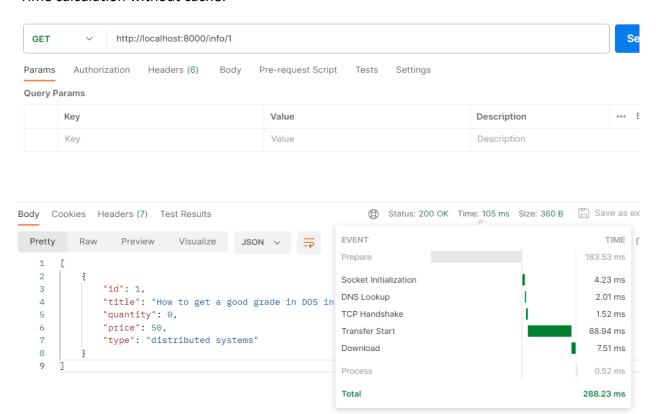
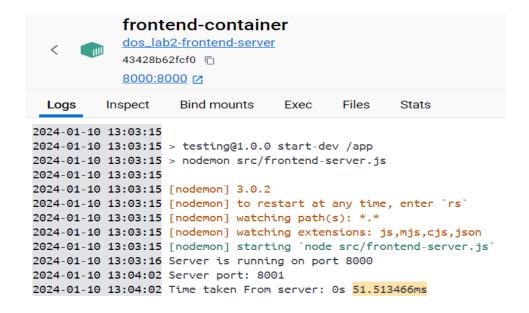
Response time:

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

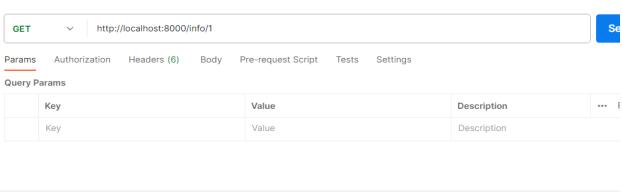
API info:

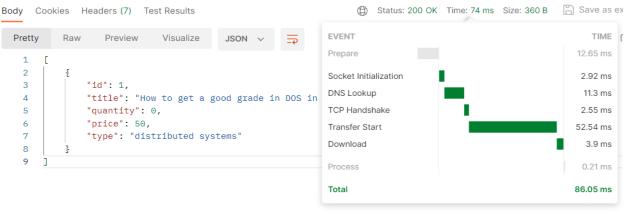
Time calculation without cache:





Time calculation with cache:

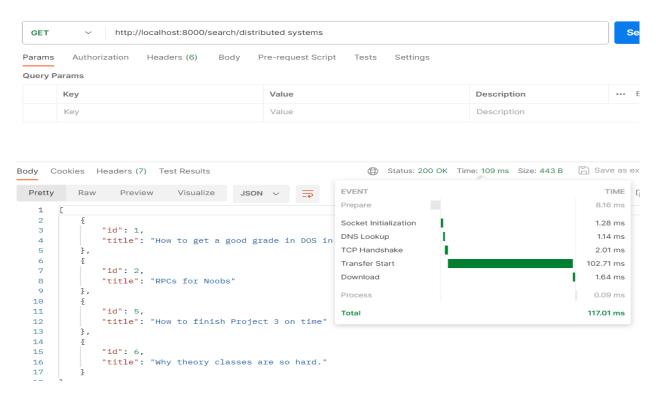




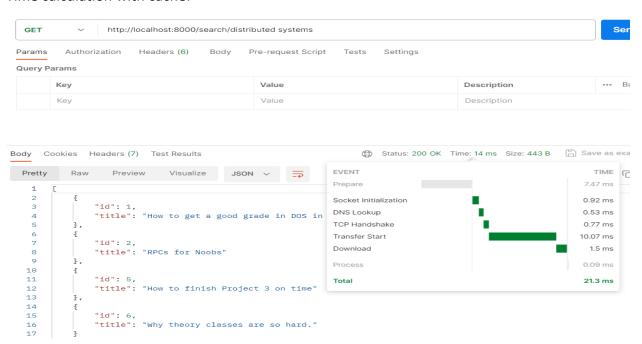
```
2024-01-10 13:04:02 Server port: 8001
2024-01-10 13:04:02 Time taken From server: 0s 51.513466ms
2024-01-10 13:06:12 Data found in cache for item ID 1
2024-01-10 13:06:12 Time taken From cache: 0s 1.4118ms
```

Api Search:

Time calculation without cache:

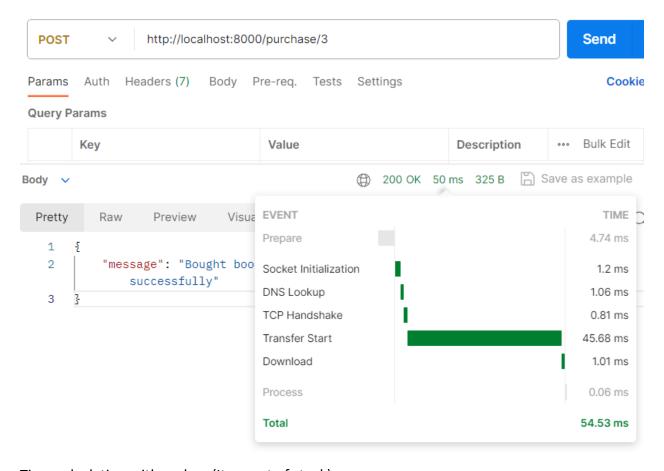


Time calculation with cache:



```
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:



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
```