**Reflection on Coverage and Performance**

**Api performance**

I ran a basic load test for 100 concurrent users on the /api/tasks get endpoint 10 times. We can see that the slowest response time was 124 ms and the fastest response time was 2 ms. There were no errors. When looking at the aggregate we can see one of the columns call 90% line. It it 49 ms and this is the response where 90% of the requests are below. This is a pretty good indication of the response time most users will experience. The throughput is how many requests are handled per second.  
Summary Jmeter:

Et billede, der indeholder tekst, skærmbillede, Font/skrifttype, linje/række

Automatisk genereret beskrivelse

Aggregate Jmeter:



**Code coverage**

I used coverlet to measure the test coverage (coverage-report folder and TestResults folder). For the unit tests I wrote tests for all the functionalities create, read, update and delete as well as testing some of the error handling. The integration tests covered the endpoints and tested them using an in-memory database. This ensured that the endpoints processed data correctly and maintained state across requests. I didn’t quite manage to get to 80% test coverage.

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