

NPONTU TECHNOLOGIES

INTERVIEW QUESTIONS [ENGINEERING DEPARTMENT- PLATFORMS DEVELOPER OFFICER INTERN]

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QUESTION

1. Build a simple health check service that monitors 3 endpoints and exposes metrics via /health. Then write a brief analysis of what happens when one service goes down and how you'd detect it in production.

SOLUTION

Names of 3 Endpoints used:

- GitHub → <https://www.github.com>
- My Portfolio Website → <https://dsw-portfolio.vercel.app>
- NonExistent → <http://example.nonexistent>

BRIEF ANALYSIS:

When one of the services goes down, the health check app will immediately reflect that by marking it as **DOWN** on the dashboard and in the /health JSON response. In simple terms, it means our app was not able to get a proper response from that service within the expected time. This could happen for different reasons such as the service being offline, responding too slowly, or returning an error code instead of a success.

In a real production environment, you would not rely only on refreshing the dashboard to know something is wrong. You would usually connect the health check results to monitoring tools that can send alerts by email, SMS, or chat when a service is down. That way, the team can detect the problem quickly, often before users even start reporting issues. Logging the exact reason for the failure (for example, "timeout" or "404 error") is also very useful, because it helps engineers understand what went wrong without guessing.

Github Repository link: <https://github.com/wireduuu/health-service.git>

