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Youtube api

- **search.list**

  search.list we can use for get all videos from special channel by using the id, it's provides information's about videos but we can't get more than 50 videos in one time so we use the pagination option to get all videos

- **videos.list**

  videos.list we use to get the information's that not exists in search.list api like statistics and category for given video, it allows to get that information's for one or multiple videos with limit 50 videos in each time

- **videoCategories.list**

  get all categories for special region

Dependencies List

- **Express** (Web framework)
- **ejs** (Embedded JavaScript templates)
- **compression** (enable GZIP compression)
- **connect-timeout** (skip header send problems)

Functions list

- getList

  handling responded data from search.list api
- getVideos

  handling responded data from videos.list api
- getCats

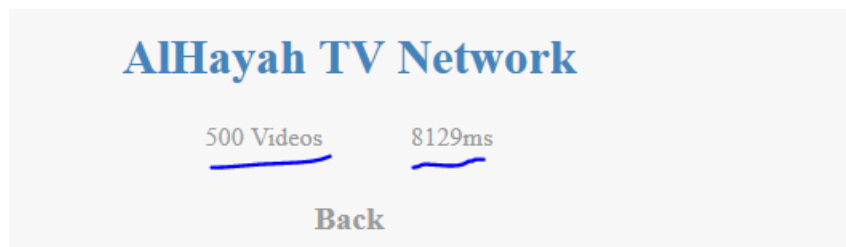 handling responded data from videoCategories.list api

Time measuring

The task has many step so i used measures tools for measuring the api request from youTube and measure all processes.

- First step is used **console.time()** and **console.timeEnd()** for measure the time between request and the response from youTube server for each request
-

```
console.time('Videos processed.')
console.timeEnd('Videos processed.')
```

- Second step is using **Date()** class to measure all process from first request to render the result as html page.

AlHayah TV Network

500 Videos   8129ms

Back

```
[nodemon] watching:
[nodemon] starting `node app.js`

Server running at http://127.0.0.1:10

New Process...
**********************************
Search processed.: 708.015ms
Categories processed.: 410.246ms
Got 50 videos from 500
Got 100 videos from 500
Got 150 videos from 500
Got 200 videos from 500
Got 250 videos from 500
Got 300 videos from 500
Got 350 videos from 500
Got 400 videos from 500
Got 450 videos from 500
Got 500 videos from 500
Videos processed.: 1515.926ms
```

Used Port:
- 10