**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 10 March 2025 |
| Team ID | SWTID1741258148149965 |
| Project Name | Cryptoverse: A Cryptocurrency Dashboard |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| |  | | --- | | **ID** | | |  | | --- | | **Requirement** | | |  | | --- | | **Description** | |
| |  | | --- | | FR-01 | | |  | | --- | | Home Page Navigation | | The system shall display a home page that allows users to navigate to cryptocurrency data. |
| |  | | --- | | FR-02 |  |  | | --- | |  | | Fetch Data from Coin Ranking API | The system shall retrieve real-time cryptocurrency data from the Coin Ranking API. |
| |  | | --- | | FR-03 | | |  | | --- | | Display Top 10 Cryptocurrencies | | The system shall list the top 10 cryptocurrencies based on ranking and market data. |
| |  | | --- | | FR-04 | | |  | | --- | | Search Cryptocurrency | | The system shall allow users to search for a specific cryptocurrency by name or symbol. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| |  | | --- | | **ID** | | |  | | --- | | **Requirement** | | |  | | --- | | **Description** | |
| NFR-1 | **Usability** | The app should have an intuitive and user-friendly interface, ensuring smooth. |
| NFR-2 | **Security** | API Requests must be secured. The app should prevent unauthorized . |
| NFR-3 | **Reliability** | The app should ensure a consistent and uninterrupted experience, minimizing crashes and downtime. |
| NFR-4 | **Performance** | Crypto currencies should load with minimal buffering. The app should respond to user interactions (search, price chart) within 2 seconds |
| NFR-5 | **Availability** | The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones. |