

Interface

EECS 393

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1. Accepts input from users
 - a. Using Flask Python, we will create some sort of web app front-end that can accept JSON inputs (or generates JSON inputs)
2. When input is complete, divide this input into lists of 10
 - a. Create a small Python method that takes in JSON, divides the result into chunks of 10, and returns an array of lists
3. Send list to back-end one by one in order using Flask (since Flask itself would serve as a back-end)
4. Receives lists (within the Flask app, as Flask would serve as the back-end)
5. Sorts lists
 - a. Create a small Python method that sorts lists
6. Return lists to front-end before receiving next list
7. After front-end receives all sorted list, print out the lists as a sorted array of JSON objects

Front-end Flask Operations:

- Receives JSON
- Method that takes in JSON result and converts it into a list
 - Input: JSON
 - Output: List
- Method that takes in List and chunks this list into lists of 10
 - Input: list
 - Output: Array of lists (with length 10 each)
- Sends result from above method to back-end
- In the end, receives back-end result
- Method that takes in back-end result and prints result
 - Input: JSON
 - Output: Printed result

Back-end Python Operations:

- Receive JSON result from front-end
- Method that takes in front-end array of lists and sorts the lists
 - Input: Array of lists
 - Output: Sorted array of lists
- Method that converts array of lists to JSON
 - Input: Sorted array of lists
 - Output: JSON
- Sends result from above method to front-end