**Project Design Phase**

**Solution Architecture**

| Date | 8 March 2025 |
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| Team ID | SWTID1741283645153278 |
| Project Name | Cryptoverse: A Cryptocurrency Dashboard |
| Maximum Marks | 4 Marks |
| Team Members | KUMARAVEL D, V M ADITHYA, SURESH KUMAR K, RANJITH KUMAR G, HEMANATH S |

**Solution Architecture:**

The solution architecture for the Cryptocurrency Tracking Application ensures a scalable, efficient, and user-friendly platform for tracking real-time cryptocurrency market data, trends, and analytics.

**Goals of the Solution Architecture:**

Identify the Best Tech Solution:

* Utilize modern front-end frameworks (React.js) and APIs (RapidAPI, CoinGecko) to provide a seamless and interactive crypto market tracking experience.

Define Structure & Characteristics:

* Ensure a modular, scalable, and maintainable software architecture that supports future feature enhancements like AI-based price predictions and DeFi analytics.

Outline Features & Development Phases:

* Clearly define project milestones, including UI/UX design, API integration, database structuring, and deployment strategy.

Establish Specifications for Development & Delivery:

* Provide well-defined guidelines for system architecture, API integrations, data flow, and real-time data handling.
* Implement a high-performance backend to support large-scale user requests without delays.

