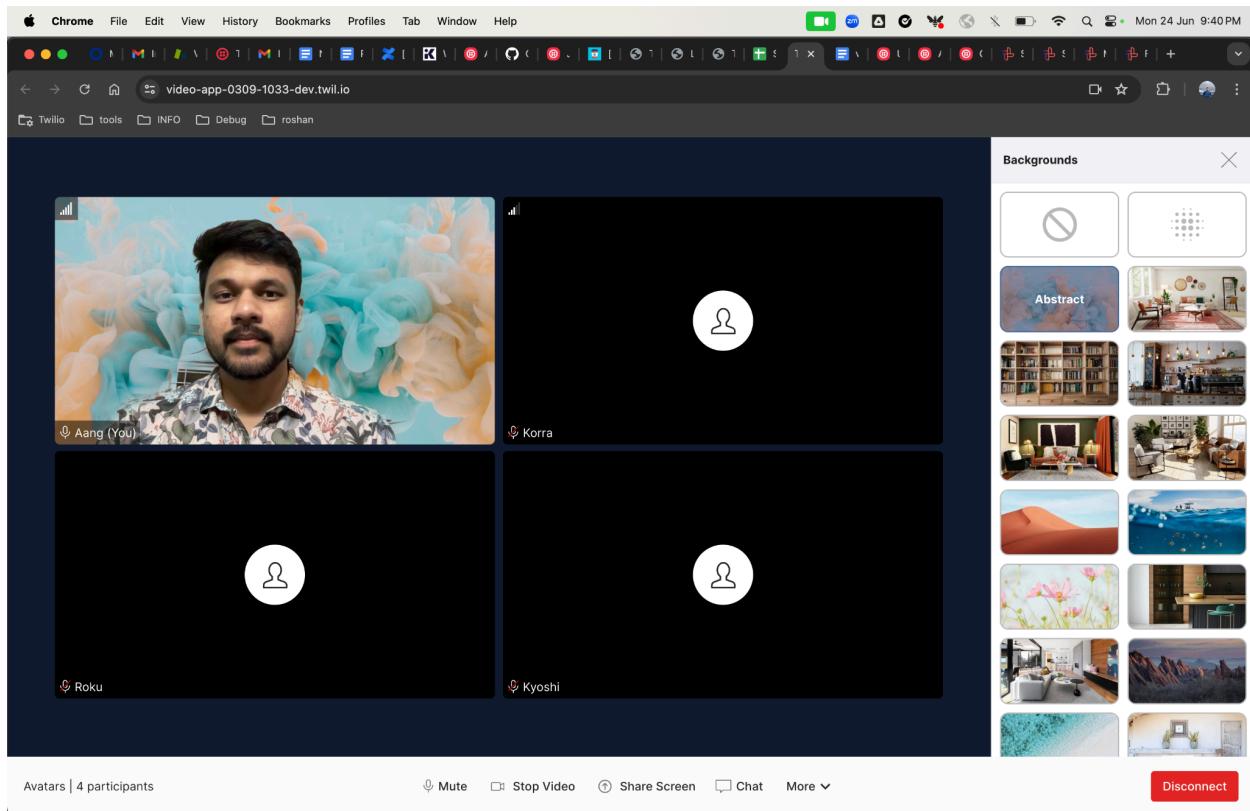
Network tab in DevTools showing network requests:

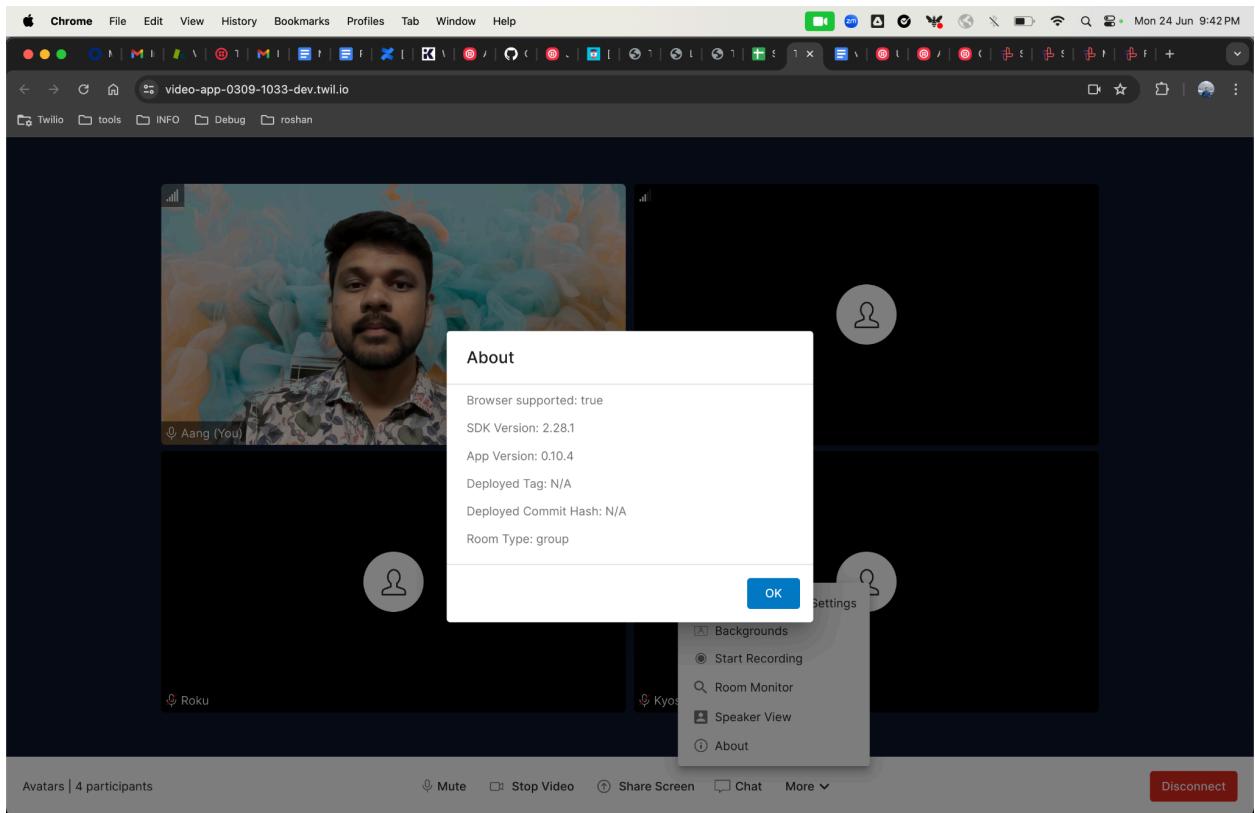
Name	Status	Type	Initiator	Size	Time
VideoEvents	101	websocket	useRoom.tsx:24	0 B	Pending
token	200	fetch	usePasscodeAu...	652 B	2.73 s
signaling	101	websocket	useRoom.tsx:24	0 B	Pending
wsconnect	101	websocket	index.tsx:29	0 B	Pending
data:image/jpeg,bas...	200	jpeg	react-dom.prod...	(mem...	0 ms
data:image/jpeg,bas...	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

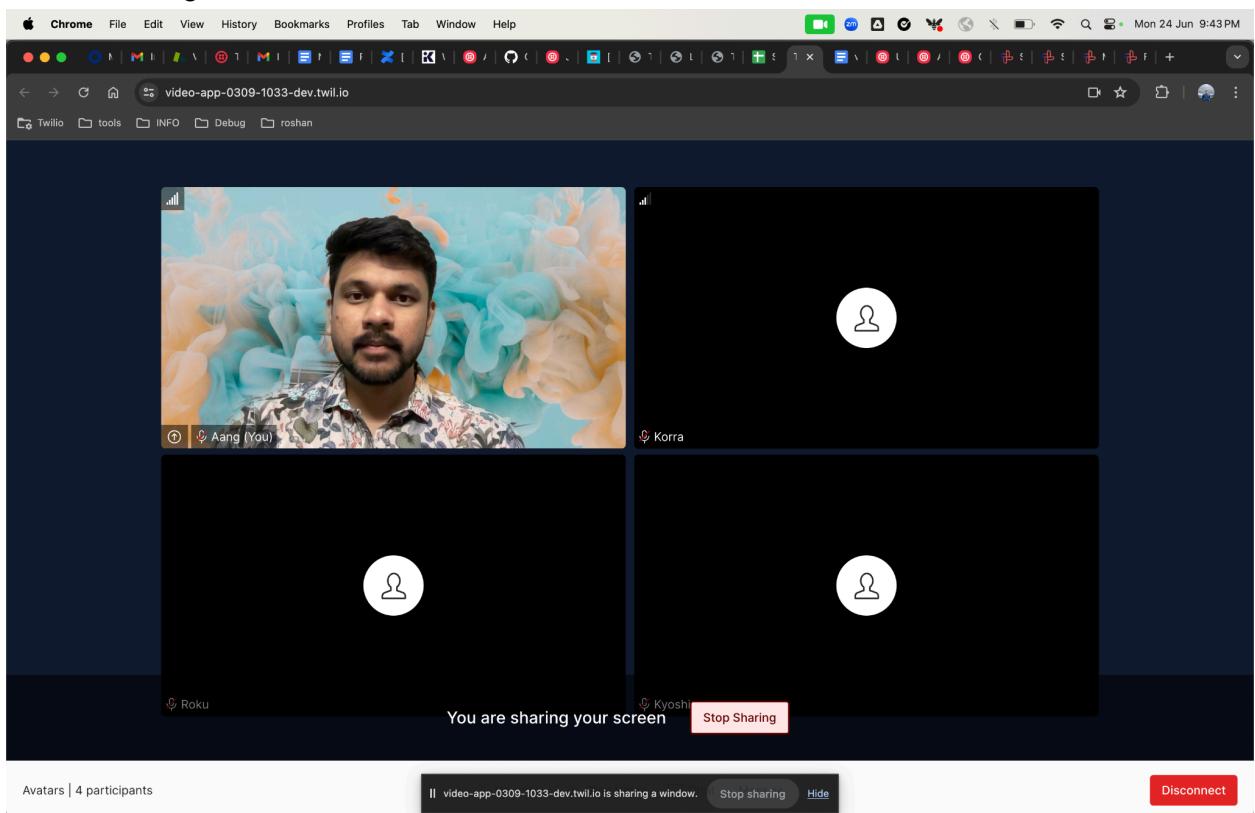


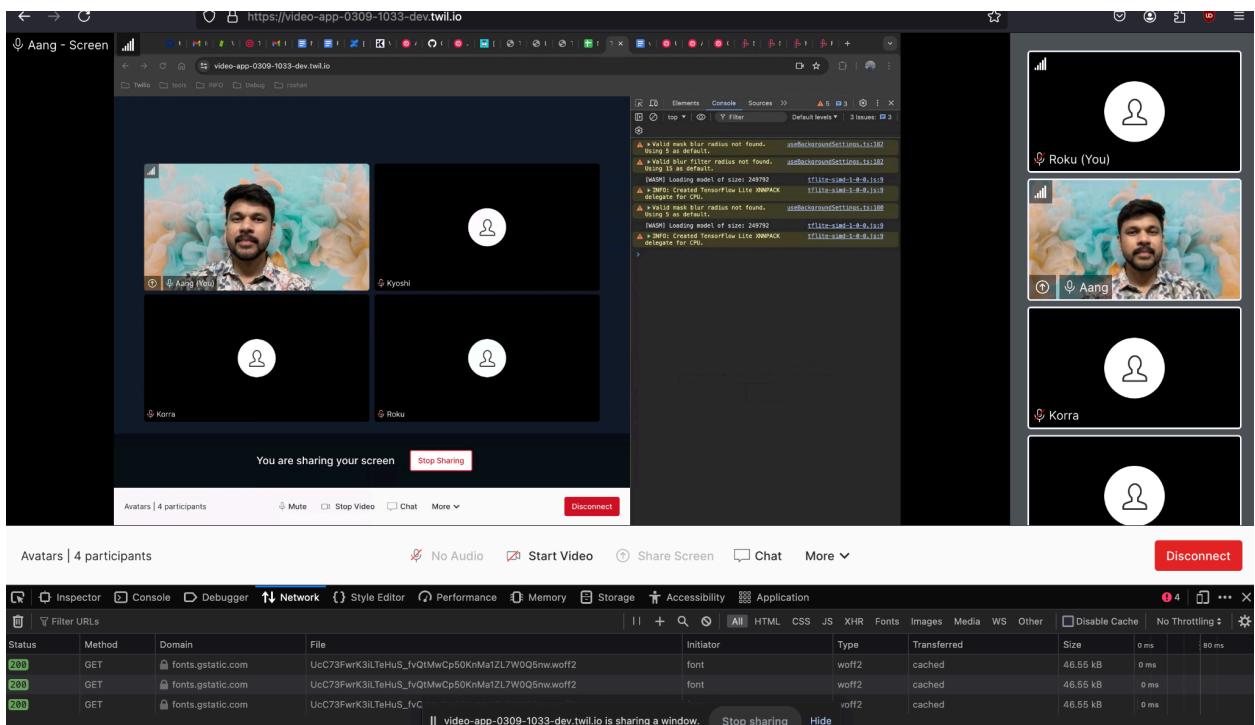




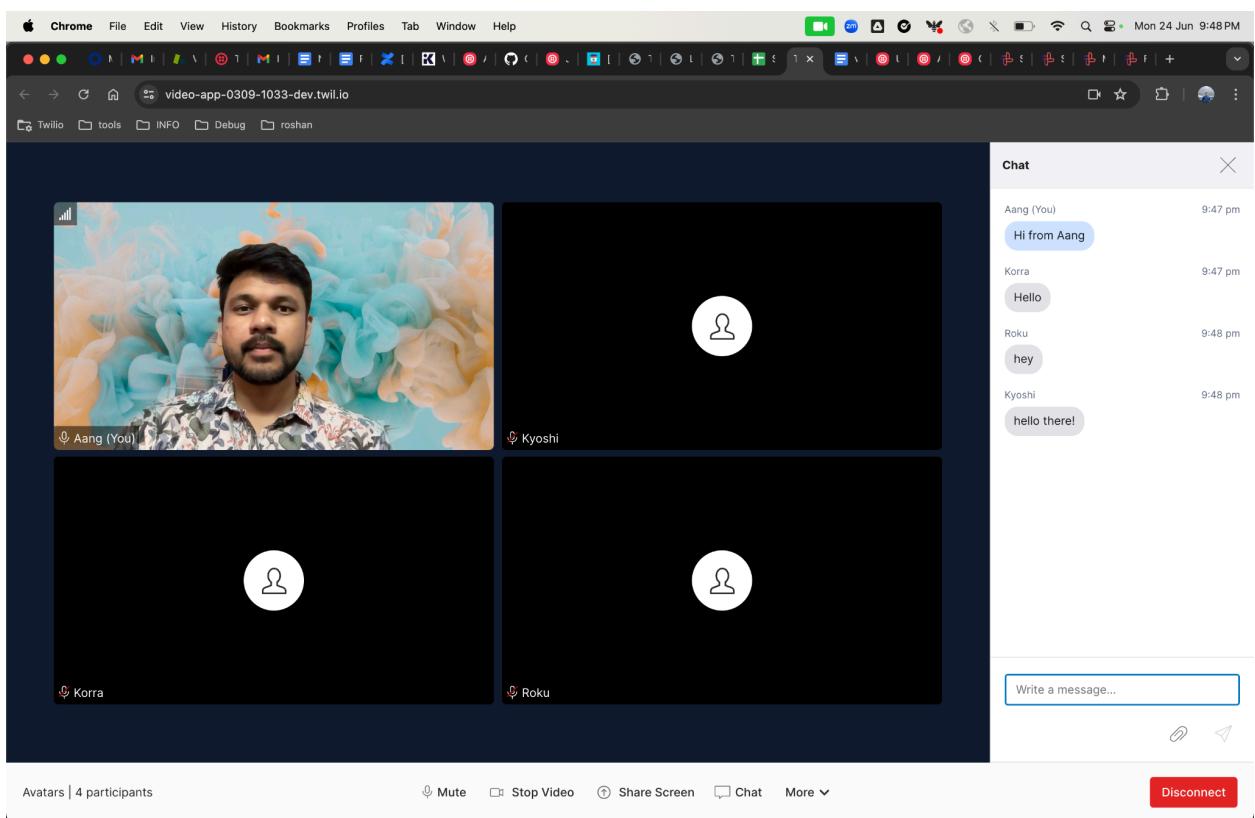


Screen sharing

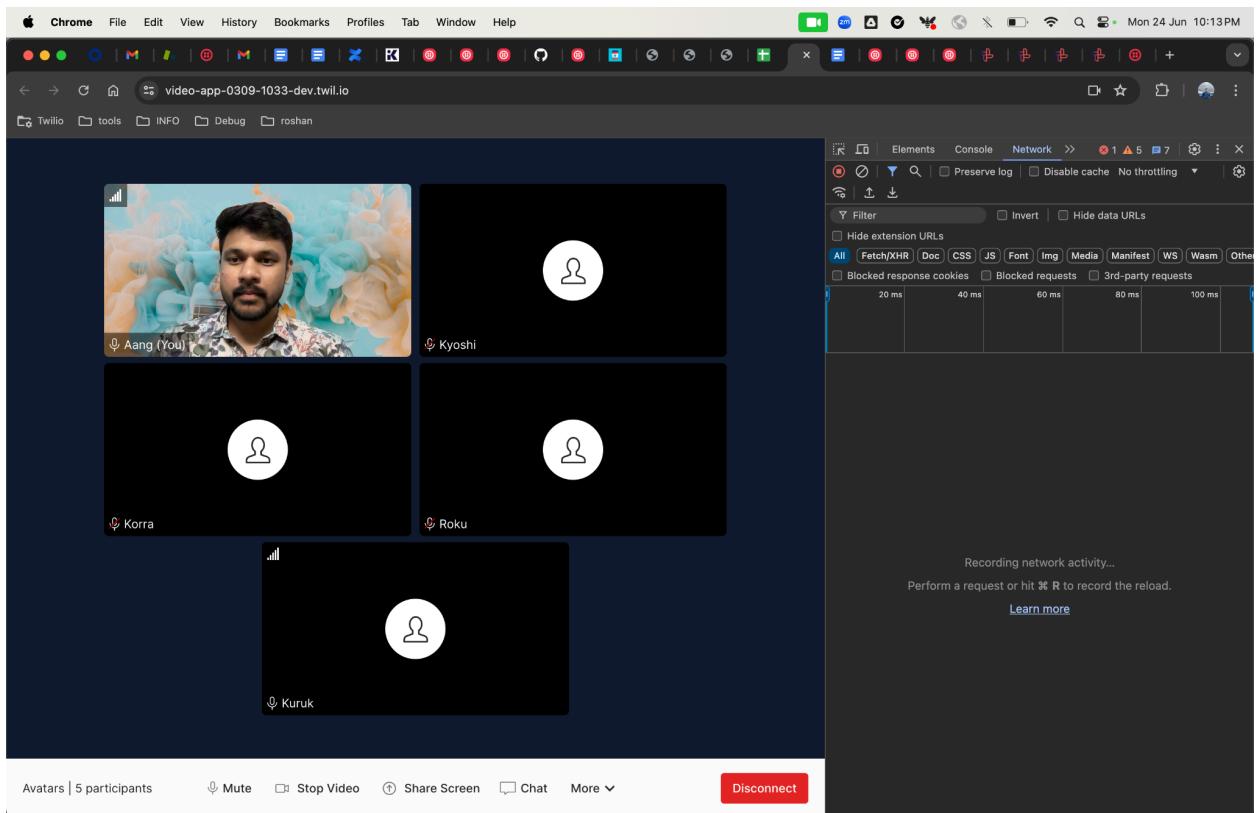




Chat



PSTN User added from code



Code to add 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>",
});
```

Peer-to-Peer room

6:11 Recently created Rooms ▾				
1	timestamp	room sid	room name	media
2	-----	-----	-----	-----
3	2024-06-25T12:39:47.554Z	RM48a2aade27dfd6cebbece2e2cf876bea	securepeer	peer-

Explain the differences in output between Group rooms and P2P rooms.

Group Rooms

- **Architecture:** Use a Selective Forwarding Unit (SFU) server to manage video streams.
- **Scalability:** Can support larger numbers of participants (up to 50 in Group Rooms).
- **Media Processing:** The SFU can optimize media streams, such as managing bandwidth, and potentially adding features like recording and network resilience.
- **Latency:** Slightly higher latency compared to P2P Rooms due to the media being routed through the SFU server.
- **Use Cases:** Suitable for larger meetings, webinars, and situations where recording or advanced media processing is needed.

Peer-to-Peer (P2P) Rooms

- **Architecture:** Direct connection between participants without involving a server for media relay.
- **Scalability:** Typically limited to smaller groups (3-4 participants in a video call, up to 10 participants for audio-only calls) due to the browser's capability to handle multiple direct connections.
- **Media Processing:** No server-side media processing; all participants handle the media streams locally.
- **Latency:** Lower latency since the media streams are sent directly between participants.
- **Use Cases:** Ideal for smaller meetings, one-on-one calls, or scenarios where low latency is critical, and server-side features are not necessary.