**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Date | 6 March 2025 |
| Team ID | SWTID1741172947157270 |
| Project Name | CryptoPulse |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

**Table-1 : Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | Web-based interface for crypto currency | HTML, CSS, JavaScript / Angular Js / React Js etc. |
|  | Application Logic-1 | Top 10 crypto currency and data management | Java / Python |
|  | Application Logic-2 | All crypto currency and user search for selected currency | IBM Watson STT service |
|  | External API-1 | Fetching Coinranking API data | IBM Weather API, etc. |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, ANTD, chart.js |
|  | Scalable Architecture | Securing API calls and access controls | HTTPS, API key authentication (RapidAPI) |