

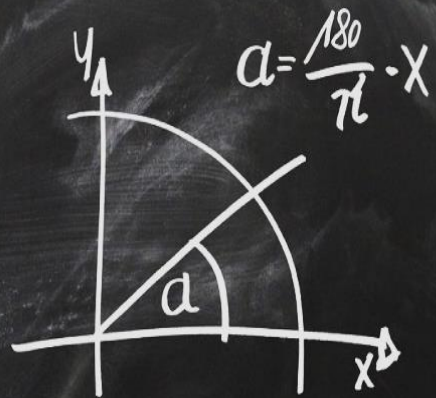


MUSIC CRAWLER & MUSIC PLAYER

TRƯƠNG CÔNG TRUNG

ITITIU¹19059

$$X_{1/2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$x^2 + px + q = 0$$



$$X_{1/2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q}$$

$$x = 6 - 2y$$

$$x + a = b$$

$$f(x) = \tan x$$

$$f(x) = \sin x$$



STRUCTURE

I . Music Crawler

II . Music Player

III . Demonstrate



Zing mp3

Cá Nhân

Khám Phá

#zingchart

Radio **LIVE**

Theo Dõi

Nhạc Mới

Thể Loại

Top 100

MV

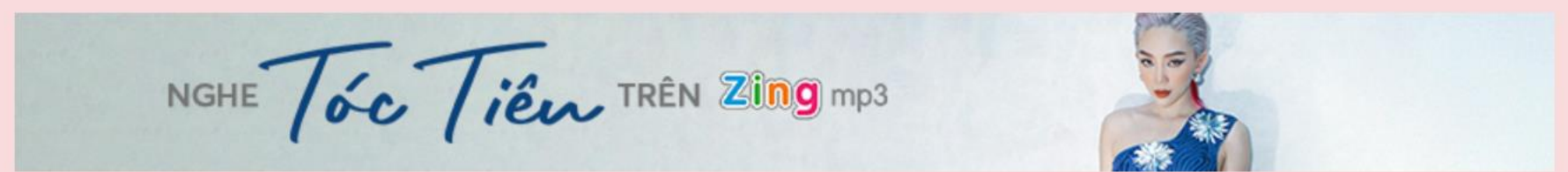
Nghe nhạc không quảng cáo

+ Tạo playlist mới



Search bar: Nhập tên bài hát, nghệ sĩ hoặc MV...

MUSIC CRAWLER



Gần Đây

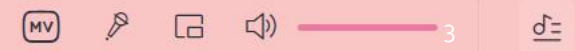
TẤT CẢ >

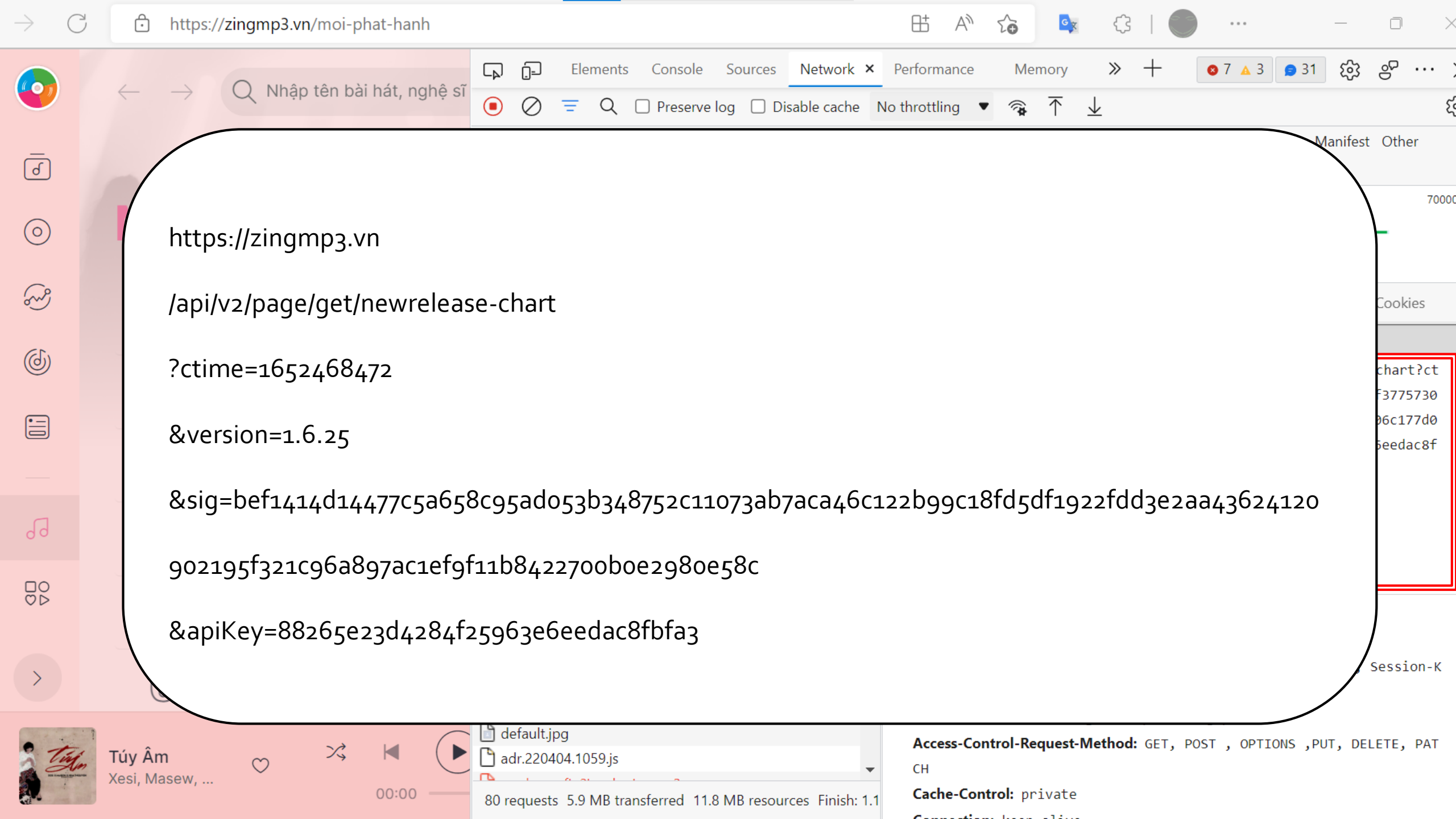


Túy Âm
Xesi, Masew, Nhật Nguyễn



Audio player controls: Shuffle, Previous, Play/Pause, Next, Repeat, Progress bar (00:00 to 03:22).





https://zingmp3.vn

/api/v2/page/get/newrelease-chart

?ctime=1652468472

&version=1.6.25

&sig=bef1414d14477c5a658c95ad053b348752c11073ab7aca46c122b99c18fd5df1922fdd3e2aa43624120

902195f321c96a897ac1ef9f11b8422700boe2980e58c

&apiKey=88265e23d4284f25963e6eedac8fbfa3

chart?ct
f3775730
06c177d0
5eedac8f

Session-K

Access-Control-Request-Method: GET, POST , OPTIONS ,PUT, DELETE, PAT

CH

Cache-Control: private

Connection: keep-alive

/api/v2/page/get/newrelease-chart
/api/v2/page/get/song
/api/v2/lyric/get/lyric
/api/v2/song/get/streaming

```
_time = str(int(datetime.datetime.now().timestamp()))
```

https://zingmp3.vn

/api/v2/page/get/newrelease-chart

?ctime=1652468472



















&version=1.6.25

&sig=bef1414d14477c5a658c95ad053b348752c11073ab7aca46c122b9
9c18fd5df1922fdd3e2aa43624120902195f321c96a897ac1ef9f11b842
2700boe2980e58c

&apiKey=88265e23d4284f25963e6eedac8fbfa3

&sig=bef1414d14477c5a658c95ad053b348752c11073ab7aca46c122b99c18fd5df1922 added 3e2aa43624120902195f321c96a897ac1ef9f11b8422700boe2980e58c

&apiKey=88265e23d4284f25963e6eedac8fbfa3

Name						Ful...	Waterfall
 31.82b4ace3.chunk.js					4 ms	(dis...	
 10.083f1212.chunk.css	200	stylesheet	main.min.js:2	0 B	4 ms	(dis...	
 10.25699eb1.chunk.js	200	script	main.min.js:2	0 B	6 ms	(dis...	
 7.5629d32a.chunk.js	200	script	main.min.js:2	0 B	13 ms	(dis...	
 9.0c64bfed.chunk.css	200	stylesheet	main.min.js:2	0 B	4 ms	(dis...	
 9.23dd6f29.chunk.js	200	script	main.min.js:2	0 B	3 ms	(dis...	
 recommend-keyword?ctime=1653746406&versi...	200	fetch	main.min.js:2	747 B	31 ms		
 newrelease-chart?ctime=1653746406&version=...	200	fetch	main.min.js:2	34.4 kB	71 ms		
 icon_zing_mp3_60.f6b51045.svg	200	svg+xml	main.min.css	0 B	0 ms	(m...	
 new-release-bg.73d8f976.jpg	200	jpeg	main.min.css	0 B	0 ms	(m...	
 config?ctime=1653746406&version=1.6.27&sig...	200	fetch	main.min.js:2	3.7 kB	56 ms		
 userinfo	200	xhr	session-sdk.min.js:1	1.6 kB	118 ms		
 za.js	200	script	moi-phat-hanh	0 B	1 ms	(dis...	
 sdk.js	200	script	moi-phat-hanh	108 B	80 ms		
 ic-star.png	200	png	main.min.js:2	92 B	47 ms		
 analytics.js	200	script	main.min.js:2	0 B	23 ms	(dis...	
 default.jpg	302	/ Redirect	main.min.js:2	40 B	349 ms		
 adr.220404.1059.js	200	script	main.min.js:2	0 B	7 ms	(dis...	


```
6701     function y(t) {  
6702         var e = arguments.length > 1 && void 0 !== arguments[1] ? arguments[1] : {};  
6703         return e.ctime = Object(u.currentTime()),  
6704         e.version = o.d,  
6705         e.sig = m(t, e),  
6706         e.apiKey = h,  
-----
```

```

6664     , c = n(598)
6665     , l = n.n(c)
6666     , f = n(599)
6667     , d = n.n(f)
6668     , h = "88265e23d4284f25963e6eedac8fbfa3"
6669     , p = ["ctime", "id", "type", "page", "count", "version"];
6670 function m(t, e) {
6671     var n = function(t) {
6672         var e = g(t)
6673         , n = [];
6674         for (var r in e)
6675             -1 !== p.indexOf(r) && null !== t[r] && void 0 !== t[r] && "" !== t[r];
6676         return v(n, "")
6677     }(e)
6678     , r = l()("" + n);
6679     return d()(t + r, "2aa2d1c561e809b267f3638c4a307aab")
6680 }
6681 var g = function(t) {
6682     var e = {};
6683     return Object.keys(t).sort().forEach((function(n) {
6684         e[n] = t[n]
6685     }
6686     )),
6687     e
6688 }
6689 , v = function(t) {
6690     var e = arguments.length > 1 && void 0 !== arguments[1] ? arguments[1] : "&"
6691     , n = encodeURIComponent;
6692     return Object.keys(t).map((function(e) {
6693         return n(t[e]).length > 5e3 ? "" : "".concat(n(e), "=").concat(n(t[e]))
6694     }
6695     )).filter((function(t) {
6696         return "" !== t
6697     }

```

```
main.min.js  main.min.js:formatted x
6662     , s = n(123)
6663     , u = n(28)
6664     , c = n(598)
6665     , l = n.n(c)
6666     , f = n(599)
6667     , d = n.n(f)
6668     , h = "88265e23d4284f25963e6eedac8fbfa3"
6669     , p = ["ctime", "id", "type", "page", "count", "version"];
6670     function m(t, e) {
6671         var n = function(t) {
6672             var e = g(t) t = "/api/v2/page/get/newrelease-chart"
6673             , n = [];
6674             for (var r in e) e = {ctime: 1653748656, version: '1.6.27'}
6675                 -1 !== p.indexOf(r) && null !== t[r] && void 0 !== t[r] && "" !== t[r]
6676             return v(n, "")
6677         }(e) e = {ctime: 1653748656, version: '1.6.27'}
6678         , r = l()("" + n); n = "ctime=1653748656version=1.6.27"
6679         return d()(t + r, "2aa2d1c561e809b267f3638c4a307aab")
6680     }
6681     var g = function(t) {
6682         var e = {};
6683         return Object.keys(t).sort().forEach((function(n) {
6684             e[n] = t[n]
6685         })),
6686         e
6687     }
6688     , v = function(t) {
6689         var e = arguments.length > 1 && void 0 !== arguments[1] ? arguments[1] : "&"
6690         , n = encodeURIComponent;
6691         return Object.keys(t).map((function(e) {
6692             return n(t[e]).length > 5e3 ? "" : "".concat(n(e), "=").concat(n(t[e]))
6693         })).filter((function(t) {
6694             return "" !== t
6695         })))
6696     }
```

Paused on breakpoint

Threads

→ Main paused
service-worker.js #237 (activated)

▶ Watch

▼ Breakpoints

☒ main.min.js:formatted:6679
return d()(t + r, "2aa2d1c561e809b267f363...

▼ Scope

▼ Local

this: undefined

▶ e: {ctime: 1653748656, version: '1.6.27'}
 n: "ctime=1653748656version=1.6.27"

▼ r: init
 sigBytes: 32
 ▶ words: (8) [1508505069, -1095563851, -98475
 ▶ [[Prototype]]: Object
 t: "/api/v2/page/get/newrelease-chart"

▶ Closure

▶ Global Window

▼ Call Stack

→ m main.min.js:formatted:6679

y main.min.js:formatted:6705

```
def urlGeneration(name_api: str, param: dict) -> str:
    API_KEY = '88265e23d4284f25963e6eedac8fbfa3'
    SECRET_KEY = b'2aa2d1c561e809b267f3638c4a307aab'

    def get_hash256(string):
        return hashlib.sha256(string.encode('utf-8')).hexdigest()

    def get_hmac512(string):
        return hmac.new(SECRET_KEY, string.encode('utf-8'), hashlib.sha512).hexdigest()

    text = "".join([f"{k}={v}" for k,v in param.items()])
    sha256 = get_hash256(text)

    data = {
        'ctime': param["ctime"],
        'sig': get_hmac512(f"{name_api}{sha256}"),
        'apiKey': API_KEY
    }
    data.update(param)
    return f"https://zingmp3.vn{name_api}?{urlencode(data)}"
```



```
def urlGeneration(name_api: str, param: dict) -> str:
    API_KEY = '88265e23d4284f25963e6eedac8fbfa3'
    SECRET_KEY = b'2aa2d1c561e809b267f3638c4a307aab'

    def get_hash256(string):
        SHA512(
            Hash256("/api/v2/page/get/newrelease-
            chartctime=1653748656version=1.6.27"),
            "2aa2d1c561e809b267f3638c4a307aab"
        )

    data = {
        'c': 'c',
        'sig': get_hash256(f'{name_api}{SHA512}'),
        'apiKey': API_KEY
    }
    data.update(param)
    return f"https://zingmp3.vn{name_api}?{urlencode(data)}"
```



```
315         res = self._rr(api=api)
316         return res
317
318     def get_api_with_signature(self, name_api, param, another_param=None):
319         API_KEY = 'kI44ARvPwaqL7v0KuDSM0rGORTdY1nnw'
320         SECRET_KEY = b'882QcNXV4tUZbvAsjmFOHqNC1LpcBRKW'
321         if not name_api:
322             return
323
324         def get_hash256(string):
325             return hashlib.sha256(string.encode('utf-8')).hexdigest()
326
327         def get_hmac512(string):
328             return hmac.new(SECRET_KEY, string.encode('utf-8'), hashlib.sha512).hexdigest()
329
330         url = f"https://zingmp3.vn{name_api}?"
331         text = ""
332         for k, v in param.items():
333             text += f"{k}={v}"
334         sha256 = get_hash256(text)
335         data = {
336             'ctime': param.get("ctime"),
337             'apiKey': API_KEY,
338             'sig': get_hmac512(r"%s%s" % (name_api, sha256))
339         }
340         data.update(param)
341         if another_param:
342             data.update(another_param)
343         return url + urlencode(data)
```

▼ Request Headers View source

Accept: */*

Accept-Encoding: gzip, deflate, br

Accept-Language: en-US,en;q=0.9,vi;q=0.8

Connection: keep-alive

Cookie: zmp3_app_version.1=1627; zmp3_rqid=MHwyNy43Ni4xMTAdUngMjA5fHYxLjYdUngMjd8MTY1MzmUsIC00TE5NTA1Mg

DNT: 1

Host: zingmp3.vn

Referer: https://zingmp3.vn/moi-phat-hanh

sec-ch-ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft Edge";v="101"

sec-ch-ua-mobile: ?0

sec-ch-ua-platform: "Windows"

Sec-Fetch-Dest: empty

Sec-Fetch-Mode: cors

Sec-Fetch-Site: same-origin

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.64 Safari/537.36 Edg/101.0.1210.53



Elements

Console

Sources

Network x

Performance

Memory

Application

Security

Lighthouse



20



Preserve log



Disable cache

No throttling



Filter



Hide data URLs

All

Fetch/XHR

JS

CSS

Img

Media

Font

Doc

WS

Wasm

Manifest

Other



Has blocked cookies



3rd-party requests



50 ms

100 ms

150 ms

200 ms

250 ms

300 ms

350 ms

400 ms

450 ms

500 ms

550 ms

600 ms

650 ms

700 ms

750 ms

800 ms

850 ms

900 ms

950 ms

1000 ms

1050 ms

1100 ms

1150 ms

1200 ms

1250 ms

1300 ms

1350 ms

1400 ms

1450 ms

1500 ms

1550 ms

1600 ms

1650 ms

1700 ms

1750 ms

1800 ms

1850 ms

1900 ms

1950 ms

2000 ms

2050 ms

2100 ms

2150 ms

2200 ms

2250 ms

2300 ms

2350 ms

2400 ms

2450 ms

2500 ms

2550 ms

2600 ms

2650 ms

2700 ms

2750 ms

2800 ms

2850 ms

2900 ms

2950 ms

3000 ms

3050 ms

3100 ms

3150 ms

3200 ms

3250 ms

3300 ms

3350 ms

3400 ms

3450 ms

3500 ms

3550 ms

3600 ms

3650 ms

3700 ms

3750 ms

3800 ms

3850 ms

3900 ms

3950 ms

4000 ms

4050 ms

4100 ms

4150 ms

4200 ms

4250 ms

4300 ms

4350 ms

4400 ms

4450 ms

4500 ms

4550 ms

4600 ms

4650 ms

4700 ms

4750 ms

4800 ms

4850 ms

4900 ms

4950 ms

5000 ms

5050 ms

5100 ms

5150 ms

5200 ms

5250 ms

5300 ms

5350 ms

5400 ms

5450 ms

5500 ms

5550 ms

5600 ms

5650 ms

5700 ms

5750 ms

5800 ms

5850 ms

5900 ms

5950 ms

6000 ms

6050 ms

6100 ms

6150 ms

6200 ms

6250 ms

6300 ms

6350 ms

6400 ms

6450 ms

6500 ms

6550 ms

6600 ms

6650 ms

6700 ms

6750 ms

6800 ms

6850 ms

6900 ms

6950 ms

7000 ms

7050 ms

7100 ms

7150 ms

7200 ms

7250 ms

7300 ms

7350 ms

7400 ms

7450 ms

7500 ms

7550 ms

7600 ms

7650 ms

7700 ms

7750 ms

7800 ms

7850 ms

7900 ms

7950 ms

8000 ms

8050 ms

8100 ms

8150 ms

8200 ms

8250 ms

8300 ms

8350 ms

8400 ms

8450 ms

8500 ms

8550 ms

8600 ms

8650 ms

8700 ms

8750 ms

8800 ms

8850 ms

8900 ms

8950 ms

9000 ms

9050 ms

9100 ms

9150 ms

9200 ms

9250 ms

9300 ms

9350 ms

9400 ms

9450 ms

9500 ms

9550 ms

9600 ms

9650 ms

9700 ms

9750 ms

9800 ms

9850 ms

9900 ms

9950 ms

10000 ms

10050 ms

10100 ms

10150 ms

10200 ms

10250 ms

10300 ms

10350 ms

10400 ms

10450 ms

10500 ms

10550 ms

10600 ms

10650 ms

10700 ms

10750 ms

10800 ms

10850 ms

10900 ms

10950 ms

11000 ms

11050 ms

11100 ms

11150 ms

11200 ms

11250 ms

11300 ms

11350 ms

11400 ms

11450 ms

11500 ms

11550 ms

11600 ms

11650 ms

11700 ms

11750 ms

11800 ms

11850 ms

11900 ms

11950 ms


```
▼ {err: 0, msg: "Success",...}
  ▼ data: {banner: "https://zmp3-static.zmdcdn.me/skins/zmp3-v5.2/images/chart-new-release-vn.png", type: "so
    banner: "https://zmp3-static.zmdcdn.me/skins/zmp3-v5.2/images/chart-new-release-vn.png"
  ▼ items: [{encodeId: "ZZBAWCCZ", title: "Không Thể Yêu, Không Thể Quên",...},...]
    ► 0: {encodeId: "ZZBAWCCZ", title: "Không Thể Yêu, Không Thể Quên",...}
    ▼ 1: {encodeId: "ZZBFZ0F8", title: "hai mươi hai (22)", alias: "hai-muoi-hai-22-Hua-Kim-Tuyen-AMEE",...}
      ► album: {encodeId: "6B06AU68", title: "hai mươi hai (22) (Single)",...}
        alias: "hai-muoi-hai-22-Hua-Kim-Tuyen-AMEE"
        allowAudioAds: true
      ► artists: [{id: "IWZCOZ0I", name: "Hứa Kim Tuyền", link: "/nghe-si/Hua-Kim-Tuyen", spotlight: false,...}
        artistsNames: "Hứa Kim Tuyền, AMEE"
        duration: 239
        encodeId: "ZZBFZ0F8"
      ► genreIds: ["IWZ9Z08I", "IWZ97FCD"]
        hasLyric: true
        indicators: []
        isIndie: false
        isOffical: true
        isPrivate: false
        isWorldWide: true
        link: "/bai-hat/hai-muoi-hai-22-Hua-Kim-Tuyen-AMEE/ZZBFZ0F8.html"
        mvlink: "/video-clip/hai-muoi-hai-22-Hua-Kim-Tuyen-AMEE/ZZBFZ0F8.html"
        preRelease: false
        rakingStatus: 2
        releaseDate: 1653480000
```

REGULAR EXPRESSION

1 match (107 steps, 61.2ms)

```
:r" \|items\|\"s*:\|s*\|[\|.\|*\|]
```

" gm



TEST STRING

```
hanh","sectionType":"newReleaseChart","sectionId":"hNewr
elease","viewType":"slider","items":
[{"encodeId":"ZZBAWCCZ","title":"Không•Thế•Yêu,•Không•
Thế•Quên","alias":"Khong-The-Yeu-Khong-The-Quen-Khang-
Viet","isOffical":true,"username":"","artistsNames":"Kha
ng•Việt","artists":[{"id":"IWZ9ZB7D","name":"Khang•
Việt","link":"/Khang-
Viet","spotlight":false,"alias":"Khang-
Viet","thumbnail":"https://photo-resize-
zmp3.zmdcdn.me/w240_r1x1_jpeg/avatars/7/7/a/f/77af7df353
7177703cab72e92350aca6.jpg","thumbnailM":"https://photo-
resize-
zmp3.zmdcdn.me/w360_r1x1_jpeg/avatars/7/7/a/f/77af7df353
7177703cab72e92350aca6.jpg","isOA":true,"isOABrand":fals
```

```

def getTopList(name_api:str = '/api/v2/page/get/newrelease-chart', param:dict = None) -> list:
    print('\n[*] Getting list of song')
    with eventlet.Timeout(10):
        if param:
            url = urlGeneration(name_api, {'ctime':_time,'id':param["id'],'version':'1.6.25'})
        else:
            url = urlGeneration(name_api, {'ctime':_time,'version':'1.6.25'})
        response = requests.get(url,headers=HEADERS)
        checking(response)

        data = re.findall(r'"items"\s*:\s*\[.*\]', response.content.decode('utf-8'))
        data = json.loads(data[0].split('"items\":"')[1])

        res = []
        for items in data:
            res.append([items["encodeId"], items["link"]])
    return res

```

```

[*] Getting list of song
def get_songs():
    [*] Number of song: 100
    list:
    p1[['ZZBAWCCZ', '/bai-hat/Khong-The-Yeu-Khong-The-Quen-Khang-Viet/ZZBAWCCZ.html'], ['ZZB
w hai-muoi-hai-22-Hua-Kim-Tuyen-AMEE/ZZBFZ0F8.html'], ['ZZBEU099', '/bai-hat/Chi-Con
ZZBEU099.html'], ['ZZBF8700', '/bai-hat/Dong-Phong-Hoa-Chuc-Lam-Chan-Khang-Jombie/
bai-hat/Nguoi-Anh-Yeu-Anh-Quan-Idol/ZZB8DABW.html'], ['ZZBAFB9A', '/bai-hat/Tinh-D5'}
ZZC00UI6', '/bai-hat/Bien-Cat-Nang-Xanh-Vang-Trang-Nguyen-Vu/ZZC00UI6.html'], ['ZZ
Xem-Nhu-Anh-Chang-May-Ngot-Ngao-Den-May-Cung-Tan-Thanh-May-Remix-Nhat-Tinh-Anh-Tru
, '/bai-hat/Em-La-Qua-Khu-Khong-The-Quen-Thien-Tu/ZZBE0FZC.html'], ['ZZC0WOCZ', '/
'], ['ZZBDE0WC', '/bai-hat/Oi-Anh-Gi-Oi-Hana-Cam-Tien-Tracy-Thao-My/ZZBDE0WC.html'
Thuong-Em-Chau-Khai-Phong-ACV/ZZBUE7ZA.html'], ['ZZBBZ8B7', '/bai-hat/De-Em-Mai-Ye
ZZBAUIBI', '/bai-hat/Mot-Nguoi-Nhe-Nhang-Hon-Trang-Tien-Tien/ZZBAUIBI.html'], ['ZZ
Tinh-Thuong-Men-Thuong-Minh-Giang-Truong-Le/ZZBDZ789.html'], ['ZZBZA009', '/bai-ha
Co-Khong-Giu-Mat-Dung-Tim-Truc-Nhan/ZZBZA009.html'], ['ZZBAWE0F', '/bai-hat/Gui-Ng
ZZBAWE0F.html'], ['ZZBB0ZEC', '/bai-hat/Doan-Tuyet-Nang-Di-Lofi-Version-Phat-Huy-T
bai-hat/Ngay-Hanh-Phuc-Nhat-Mai-Nhu-Quynh/ZZBFAIFC.html'], ['ZZBZAU6C', '/bai-hat/
Co-Sao-Buong-Ban-Tay-Tam-Tam-HiuV-HOA-HONG-DAI-MUSIC/ZZBZAU6C.html'], ['ZZB6DIWD',
ZZB6DIWD.html'], ['ZZC00UU0', '/bai-hat/Chang-Gi-La-Mai-Mai-Thanh-Dat/ZZC00UU0.htr
Mamma-Mia-HIEUTHUHAI-HURRYKNG-MANBO-Negav-REX/ZZB6BBZU.html'], ['ZZB6BB8C', '/bai-

```



```

def getMediaFile(url: str) -> None:
    obj = re.search(r'/.*?/(?P<slug>.*?)\/(?P<id>.*?)\W', url)
    if not obj:
        print('\n[*] Error : not existed!')
        return
    obj__id = obj.group('id')
    obj_slug = obj.group('slug')

    with eventlet.Timeout(10):
        url = urlGeneration('/api/v2/page/get/song', {'ctime': _time, 'id': obj__id, 'version': '1.6.25'})
        response = requests.get(url, headers=HEADERS)
        checking(response)

        #print(response.content.decode('utf-8'))
        data = re.findall(r'"data"\s*:\s*{.*}', response.content.decode('utf-8'))[0][:-10]
        data = json.loads(data.split('"data":')[1])

        title = data["title"]

```

```
▼ {err: 0, msg: "Success",...}
  ▼ data: {encodeId: "ZZBUE7ZA", title: "Thương Em", alias: "Thuong-Em-Chau-Khai-Phong-ACV", isOffical: true,...}
    ► album: {encodeId: "6BOI6O8E", title: "Thương Em (Single)",...}
      alias: "Thuong-Em-Chau-Khai-Phong-ACV"
      allowAudioAds: true
    ► artists: [{id: "IWZ976C7", name: "Châu Khải Phong", link: "/chaukhaiphong", spotlight: false,...},...]
      artistsNames: "Châu Khải Phong, ACV"
      comment: 1446
    ► composers: [...],...
      duration: 300
      encodeId: "ZZBUE7ZA"
    ► genreIds: ["IWZ9Z08I", "IWZ97FCD"]
    ► genres: [{id: "IWZ9Z08I", name: "Việt Nam", title: "Việt Nam", alias: "viet-nam",...},...]
      hasLyric: true
      indicators: []
      isIndie: false
      isOffical: true
      isPrivate: false
      isRBT: true
      isWorldwide: true
      like: 364124
      liked: false
      link: "/bai-hat/Thuong-Em-Chau-Khai-Phong-ACV/ZZBUE7ZA.html"
      listen: 6003019
      preRelease: false
```

```

def downloadLyric(target_id: str) -> str:
    with eventlet.Timeout(10):
        url = urlGeneration('/api/v2/lyric/get/lyric', {'ctime': _time, 'id': target_id, 'version': '1.6.25'})
        response = requests.get(url, headers=HEADERS)
        checking(response)
        #print(response.content)

        lyric = ""

    data = re.findall(r'{"sentences"\s*:\s*\[.*\]\s*}', response.content.decode('utf-8'))
    if data == []:
        data = re.findall(r'{"lyric"\s*:\s*".*?"', response.content.decode('utf-8'))
        if data == []:
            data = re.findall(r'{"file"\s*:\s*".*?"', response.content.decode('utf-8'))
            data = data[0].split("file:")[1][:-2]
            os.system(f"curl -s \"{data}\" -o temp")
            with open('temp', 'r', encoding='utf-8') as f:
                data = f.read()
                data = (data.split("length: ")[1]).split('\n')[1:-1]
                for i in range(len(data)):
                    data[i] = data[i].split(' ')[1] if data[i].split(' ') != [] else ''
            os.system(f"rm temp")
            lyric = '\n'.join(data)
        else:
            data = json.loads(data[0] + '}')
            #print(data)
            lyric = data["lyric"]
    else:
        data = json.loads(data[0].split("{\"sentences\":")[1])
        #print(data)
        for x in data:
            lyric += ' '.join([i["data"] for i in x["words"]]) + '\n'

    return lyric

```

```
▼ {err: 0, msg: "Success", data: {...}, timestamp: 1653750613323}
  ▼ data: {...}
    BGMMode: 0
    ▶ defaultIBGUrls: [...]
```

```

    else:
        data = json.loads(data[0].split("{\\\"sentences\\\": \"}[1])
        #print(data)
        for x in data:
            lyric += ' '.join([i["data"] for i in x["words"]]) + '\\n'
    return lyric

```



```
def download
with eve
url
resp
chec
#pri
```

REGULAR EXPRESSION

1 match (5 747 steps, 13.2ms)

```
:r" {\\"sentences\\"s*:\\s*\\[\\.\\*\\]\\|
```

" gm



TEST STRING

```
data
if d
```

```
{"err":0,"msg":"Success","data":{"sentences":[{"words":
[{"startTime":16059,"endTime":16349,"data":"Lại"},
{"startTime":16349,"endTime":16609,"data":"một"},
{"startTime":16609,"endTime":16849,"data":"người"},
{"startTime":16849,"endTime":17099,"data":"nữa"},
{"startTime":17099,"endTime":17399,"data":"ra"},
{"startTime":17399,"endTime":18259,"data":"đi"}]},
{"words":
[{"startTime":19959,"endTime":20239,"data":"Lại"},
{"startTime":20239,"endTime":20489,"data":"một"},
{"startTime":20489,"endTime":20700,"data":"người"},
{"startTime":20700,"endTime":20950,"data":"nhằm"},
{"startTime":20960,"endTime":21260,"data":"đôi"},
{"startTime":21260,"endTime":21550,"data":"mi"}]}}
```

```
else
```

```
return ly
```

Name

×

Headers

Payload

Preview

Response

Initiator

Timing

5714298647625346942?authen=exp=...

5714298647625346942?authen=exp=...

data:image/png;base...

data:image/svg+xml;...

data:image/svg+xml;...

General

Request URL: https://vnno-vn-5-tf-mp3-s1-zmp3.zmdcdn.me/1566955f4f1ba645ff0a/5714298647625346942?8~acl=/1566955f4f1ba645ff0a/*~hmac=0d1d6647f8742f4f56d3ec374cecd9f3&fs=MTY1MzmUsIC1MDM1ODI1Nnx3Znw0Mi4xMTMdUngMjUyLjlmUsICx

```
link = link.replace('https://', "https://vnno-vn-5-tf-")
os.system(f"curl -s \"{link}\" -o \"{DirDownload}/{filename}\"")
```

data:image/svg+xml;...	Referrer Policy: strict-origin-when-cross-origin
data:image/svg+xml;...	▼ Response Headers View source
data:image/svg+xml;...	Accept-Ranges: bytes
css?family=Open+Sans:300,400,600	Access-Control-Allow-Origin: *

```
2 {
3   "encodeId": "ZZBZA009",
4   "title": "Có Không Giữ Mất Đừng Tìm",
5   "alias": "Co-Khong-Giu-Mat-Dung-Tim-Truc-Nhan",
6   "isOffical": true,
7   "username": "",
8   "artistsNames": "Trúc Nhân",
9   "artists": [
10    {
11      "id": "IWZ99A86",
12      "name": "Trúc Nhân",
13      "link": "/Truc-Nhan",
14      "spotlight": false,
15      "alias": "Truc-Nhan",
16      "thumbnail": "https://photo-resize-zmp3.zmdcdn.me/w240_r1x1_jpeg/avatars/a/
17        .jpg",
18      "thumbnailM": "https://photo-resize-zmp3.zmdcdn.me/w360_r1x1_jpeg/avatars/a/
19        .jpg",
20      "isOA": true,
21      "isOABrand": false,
22      "totalFollow": 83672
23    }
24  ],
25  "isWorldWide": true,
26  "thumbnailM": "https://photo-resize-zmp3.zmdcdn.me/w240_r1x1_jpeg/cover/0/3/9/7/
27  "link": "/bai-hat/Co-Khong-Giu-Mat-Dung-Tim-Truc-Nhan/ZZBZA009.html",
```

```
87 "liked": false,
88 "comment": 63,
89 "lyric": "Bất ngờ, em nói chia tay\nDù lúc tôi đang yêu em đắm say\nVà thế rồi, em mất tăm hơi\nMặc  
chơi với\nHết hồn, nay em nhắn cho tôi\nRồi nói em đang mong thương nhớ tôi\nThế quái nào, em kh  
tim tôi nào phải công viên\nThật ra, tôi nghe nói xa xăm\nBên ai em sống không vui\nNên em mới q  
thương em quá em ơi\nTôi mong em mãi cô đơn\nVà sống được trọn trăm năm\nTất nhiên là khi chia t  
nhiều ngày trôi năm ôm gối\nThế nhưng, người có đâu hay\nNgười mất nhiều lại là em chẳng phải t  
chia tay\nTôi cũng đau tôi cũng buồn ở trái tim\nThế nhưng người hãy nhớ giữ gìn\nCó không giữ thì  
tôi cứ ngỡ sau khi chia tay\nKhông thể quên đi\nBao nhiêu nhớ thương về em\nNgờ đâu, khi chia cá  
tháng thôi\nTôi đã quên sạch rồi em ơi\nTất nhiên là khi chia tay\nTôi cũng buồn nhiều ngày trôi  
, người có đâu hay\nNgười mất nhiều lại là em chẳng phải tôi\nTất nhiên là khi chia tay\nTôi cũn  
trái tim\nThế nhưng người hãy nhớ giữ gìn\nCó không giữ thì mất đừng tìm\nTốt hơn là khi chia tay\nđừng tiếc nuối\nVì chính những lời nói chia tay\nLà em chọn là em chẳng phải tôi\nTất nhiên là k  
đau tôi cũng buồn ở trái tim\nThế nhưng người hãy nhớ giữ gìn\nCó không giữ thì mất đừng tìm\nThế n  
giữ gìn\nCó không giữ thì mất đừng tìm\nCó không giữ thì mất đừng tìm\nCó không giữ thì mất đừng tì  
90 "streams": [  
91 {  
92   "128": "https://mp3-s1-zmp3.zmdcdn.me/74b76cb6c0f729a970e6/4620705450958324966?authen=exp=1652  
    =/74b76cb6c0f729a970e6/*~hmac=4fdf9ef935667bbbb374c51c5ca28ea1&fs  
    =MTY1MjU5NTQ3NDmUsIC0Mnx3ZWJWNnwwfDExMy4xNzYdUngODMdUngMQ"  
93 },  
94 {  
95   "320": "VIP"  
96 }  
97 ]
```



MUSIC PLAYER

Mini Music Player x +

← → ↺ 🏠 127.0.0.1

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetH

0 .-. [Có Không Giữ Mất Đừng Tìm 128kb](#)

1 .-. [Thương Em 128kb](#)

2 .-. [Cớ Sao Buông Bàn Tay 128kb](#)

3 .-. [Xin Lỗi Anh Yêu Em 128kb](#)

4 .-. [Vạn Lý Cô Đơn 128kb](#)

5 .-. [Trọn Vẹn Nghĩa Tình 128kb](#)

6 .-. [Mơ Màng 128kb](#)

7 .-. [Kẻ Nắm Người Buông 128kb](#)

8 .-. [Bản Tình Ca Mùa Đông 128kb](#)

9 .-. [9 Vì Yêu 128kb](#)



File Actions Edit View Help

Inter Exploit-DB Google Hacking DB OffSec

(kali@kali)-[~/Desktop/TermProject_ITITIU19059]

\$ python webserver.py 127.0.0.1 80

[*] Successfully bind on 127.0.0.1:80!

[*] Successfully listen on 127.0.0.1:80!

[*] Web successfully start on http://127.0.0.1:80

[*] Request from user: b'GET / HTTP/1.1'

[*] Request from user: b'GET /listAllMusic.js HTTP/1.1'

[*] Request from user: b'GET /music_info.json HTTP/1.1'



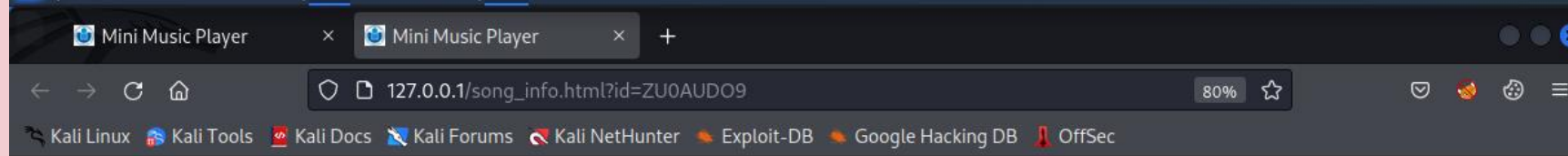
music.html



```
1 <!DOCTYPE html>
2 <html lang="en">
3
4     <head>
5         <meta charset="utf-8">
6         <title>Mini Music Player</title>
7         <script src = "https://ajax.googleapis.com/ajax
8             /libs/jquery/2.1.3/jquery.min.js"></script>
9     </head>
10
11     <body>
12         <ul></ul>
13         <script type="text/javascript" src="
14             listAllMusic.js" defer></script>
15
16     </body>
17
18 </html>
```

```
1 $(window).load( function() {
2     $.getJSON( "music_info.json", function(obj) {
3         $.each(obj, function(key, value) {
4
5             let encodeID = value.encodeId;
6             let stream = value.streams;
7             for (const item in stream) {
8                 let tmp = Object.keys(stream[item]);
9                 if (stream[item][tmp] != "VIP") {
10                     let str = '<p style="color:red;font-size:20px">';
11                     str += key + ' .-. <a href="/song_info.html?id=' + encodeID + '">';
12                     str += value.title + ' ' + tmp + 'kb</a>';
13                     str += '</p>';
14                     $("ul").append(str);
15                 };
16             };
17         });
18     });
19 });
20 });
```

```
16 </html>
```



Bai hat: Diễm Xưa

Ca si: Lưu Anh Loan



Song cover:



Album: Nữ Vẫn Còn Đây

The loại: Việt Nam, Nhạc Trịnh,

Lyric: YES!

128kb



```
<!DOCTYPE html>
<html lang="en">

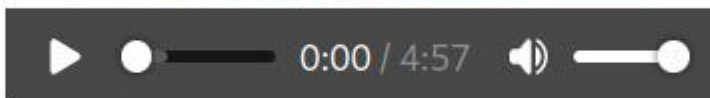
  <head>
    <meta charset="utf-8">
    <title>Mini Music Player</title>
    <script src = "https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js"></script>
  </head>

  <body>
    <ul></ul>
    <script type="text/javascript">
      let mID = "%b";
      $.getJSON( "music_info.json", function(obj) {
        $.each(obj, function(key, value) {
          if (mID == value.encodeId) {

            if (value.title != undefined) {
              $("ul").append('<p style="color:blue;font-size:20px">Bai hat: ' + value.title + '</p>');
            }
            if (value.artistsNames != undefined) {
              $("ul").append('<p style="color:blue;font-size:20px">Ca si: ' + value.artistsNames + '
                </p>');
            }
            if (Object(value.artists[0]).thumbnailM != undefined) {
              $("ul").append('<center></center>');
            }
          }
          else
            if (Object(value.artists[0]).thumbnail != undefined) {
              $("ul").append('<center></center>');
            }
        });
      });
    </script>
  </body>
</html>
```

Bai hat: Diễm Xưa

Ca si: Lưu Ánh Loan



Mưa vẫn mưa bay
Trên tầng tháp cổ
Dài tay em mây

song.html

```
10 <body>
11 <ul></ul>
12 <script type="text/javascript">
13     let mID = "%b";
14     let sKB = "%b";
15     $.getJSON( "music_info.json", function(obj) {
16         $.each(obj, function(key, value) {
17             if (mID == value.encodeId) {
18
19                 if (value.title != undefined) {
20                     $("ul").append('<center><p style="font-size:20px">Bai hat: ' + value.title + '</p></center>');
21                     ;
22                 }
23                 if (value.artistsNames != undefined) {
24                     $("ul").append('<center><p style="font-size:20px">Ca si: ' + value.artistsNames + '
25                     </p></center>');
26                 }
27                 if (value.thumbnailM != undefined) {
28                     $("ul").append('<center></center>');
29                 }
30                 else
31                     if (value.thumbnail != undefined) {
32                         $("ul").append('<center></center>');
33                     }
34
35                 $("ul").append('<center><audio width="500px" height="500px" src="DOWNLOAD/' + value.title + '_' +
36                 sKB + '" type="audio/mp3" controls></audio></center>');
37
38                 if (value.lyric != undefined) {
39                     $("ul").append('<center><p style="font-size:20px">' + value.lyric.replace(/\n/g, '<br>') + '
40                     </p></center>');
41                 }
42                 else $("ul").append('<center><p style="font-size:20px">Lyric: Missing! Do you have
```



DEMONSTRATE TIME

Thanks for your listening!