

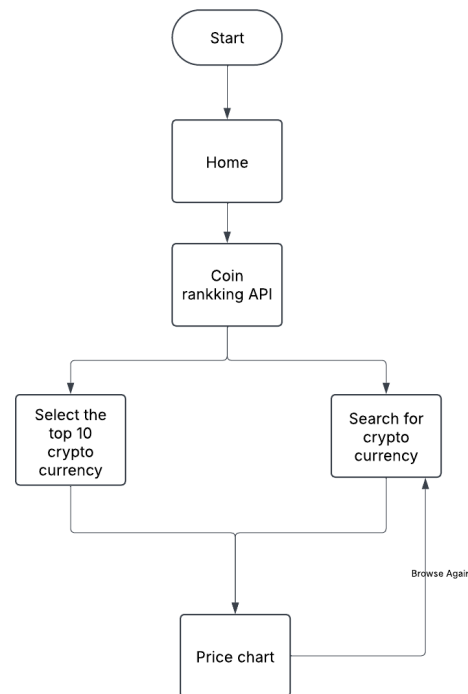
Project Design Phase-II

Data Flow Diagram & User Stories

Date	10 March 2025
Team ID	SWTID1741158432151087
Project Name	Cryptoverse
Maximum Marks	4 Marks
Team Leader	A. Muthu Rafina
Team member 1	L. Leelavathi
Team member 2	S. Lekha
Team member 3	C. Madhumitha
Team member 4	S. Malini

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is



stored.

User Stories

Use the below template to list all the user stories for the product.

User Type	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)	USN-1	As a user, I can search for crypto currencies, Price chart or All crypto currencies	I can access my account / dashboard	High	Sprint-1
Customer (Web user)	USN-2	As a user, I can view trending and top 10 crypto coins on home page	I can receive confirmation email & click confirm	High	Sprint-1
Customer (Web user)	USN-3	As a user, I can buy, sell and View the Crypto currencies	I can register & access the dashboard with Facebook Login	Low	Sprint-2

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	10 March 2025
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Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Crypto Currencies and Discovery	Search for crypto currencies
		Top 10 crypto currencies on home page
FR-2	Price chart	You can see the price chart of specific crypto currency in it
FR-3	Admin Management	Manage Users and Accounts
		Monitor System Analytics

Non-functional Requirements:

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

FR No.	Non-Functional 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.
NFR-6	Scalability	The app should handle increasing numbers of users and concurrent streams efficiently without

		performance degradation. The architecture should support future feature expansion.
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Project Design Phase-II
Technology Stack (Architecture & Stack)

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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
1.	User Interface	Web-based interface for crypto currency	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Top 10 crypto currency and data management	Java / Python
3.	Application Logic-2	All crypto currency and user search for selected currency	IBM Watson STT service
4.	External API-1	Fetching Coinranking API data	IBM Weather API, etc.

Table-2: Application Characteristics:

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