Response time:

API	Time response with cache	Time response without cache
info	1.4118ms	51.5134ms
search	0.2767ms	97.3080ms
purchase	Here just check if item is out of stock or not found Item not found: 0.2658ms Item out of stock: 0.275199ms	54.53ms Item not found: 10.139679ms Item out of stock: 6.777005ms

API info:

Time calculation without cache:

frontend-container

dos_lab2-frontend-server

43428b62fcf0 🗐

8000:8000 ↗

Logs	Inspect	Bind mounts	Exec	Files	Stats

```
2024-01-10 13:03:15
2024-01-10 13:03:15  > testing@1.0.0 start-dev /app
2024-01-10 13:03:15  > nodemon src/frontend-server.js
2024-01-10 13:03:15
2024-01-10 13:03:15  [nodemon] 3.0.2
2024-01-10 13:03:15  [nodemon] to restart at any time, enter `rs`
2024-01-10 13:03:15  [nodemon] watching path(s): *.*
2024-01-10 13:03:15  [nodemon] watching extensions: js,mjs,cjs,json
2024-01-10 13:03:15  [nodemon] starting `node src/frontend-server.js`
2024-01-10 13:03:16  Server is running on port 8000
2024-01-10 13:04:02  Server port: 8001
2024-01-10 13:04:02  Time taken From server: 0s 51.513466ms
```

Time calculation with cache:

GET ⌄	http://localhost:8000/info/1	Se

Params	Authorization	Headers (6)	Body	Pre-request Script	Tests	Settings

Query Params

	Key	Value	Description	···
	Key	Value	Description	

Body	Cookies	Headers (7)	Test Results	🌐 Status: 200 OK Time: 74 ms Size: 360 B 💾 Save as ex

Pretty	Raw	Preview	Visualize	JSON ⌄	⇄

```
1  [
2      {
3          "id": 1,
4          "title": "How to get a good grade in DOS in
5          "quantity": 0,
6          "price": 50,
7          "type": "distributed systems"
8      }
9  ]
```

EVENT	TIME
Prepare	12.65 ms
Socket Initialization	2.92 ms
DNS Lookup	11.3 ms
TCP Handshake	2.55 ms
Transfer Start	52.54 ms
Download	3.9 ms
Process	0.21 ms
Total	**86.05 ms**

```
2024-01-10 13:04:02  Server port: 8001
2024-01-10 13:04:02  Time taken From server: 0s 51.513466ms
2024-01-10 13:06:12  Data found in cache for item ID 1
2024-01-10 13:06:12  Time taken From cache: 0s 1.4118ms
```

Api Search:

Time calculation without cache:

Time calculation with cache:

```
2024-01-10 13:09:40 Server port: 7001
2024-01-10 13:09:40 Time taken From server: 0s 97.308035ms
2024-01-10 13:10:46 Data found in cache for query distributed systems
2024-01-10 13:10:46 Time taken From cache: 0s 0.276704ms
```

API purchase:

POST	∨	http://localhost:8000/purchase/3	**Send**

Params   Auth   Headers (7)   Body   Pre-req.   Tests   Settings   Cookie

Query Params

	Key	Value	Description	•••	Bulk Edit

Body ∨   ⊕ 200 OK 50 ms 325 B   💾 Save as example

Pretty	Raw	Preview	Visua	EVENT	TIME ⟳

```
1  {
2      "message": "Bought boo
           successfully"
3  }
```

EVENT	TIME
Prepare	4.74 ms
Socket Initialization	1.2 ms
DNS Lookup	1.06 ms
TCP Handshake	0.81 ms
Transfer Start	45.68 ms
Download	1.01 ms
Process	0.06 ms
Total	**54.53 ms**

Time calculation with cache: (Item out of stock)

```
2024-01-10 13:57:27 Item ID 6 is out of stock (cached)
2024-01-10 13:57:27 Time taken From cache: 0s 0.275199ms
```

Time calculation with cache: (Item not found)

```
2024-01-10 14:13:55 Item ID 9 not found (cached)
2024-01-10 14:13:55 Time taken From cache: 0s 0.2658ms
```

Time calculation without cache: (Item not found)

```
2024-01-10 13:59:27 9
2024-01-10 13:59:27 Time taken From server: 0s 10.139679ms
```

Time calculation without cache: (Item out of stock)

```
2024-01-10 13:57:13 [
2024-01-10 13:57:13   {
2024-01-10 13:57:13     id: 6,
2024-01-10 13:57:13     title: 'Why theory classes are so hard.',
2024-01-10 13:57:13     quantity: 0,
2024-01-10 13:57:13     price: 10,
2024-01-10 13:57:13     type: 'distributed systems'
2024-01-10 13:57:13   }
2024-01-10 13:57:13 ]
2024-01-10 13:57:13 Time taken From server: 0s 6.777005ms
```