

Harvest Backend Challenge

Overview:

Your task, should you choose to accept it, is a backend challenge which involves integrating a WordPress site with a Node.js backend and a Python-based data processing service. You will have to fetch data from the WordPress site, process it using a Python service, and make this processed data available through a Node.js API.

Requirements:

WordPress Site:

- Host a WordPress site that serves as the source of data.
- Ensure the WordPress REST API is enabled.

Node.js Backend:

- Create a Node.js application that fetches data from the WordPress REST API.
- Expose an API endpoint in Node.js to serve processed data.
- Implement a caching mechanism to store processed data.

Python Data Processing Service:

- Develop a Python service that processes the data fetched from the WordPress site.
- Expose the processing logic via an HTTP API.

Integration:

- Integrate the Node.js backend with the Python service.
- Fetch raw data from WordPress, send it to the Python service for processing, and serve the processed data through the Node.js API.

Deployment and Documentation:

- Dockerize all components.
- Provide a docker-compose file to run the entire setup.
- Document the setup process, API endpoints, and any configuration required.

Submission Requirements

- **Code Quality:** Ensure the code is clean, well-structured, and follows best practices.
- **Functionality:** Verify that the Node.js backend correctly fetches, processes, and caches data.
- **Documentation:** Provide clear instructions in the README file.
- **Deployment:** The solution must be deployable using Docker and docker-compose.

We look forward to seeing what you've got so have fun. Please submit your solution as a GitHub repository with clear instructions on how to run your application to dayne@harvest.net.au. Best of luck!!!