## Visualize Web Thread Pool



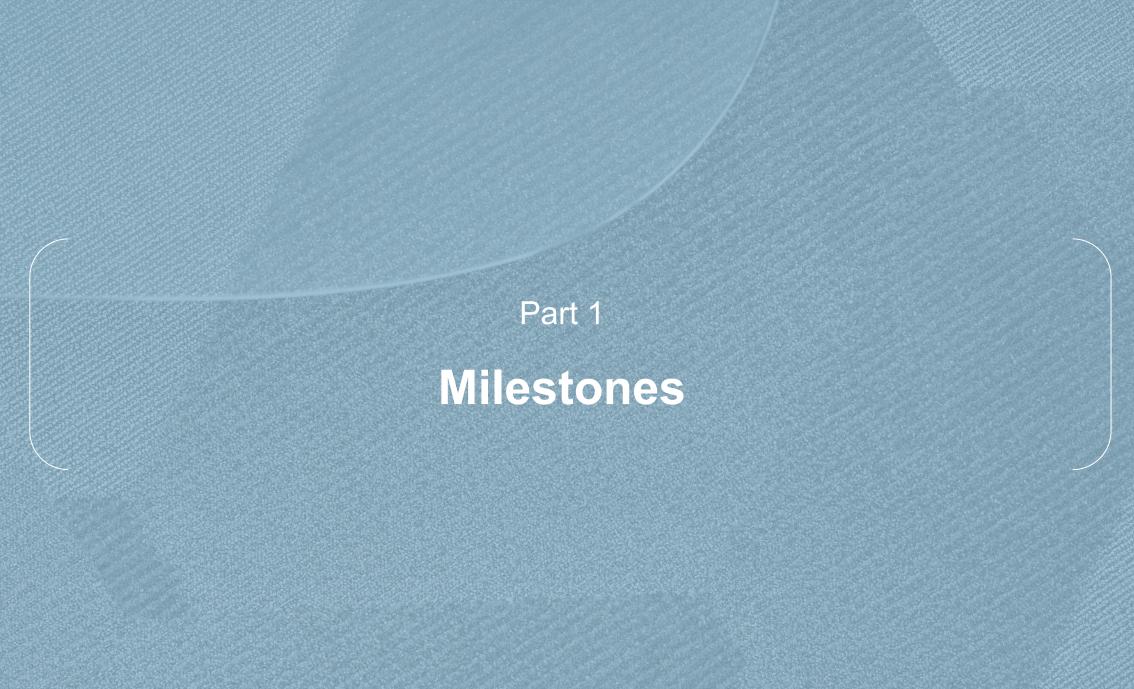


### Contents

1 Milestones

2 Implementation

3 Challenge



Roll	Work
Backend	Complete implementation
Frontend	finished studying react, implementation is 90% done.

Weeks	2 3	4 5	6 7	8 9	10 11	12 13	14 15	
Define Problem	0.0	0						
Tech analysis and Study		0 0	О					
Implement data collecting methods			0 0					
deploy as library				Ο.				
develop web application				. O	0 0	О		
UI/UX Design						0 0		
Testing							0	

Table 5: Weekly Schedule

#### Each Member's Role

- complete backend development and testing api
- handle issues

Kim junyong

### Han Yongjun

- complete frontend development
- design main views
- testing

- complete frontend development
- design main views

### Yoon Jaehwan

## Kim kyeong hyeon

- complete frontend development
- design main views

Part 2

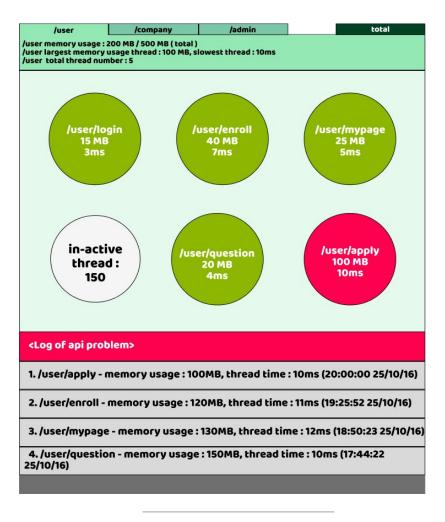
Implementation

### 제목을 입력하세요

Monit	or your Thread p	ool
Enter your Host		
Enter your Port		
Enter your thread number		
	see your threads!	

First Page

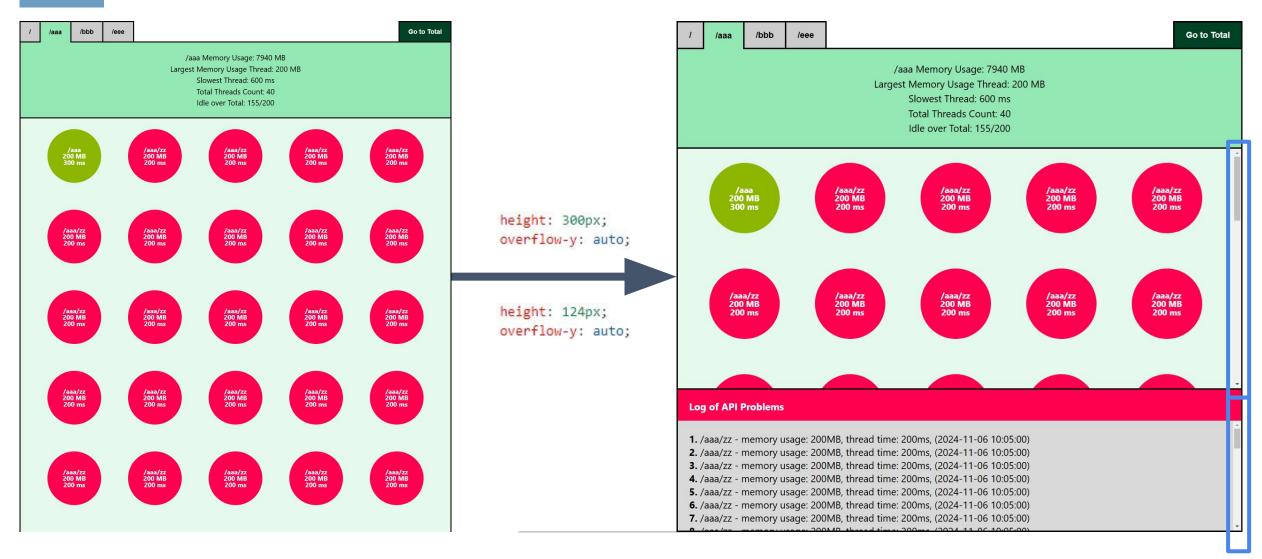
#### 제목을 입력하세요



### Main Page Figma

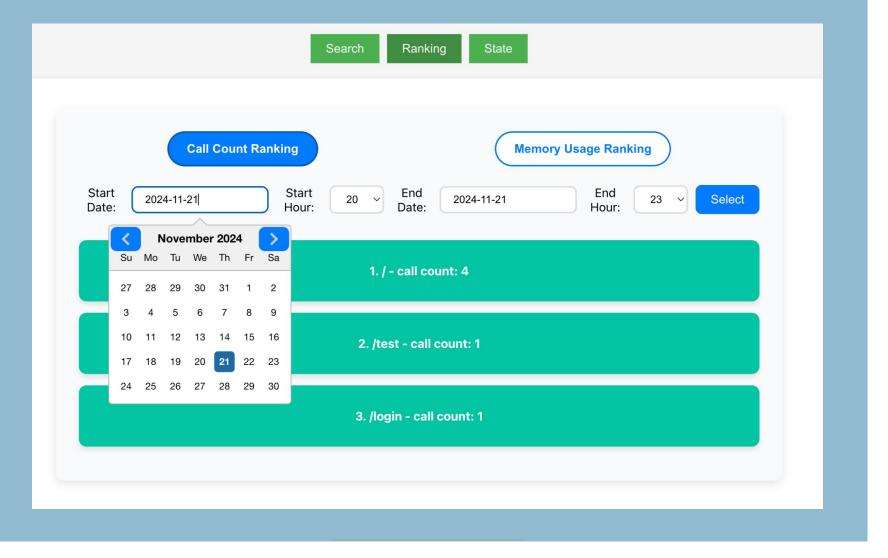
Part 2

#### 제목을 입력하세요



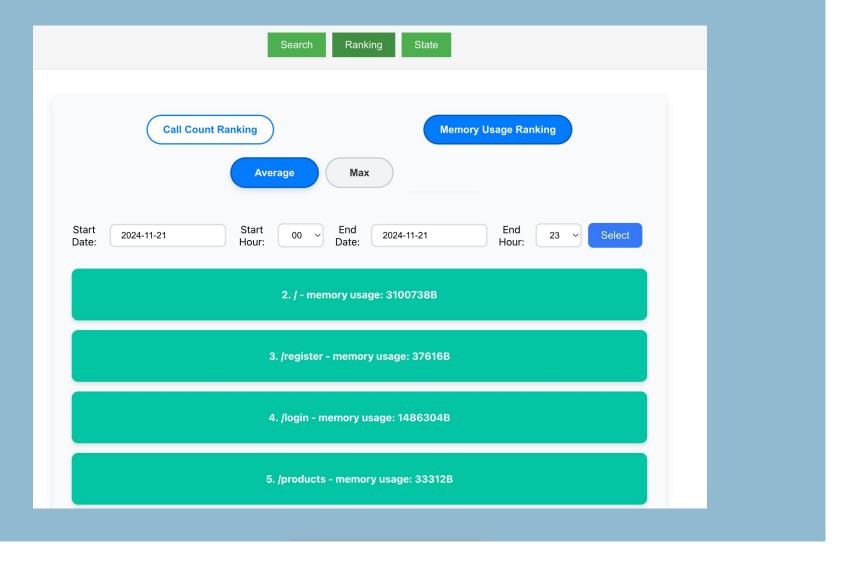
Main Page
Current (with Scroll Implementation)

제목은 이러리 비스



**Summary Page** 

제목은이러린비오



**Summary Page** 

제목은이러린비오

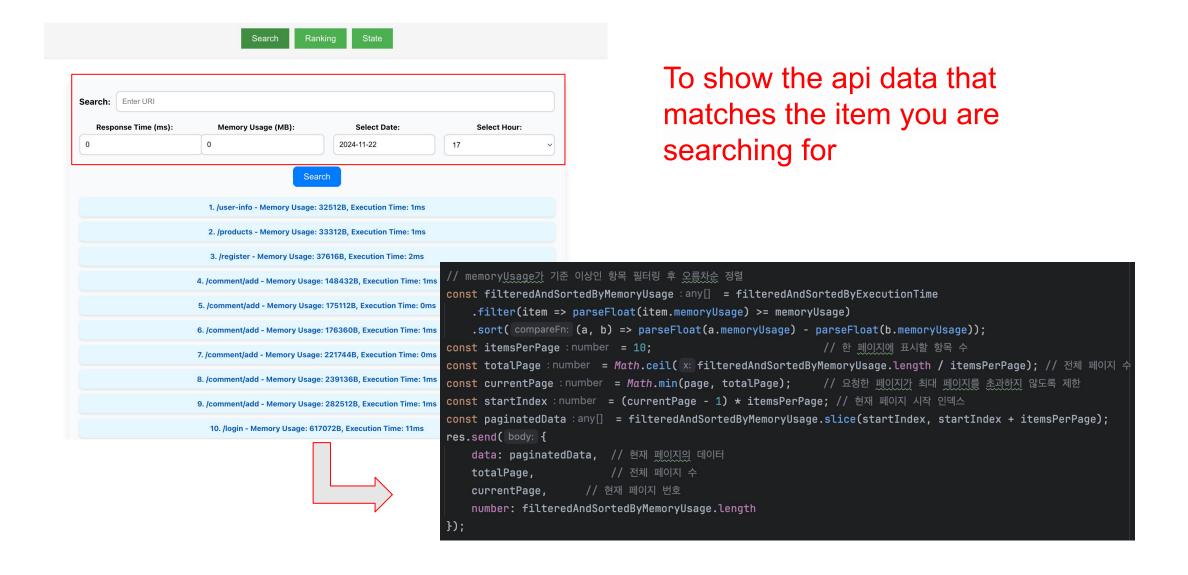
Search: Enter URI				
Response Time (ms):	Memory Usage (MB):	Select Date:	Select Hour:	
0	0	2024-11-22	17 ~	
	Sear	rch		
	1. /user-info - Memory Usage: 3	32512B, Execution Time: 1ms		
	2. /products - Memory Usage: 3	33312B, Execution Time: 1ms		
	3. /register - Memory Usage: 3	7616B, Execution Time: 2ms		
	4. /comment/add - Memory Usage	: 148432B, Execution Time: 1ms		
	5. /comment/add - Memory Usage	e: 175112B, Execution Time: Oms		
	6. /comment/add - Memory Usage	: 176360B, Execution Time: 1ms		
	7. /comment/add - Memory Usage	: 221744B, Execution Time: Oms		
	8. /comment/add - Memory Usage	: 239136B, Execution Time: 1ms		
	9. /comment/add - Memory Usage	: 282512B, Execution Time: 1ms		
	10. /login - Memory Usage: 617	7072B Execution Time: 11ms		

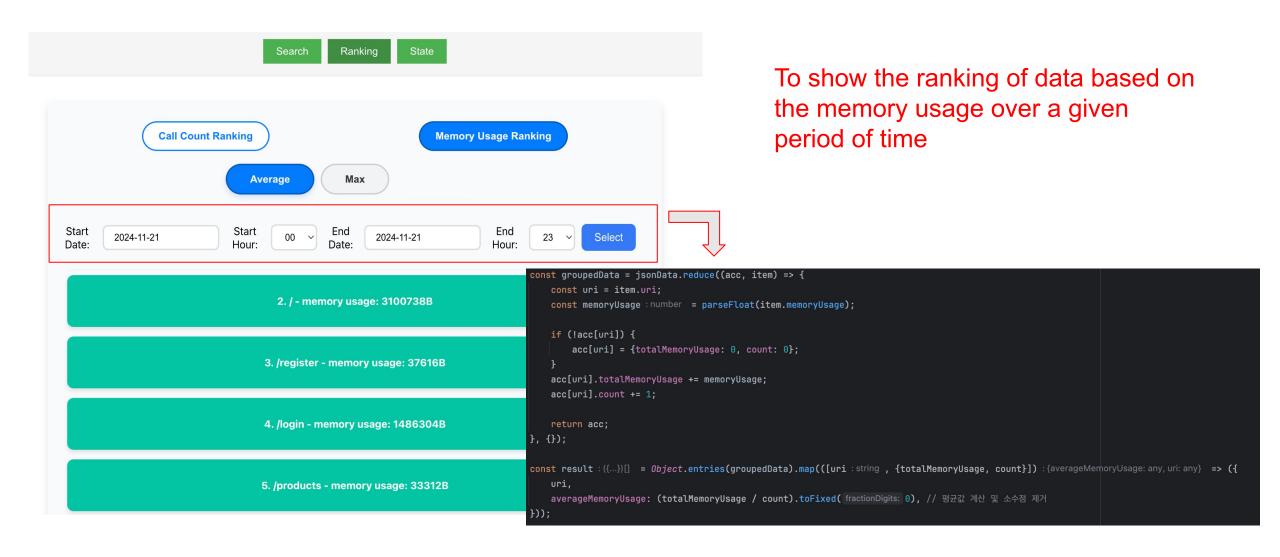
**Summary Page** 

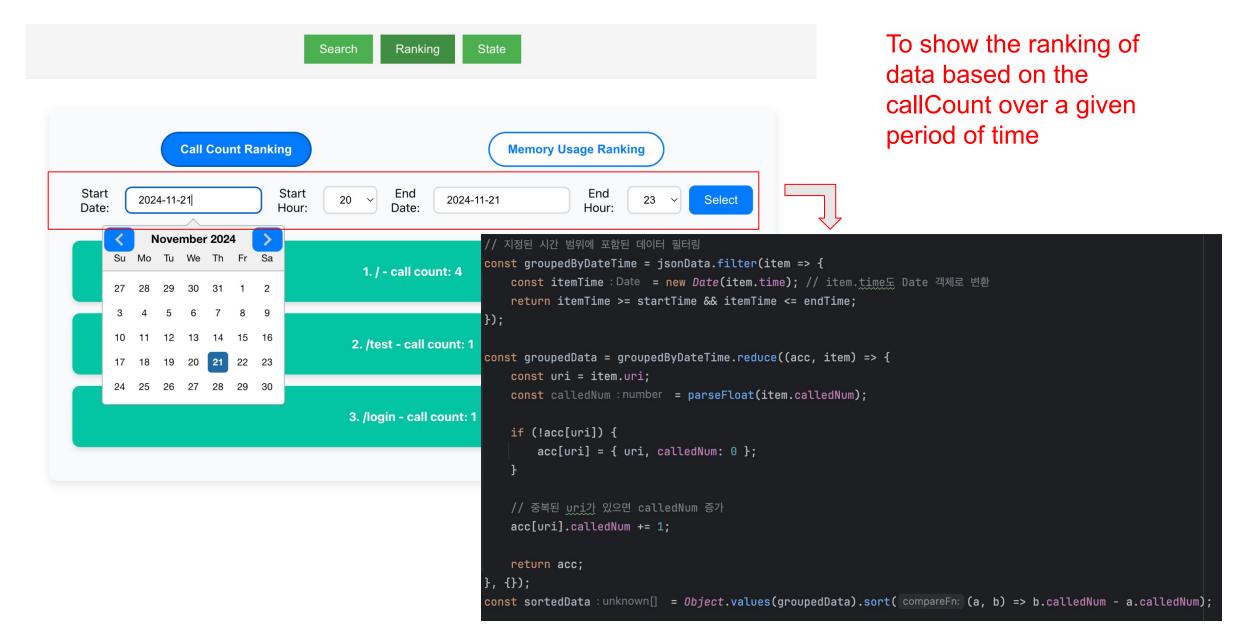
```
"memory usage"
  "request1"
  "request2"
  "request3"
"executionTime"
  "request1"
  "request2"
  "request3"
```

# To transform actuator metrics into useful data

```
"uri": "/test".
    "memoryUsage": "272880",
    "executionTime": "2ms",
    "time"
"2024-11-22T00:13:48.989957",
    "isError": "false".
    "calledNum": 1
    "uri": "/".
    "memoryUsage": "398872",
    "executionTime": "10020ms",
    "time"
"2024-11-22T00:13:39.688466",
    "isError": "false",
    "calledNum": 1
```







Part 3

Challenge

Actuator endpoint Backend user's project request1 sort data filter data

Frontend

ranking service

search(or filter) service

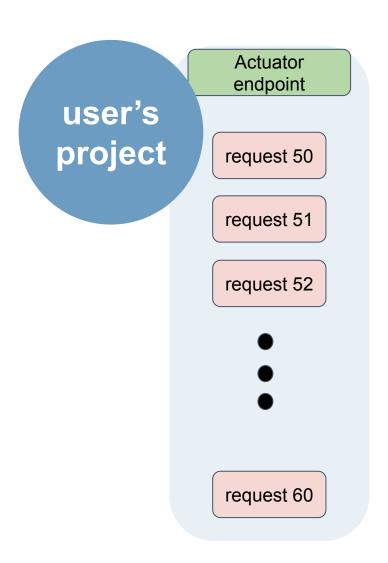
# Challenging Situation : user wants to use this tools for his/her project for long time

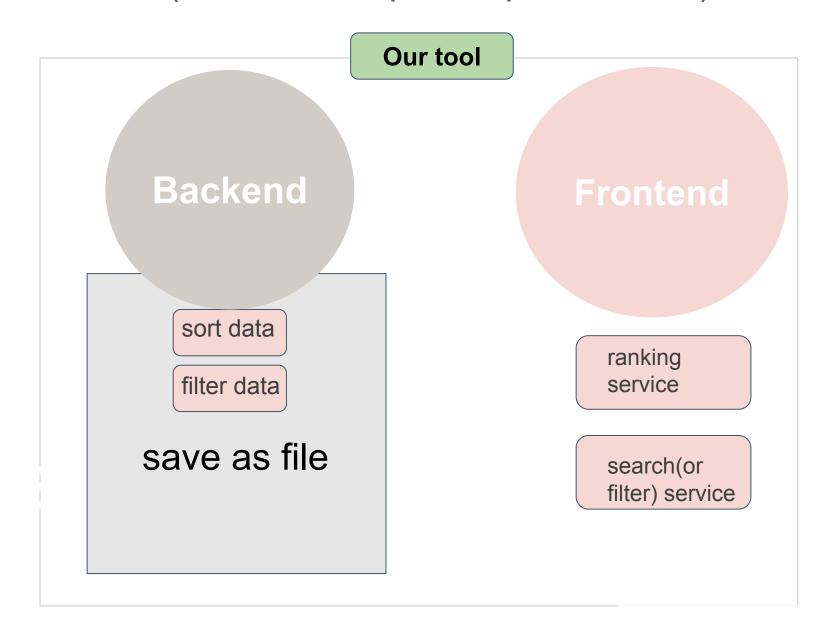
request 100 On user's projet, reset data per 5 seconds (or user can change duration)

Actuator endpoint user's project request 50 request 51 request 52 request 100

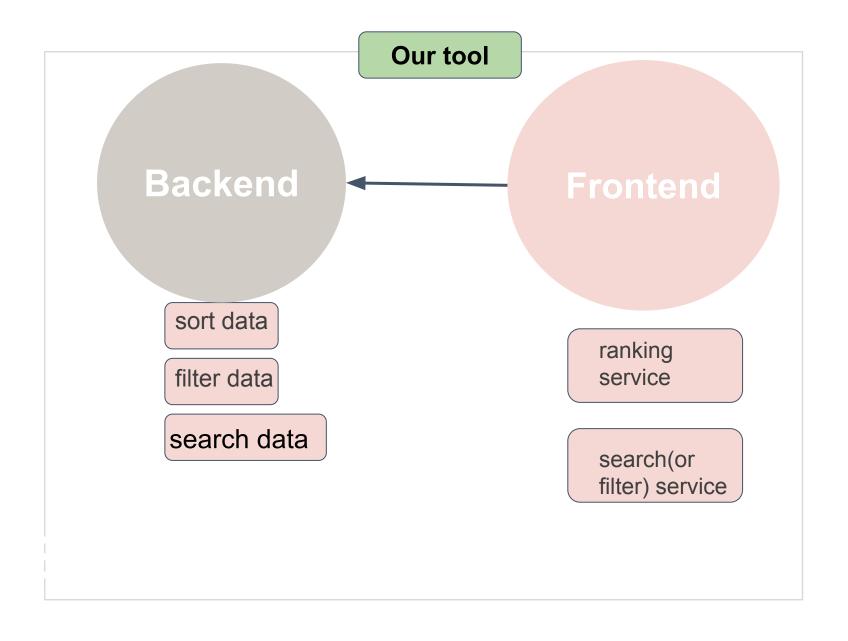
```
@Scheduled(fixedRate = 5000) no usages
public void resetCustomCounter() {
    // 카운터를 수동으로 리셋
    meterRegistry.clear();
}
```

## What about refreshed data?( in this example, request 1 ~ 49)

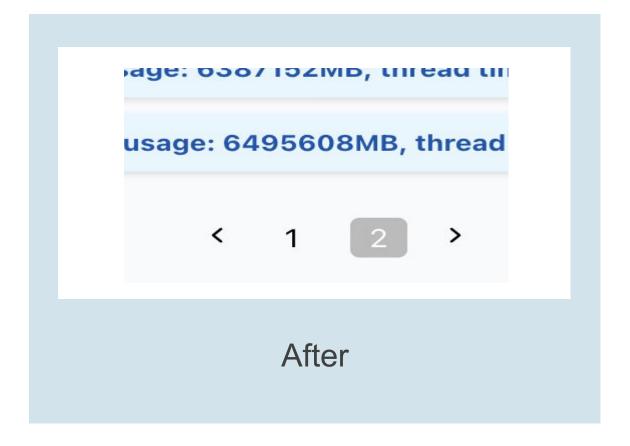




Challenging Situation: if Frontend needs too much data?



# Solved by pagination - used react-js-pagination library



# Challenging Situation: Sorting for ranking service Backend

## Solved by pagination

```
Ranking Api Need SORT!!!
```

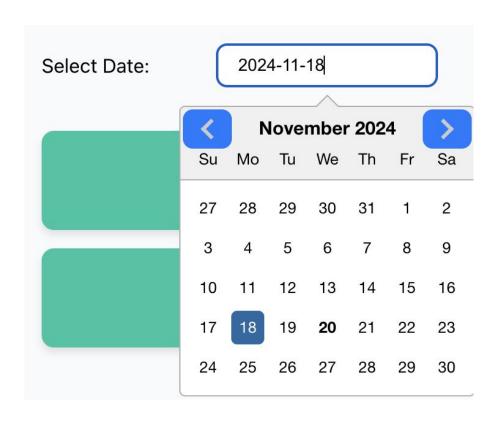
```
const filteredAndSorted
    .filter(item => par
    .sort((a, b) => par
```

Timsort: O(nlogn)
-> merge sort + insertion sort

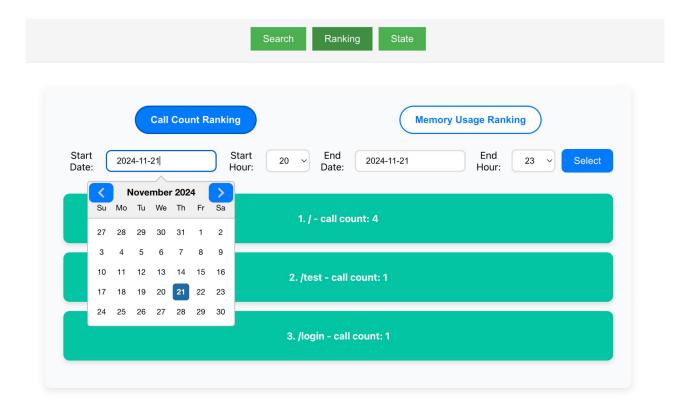
# Challenging Situation : Handling Date and Time Selection Issues in User Inputs - Frontend

제목은의러리비스 Ranking State Search **Call Count Ranking Memory Usage Ranking** 2024-11-22 Select Date: Select Hour: 00 ~ 1. /test - call count: 5 2. / - call count: 1

**Summary Page** 



### http://localhost:3000/api/rank?date=2024-11-20&ti me=00&title=callCount



```
<button onClick={() => handleSelect(currentPage)}>Select</button>
```

```
const handleSelect = async (page = 1) ⇒> {
   const formattedStartDate = `${startDate.toISOString().split('T')[0]}`
   const formattedStartHour = `${startHour}`;
   const formattedEndDate = `${endDate.toISOString().split('T')[0]}`;
   const formattedEndHour = `${endHour}`;
   try {
       const response = await axios.get('api/rank', {
           params: {
                startDate: formattedStartDate,
               endDate: formattedEndDate,
               startHour: formattedStartHour,
               endHour : formattedEndHour,
               calc,
               title: sortCriteria,
                page,
       });
```

