

Courses

Practice

Roadmap







19 - Show Videos in Web App

12:22

Show Videos in the Web Client

We now have a list of videos in our database that we can fetch, but we are not yet displaying them in our UI. Let's change that.

1. Add getVideos Function to Next.js App

Add the following code to functions.ts

```
const getVideosFunction =
httpsCallable(functions, 'getVideos');

export interface Video {
  id?: string,
  uid?: string,
  filename?: string,
  status?: 'processing' | 'processed',
  title?: string,
  description?: string
}

export async function getVideos() {
  const response: any = await
  getVideosFunction();
  return response.data as Video[];
}
```

If we want to call getVideos from a React server
component, we have to make sure the
initializeApp(firebaseConfig) is run before.

If you try to do it otherwise you will most likely see the same error I did =)

To fix this we can move this code from functions.ts to firebase.ts:

```
import { getFunctions } from
"firebase/functions";
export const functions = getFunctions(app);
```

```
Make sure to export functions from firebase.ts and import it within functions.ts;
```

```
import { functions } from './firebase';
```

2. Render Video Links

Add a **thumbnail image** to your public directory.

Fetch the videos within the root page.tsx and render them as links:

```
import Image from 'next/image';
import Link from 'next/link';
import { getVideos } from
'./firebase/functions';
import styles from './page.module.css'
export default async function Home() {
  const videos = await getVideos();
  return (
    <main>
      {
        videos.map((video) => (
          <Link href={`/watch?
v=${video.filename}`}>
            <Image src={'/thumbnail.png'}</pre>
alt='video' width={120} height={80}
              className={styles.thumbnail}/>
          </Link>
        ))
      }
    </main>
}
```

Add some margin for the thumbnails in

```
.thumbnail {
```

margin: 10px;

page.module.css

Note: If you try to execute a <code>console.log()</code> within a server-side component you will not see anything in your browser's console. You will have to open the terminal where you started the Next.js app to see the logs.

This is of course, because the code is executed server-side =)

Upon clicking a thumbnail, you should be redirected to the watch page. We are using the entire filename as the video id so that on the watch page we can render the video.

A better approach would be to use a shorter videoId, rather than the raw filename, but this would require more work.

3. Add Video to Watch Page

Now in the watch page we can grab the filename from the URL and render the video. We will also convert this page to a client component, which is required in order to use useSearchParams in Next.js 13.

```
'use client';
                                           Copy
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'https://storage.googleapis.com/nc-yt-
processed-videos/';
  const videoSrc =
useSearchParams().get('v');
  return (
    <div>
      <h1>Watch Page</h1>
      { <video controls src={videoPrefix +
videoSrc}/> }
    </div>
 );
}
```

4. Test it Out

You can try uploading a few more videos and see if they show up in the UI. And it should work regardless of whether you are signed in or not.