Project Title:IHR Status Page

Brief Explanation:

The Internet Health Report (IHR) ecosystem is an essential platform for monitoring and evaluating Internet performance. Given the importance of its services and datasets, maintaining seamless operations is critical for stakeholders including researchers, developers, and users. This project aims to create a robust, user-friendly status page to monitor the health and availability of IHR services and datasets in real time.

Key features of the status page include:

Real-time monitoring of API endpoints, websites (IHR, IHR-archive, and IYP), and the IYP database.

A machine-readable JSON format to facilitate automated integrations and notifications.

Historical tracking of availability data to analyze reliability trends.

Automatic email notifications to alert users and stakeholders when services experience downtime.

The solution will prioritize scalability and maintainability to support future datasets and service expansions as the IHR ecosystem evolves.

Expected Results:

1. Research and implement a monitoring tool suitable for the IHR ecosystem.

2. Design and develop a status page that monitors the availability of all IHR services.

3. Provide a machine-readable JSON format for the status page, enabling automated workflows.

4. Implement automated email notifications to alert users during service disruptions.

5. Ensure the platform is scalable for future updates and extensions.

GitHub Discussion:

For further insights and ongoing discussions, please refer to the related GitHub thread.
https://github.com/orgs/InternetHealthReport/discussions/51

Knowledge Prerequisite:

Familiarity with the IHR ecosystem, API, and database structures.

Proficiency in Docker for containerized deployment and management.

Expertise in web development, including frontend and backend technologies.

Resources:

IHR API Documentation

IHR Archive

IYP Website and Database

Project Size:90 hours

Difficulty Level: Easy

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