Tool to Visualize web thread pool (for spring project based on tomcat server)

Team name : project101(team B)

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1. Current Progress
2. Overall Architecture
3. Prototype(ui) & additional functions
4. Selected frameworks

Current Progress

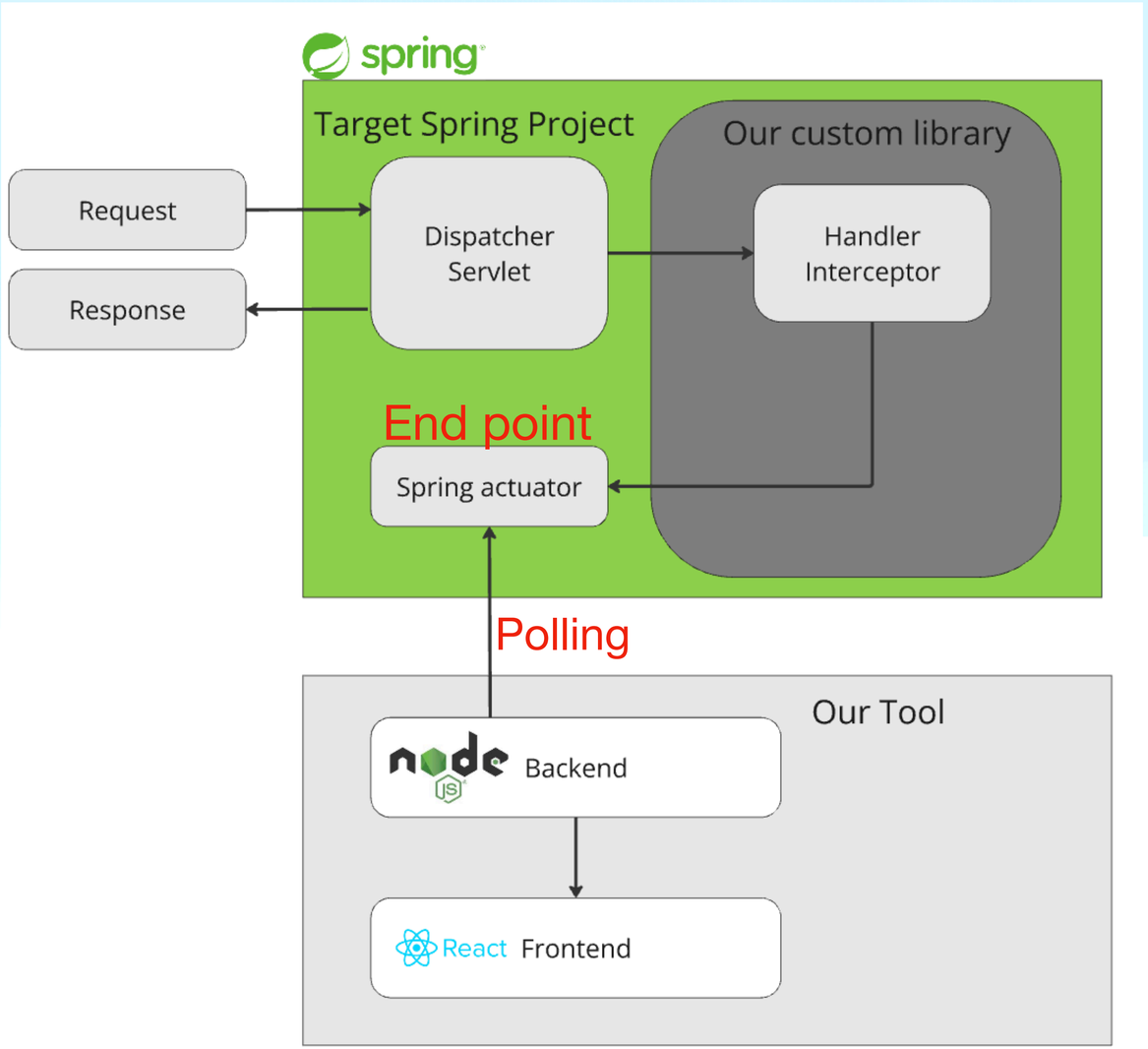
- Study and determination of technologies for each fields
- Design simple prototype of UI
- Design overall architecture
- Add functions

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

Table 5: Weekly Schedule

Overall architecture

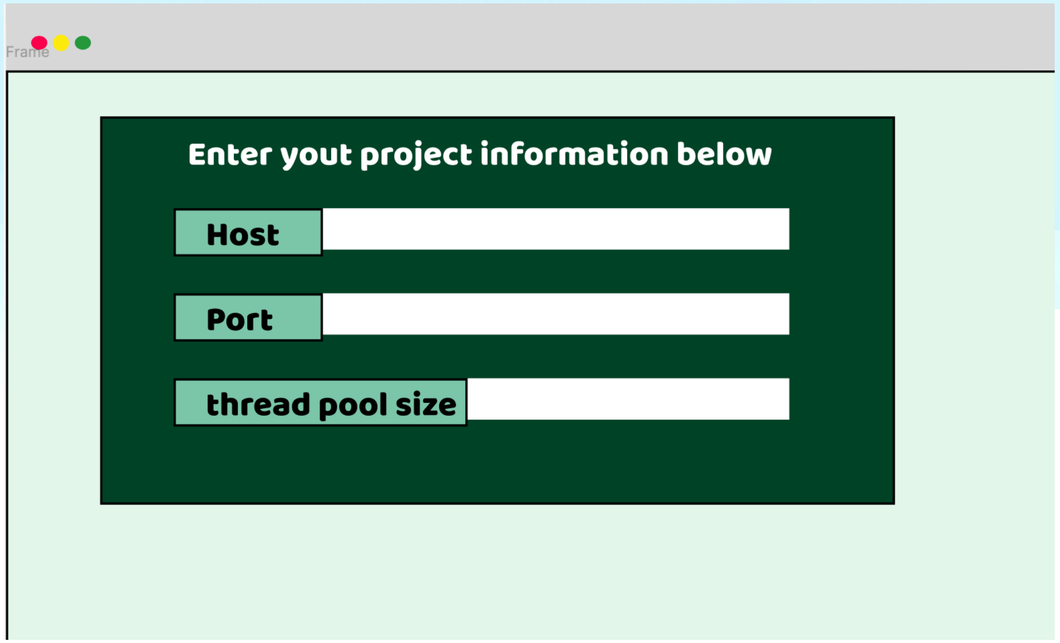
- Custom library
- Backend
- Frontend



Prototype of web page

Concentrated on MVC pattern

- Clustering based on each controller
- Alarm function
- Express each thread as circle
- Memory usage of each single threads



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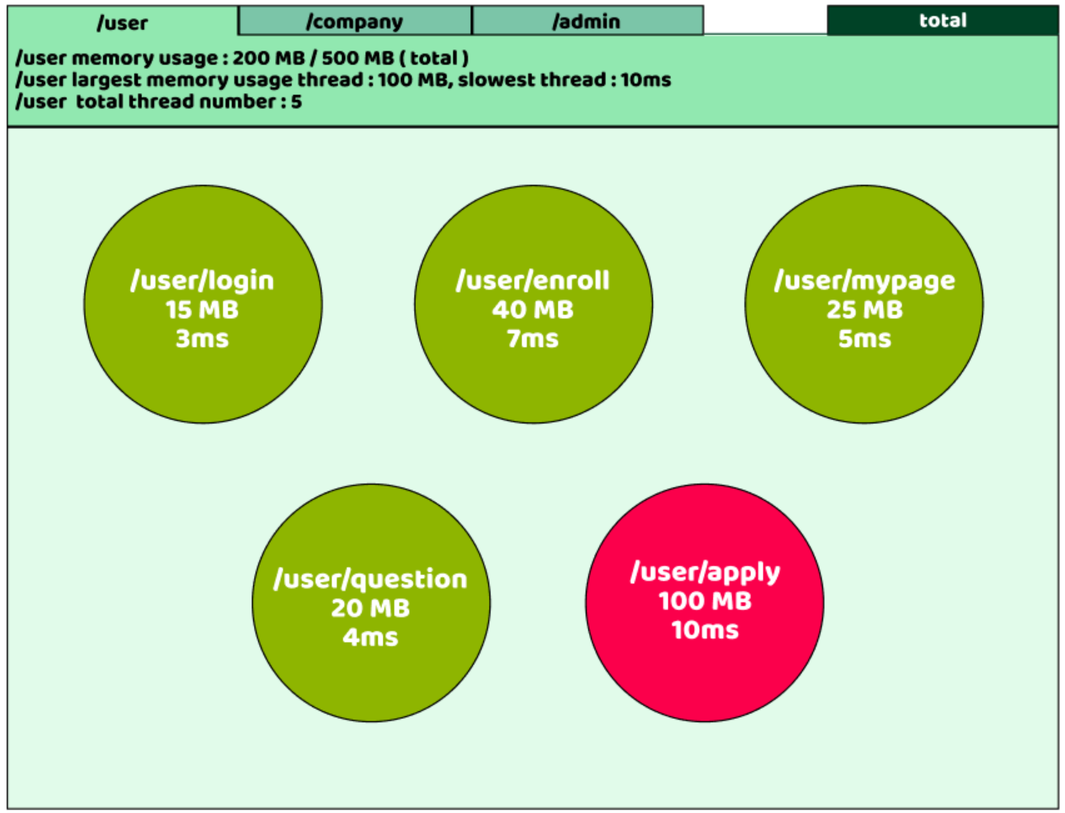

알람 경고를 주는
api는 빨간색으로,
메모리 사용량 높음

Backend - node.js

- node.js is a runtime environment that allows developers to build highly scalable applications using JavaScript.
- Why we choose : our backend just does routing against only “one client”
- single threaded nature.
- low overhead for managing multi threads
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Frontend - React

- Component based architecture -> we can mange each circle (thread) through components : good for reuse and management
- Virtual DOM -> effective for this system cause’ this system requires lots of changes inspect of each threads and through virtual DOM, we can update UI fast and effectively

Custom Library - Spring

- Our tool is targeting projects which are built with Java Spring framework. (Can be used with only Java Spring Project)
- Our tool requires those projects to use our custom library.

Thank you