Courses   Practice   Roadmap   🔥 Pro   ⚙️

3 - Process Videos Locally

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Add Video Processing Code

Install ffmpeg nodejs wrapper

```
npm install fluent-ffmpeg
```

Install fluent-ffmpeg types

```
npm install --save-dev @types/fluent-ffmpeg
```

Add video processing code

```javascript
import express from 'express';
import ffmpeg from 'fluent-ffmpeg';

const app = express();
app.use(express.json());

app.post('/process-video', (req, res) => {

  // Get the path of the input video file
  // from the request body
  const inputFilePath =
req.body.inputFilePath;
  const outputFilePath =
req.body.outputFilePath;

  // Check if the input file path is defined
  if (!inputFilePath || !outputFilePath) {
    return res.status(400).send('Bad Request:
Missing file path');
  }

  // Create the ffmpeg command
  ffmpeg(inputFilePath)
    .outputOptions('-vf', 'scale=-1:360') //
360p
    .on('end', function() {
        console.log('Processing finished
successfully');
        res.status(200).send('Processing
finished successfully');
    })
    .on('error', function(err: any) {
        console.log('An error occurred: ' +
err.message);
        res.status(500).send('An error
occurred: ' + err.message);
    })
    .save(outputFilePath);
});
```

```
const port = process.env.PORT || 3000;
app.listen(port, () => {
    console.log(`Server is running on port
${port}`);
});
```

Since `fluent-ffmpeg` is a wrapper around the `ffmpeg` command line tool, you will need to install `ffmpeg` on your machine. You can download it from **here**.

On Ubuntu, you can install it with the following

☐ **Mark Lesson Complete**   ←   →

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y ffmpeg

Start it up locally

```
npm run start
```

Install Thunder Client in VSCode and send a request to test it out.

The request URL:

`POST http://localhost:3000/process-video`

The request body:

```
{
  "inputFilePath": "./nc-intro.mp4",
  "outputFilePath": "./processed-nc-
intro.mp4"
}
```

Full Stack Development

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Intro

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Video Processing Service

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