Amed Tentori

CS4720

Ben Setzer

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**Server\_1 document design:**

|  |  |
| --- | --- |
| **FUNCTION** | **PATH** |
| Get\_all\_areas() | /areas |
| Get\_locations\_for\_area(area\_id = area\_id) | /area/<area\_id>/locations |
| Get\_measurements\_for\_locations(location\_id) | /location/<location\_id>/measurements |
| Get\_categories\_for\_area(area\_id) | /area/<area\_id>/categories |
| Get\_average\_measurements\_for\_area(area\_id) | /area/<area\_id>/average\_measurement |
| Number\_locations\_by\_area(area\_id) | /area/<area\_id>/number\_locations |

* Report1 run time = 21.51 seconds

**Server\_2 document design:**

|  |  |
| --- | --- |
| **FUNCTION** | **PATH** |
| Get\_report() | /report |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

* Report 2 run time = 1.05 seconds

**Comparison of runtimes:**

* Report1 run time = 21.51 seconds
* Report2 run time = 1.05 seconds
* With one request versus several request report2 that uses one request runs a lot faster then report2 that has several requests. Report2 runs 20x faster then report1.