Project Design Phase
Solution Architecture

Date	6 March 2025
Team ID	SWTID1741151463
Project Name	Crypto currency
Maximum Marks	4 Marks
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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.

User interface

Data displayed on UI

Components

Home

API integration

Filter by selected crypto coin

Fetch data from API

Handlle API request

Data flow

User searched currency

User selectes crypto currency

Response received

API request