```
Understanding `navigator` and `navigator.mediaDevices` (Web APIs)
What is `navigator`?
'navigator' is a built-in object in the browser that gives information about the user's browser and
device.
Example:
  console.log(navigator.userAgent);
What is `navigator.mediaDevices`?
This provides access to media devices like:
- Microphone
- Camera
- Audio output devices
Most Important Method: `getUserMedia()`
Used for:
- Video calling
- Screen recording
- Audio capture
Example:
navigator.mediaDevices.getUserMedia({ video: true, audio: true })
 .then((stream) => {
  const videoElement = document.querySelector('video');
  videoElement.srcObject = stream;
  videoElement.play();
```

})

```
.catch((err) => {
  console.error('Error accessing media devices.', err);
});
```

Explanation:

- `{ video: true, audio: true }`: Asks for camera and mic access
- `.then((stream) => {...})`: Handles the allowed stream
- `videoElement.srcObject`: Displays live video

Notes:

- Permission is required
- Works only on HTTPS or localhost
- Returns a stream (can be viewed or recorded)

Other useful `navigator` properties:

- `navigator.userAgent`: Browser info
- `navigator.language`: Preferred language
- `navigator.onLine`: Online/offline status
- `navigator.geolocation`: Location access (with permission)
- `enumerateDevices()`: Lists available input/output devices

MDN Docs:

- https://developer.mozilla.org/en-US/docs/Web/API/Navigator
- https://developer.mozilla.org/en-US/docs/Web/API/MediaDevices
- https://developer.mozilla.org/en-US/docs/Web/API/MediaDevices/getUserMedia

WebRTC Tip:

`getUserMedia()` is the first step to capture user media for video chat apps. The stream is shared peer-to-peer via WebRTC.	then