08/06/2024, 01:26 Task 1 (5 Marks)

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Problem Description

Complete the following HTML and JavaScript codes, so that when the button Submit is clicked, the min and the max of the sequence of numbers (which is separated by ",") entered in the input text box will be displayed in the span elements.

Solution

When the document is first loaded, first obtain the Submit button and attach its on-click behaviour to the button element. This allows the button to perform the expected actions when it is clicked.

```
function run() {
  const submitBtn = document.getElementById("button1");
  submitBtn.onclick = handleSubmitButtonClick;
}
```

The functionality to obtain user input and parse the input into a list of numbers is already handled. To obtain the minimum and maximum elements of the list of numbers, the in-built JavaScript functions Math.min() and Math.max() provides the expected functionality. As these functions both expect a sequence of arguments (e.g. Math.min(arg1, arg2, arg3, ...)), the input array of numbers can be spread out (via the ... operator; i.e., ...arr) so that the functions can be called.

```
function getMinMax(arr) {
  return { min: Math.min(...arr), max: Math.max(...arr) };
}
```

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