Performance Analysis for Web Applications

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**(a) Comparisons of Execution Times**

* **Description**: Include an overview of how execution times were measured and their significance.
* **Table: Execution Times** Create a table comparing shortest, longest, and average execution times for 50 and 100 samples.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | |  |   **Web Application** | **Metric** | **50 Samples (ms)** | **100 Samples (ms)** |
| moodle | Shortest Time | 222 | 4559 |
| Longest Time | 2399 | 28551 |
| Average Time | 517 | 21605 |
| home | Shortest Time | 81 | 27 |
| Longest Time | 431 | 1469 |
| Average Time | 188 | 291 |
| notice | Shortest Time | 36 | 56 |
| Longest Time | 276 | 25115 |
| Average Time | 95 | 1659 |

**(b) Comparisons of Throughput, Data Reception, and Data Transmission**

* **Description**: Explain what these metrics represent (e.g., throughput is the number of requests handled per second, data reception/transmission reflects server load).
* **Table: Throughput, Data Reception, and Transmission** Include a table summarizing the metrics for 50 and 100 samples.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | |  |   **Web Application** | **Metric** | **50 Samples** | **100 Samples** |
| moodle | Average Throughput | 30.3/min | 47.1/min |
| Avg Data Received | 42.21 KB/s | 65.50 KB/s |
| Avg Data Sent | 0.12 KB/s | 0.19 KB/s |
| home | Average Throughput | 29.4/min | 47.3/min |
| Avg Data Received | 26.39 KB/s | 42.37 KB/s |
| Avg Data Sent | 0.06 KB/s | 0.09 KB/s |
| notice | Average Throughput | 16.3/min | 17.0/min |
| Avg Data Received | 6.23 KB/s | 6.51 KB/s |
| Avg Data Sent | 0.03 KB/s | 0.04 KB/s |