Fanwave Digital

Technical Assessment

Project Overview

You are tasked with creating a web application that displays real-time information about the latest cryptocurrency prices. Your application will retrieve data from a publicly available REST API and present it through a clean, responsive frontend.

Objective

Build a small web application using **Laravel**, **Vue.js**, **Nuxt.js** (or a similar framework), and **Tailwind CSS**. The application should:

- Fetch and display data from a public cryptocurrency REST API
- Allow users to view details and interact with the data through the frontend

We appreciate you taking the time to complete this assessment. While we hope it should take no more than 2–4 hours of your time, please take the time you need — there is no strict time limit.

AI Tooling — Our Expectations

We understand and encourage the use of AI tools as part of your development process.

Feel free to use tools like ChatGPT, GitHub Copilot, or others — **you won't be penalised for doing so**. In fact, we'd love to hear what tools you've used and how they helped you along the way. Just ensure that:

- You **fully understand** any code written with AI assistance
- You can **explain your decisions** and the reasoning behind the implementation
- The AI is supporting your thought process, not replacing it

We're more interested in your understanding and approach than just the end result.

Instructions

1. Create a web app that integrates with a public REST API using the technologies listed below.
2. Display the top 10 cryptocurrencies by market cap on the homepage.
3. Enable detailed views for each cryptocurrency (e.g., price, volume, market cap).
4. Add a search feature to find cryptocurrencies by name or symbol.
5. Ensure the app is responsive and mobile-friendly.
6. Submit your work via a GitHub repository.
7. **Include a README file that:**
    - **Briefly explains your development process and design decisions**
    - **Lists any AI tools used and how they contributed**
    - **Provides clear instructions on how to get the application running locally**

Technical Requirements

- Backend: **Laravel** (including REST API integration)
- Frontend: **Vue.js** and **Nuxt.js** (or a comparable framework)
- Styling: **Tailwind CSS**
- Data Source: CoinGecko API

Endpoints to Use:

- `/coins/markets`: List of top cryptocurrencies by market cap
- `/coins/{id}`: Detailed info on a selected cryptocurrency

Deliverables

Submit a GitHub repository that includes:

1. Laravel-based backend API code
2. Frontend built with Vue.js/Nuxt.js or similar

3. Clear instructions to run the app locally
4. A README file containing:
    - Brief description of how the app works
    - Setup steps for local installation
    - AI tools used and your reasoning

Evaluation Criteria

Your submission will be assessed based on the following:

1. **Functionality**: Does the app meet all outlined requirements?
2. **Code Quality**: Structure, readability, maintainability, and adherence to best practices
3. **User Interface**: Visual appeal, responsiveness, and overall user experience
4. **Technology Usage**: Effective use of Laravel, Vue/Nuxt, Tailwind, and the CoinGecko API
5. **AI Integration Insight**: Transparency and clarity about how AI was used
6. **Creativity**: Extra features, elegant UI, or unique approaches that go beyond the brief
7. **Error Handling & Security**: Proper handling of API errors and attention to secure practices
8. **Documentation**: Inline comments, clear setup instructions, and a well-written README
9. **Ease of Setup**: Clear and straightforward steps to get the application running locally, including any required environment configuration

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Summary

Once you've submitted your assessment, we'll use it as a foundation for discussion during your technical interview. This is **not a pass/fail test**, but rather a tool to help us understand both your knowledge of software engineering fundamentals and your proficiency with our tech stack.

While your technical skills play a significant role in our evaluation process, we also value the broader set of qualities you bring — including communication, collaboration, problem-solving, and your approach to learning.

Good luck — we're excited to see your work and look forward to discussing it further during your technical interview.