Project Design Phase-II
Data Flow Diagram & User Stories

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Team ID	NM2023TMID15525
Project Name	Data-Driven Insights on Olympic Sports Participation and Performance

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. Here's an example of a DFD for a system that generates data-driven insights on Olympic sports participation and performance:

Example:

Flow
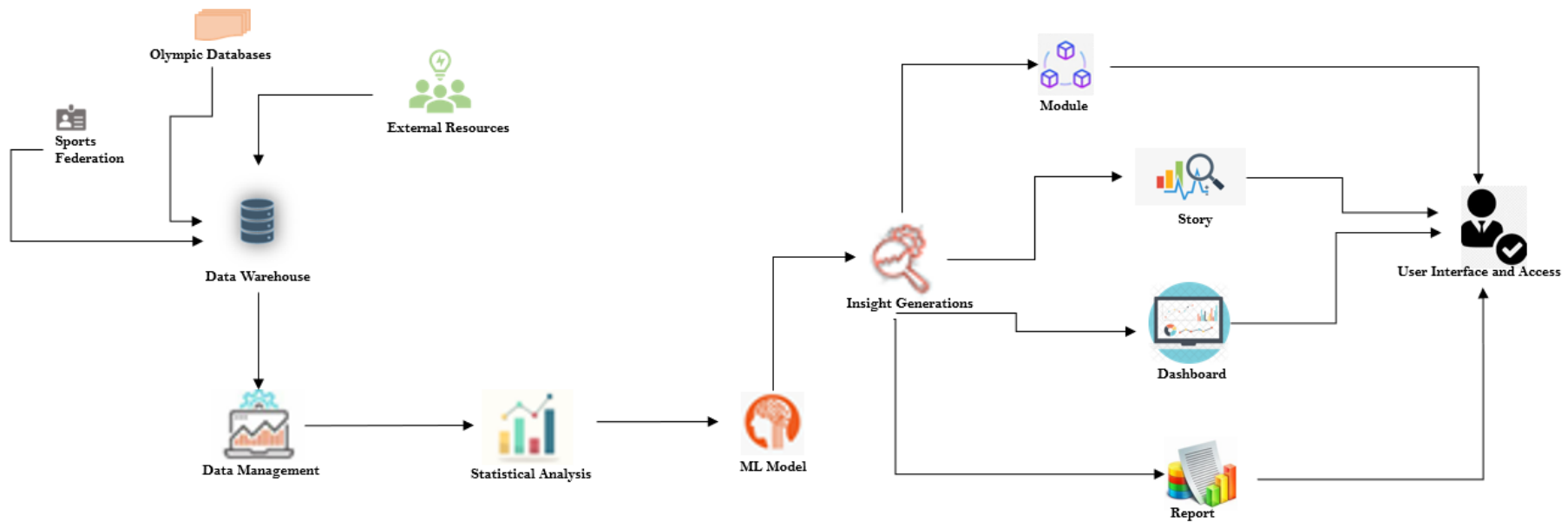
Explanation of the components:

1. User: The person interacting with the system, who selects the analysis parameters and receives the generated insights.

2. Data-Driven Insights: The core component that drives the analysis and generates insights based on the selected parameters.

3. Data Repository: The storage location where the relevant data for Olympic sports participation and performance is stored.

4. Data Processing: This component retrieves the required data from the repository and processes it for analysis.

5. Statistical Analysis: Performs statistical analysis on the processed data to extract meaningful patterns and relationships.

6. Insights Generation: Based on the results of the statistical analysis, this component generates data-driven insights and conclusions.

7. Presentation: The generated insights are presented to the user in a clear and understandable format.

The dataflow starts with the user selecting the analysis parameters. The Data-Driven Insights component then requests the necessary data from the Data Repository. The Data Processing component retrieves the data and prepares it for analysis. The Statistical Analysis component performs the analysis, and the results are passed to the Insights Generation component. Finally, the insights are presented to the user through the Presentation component.

Example: DFD Level 0
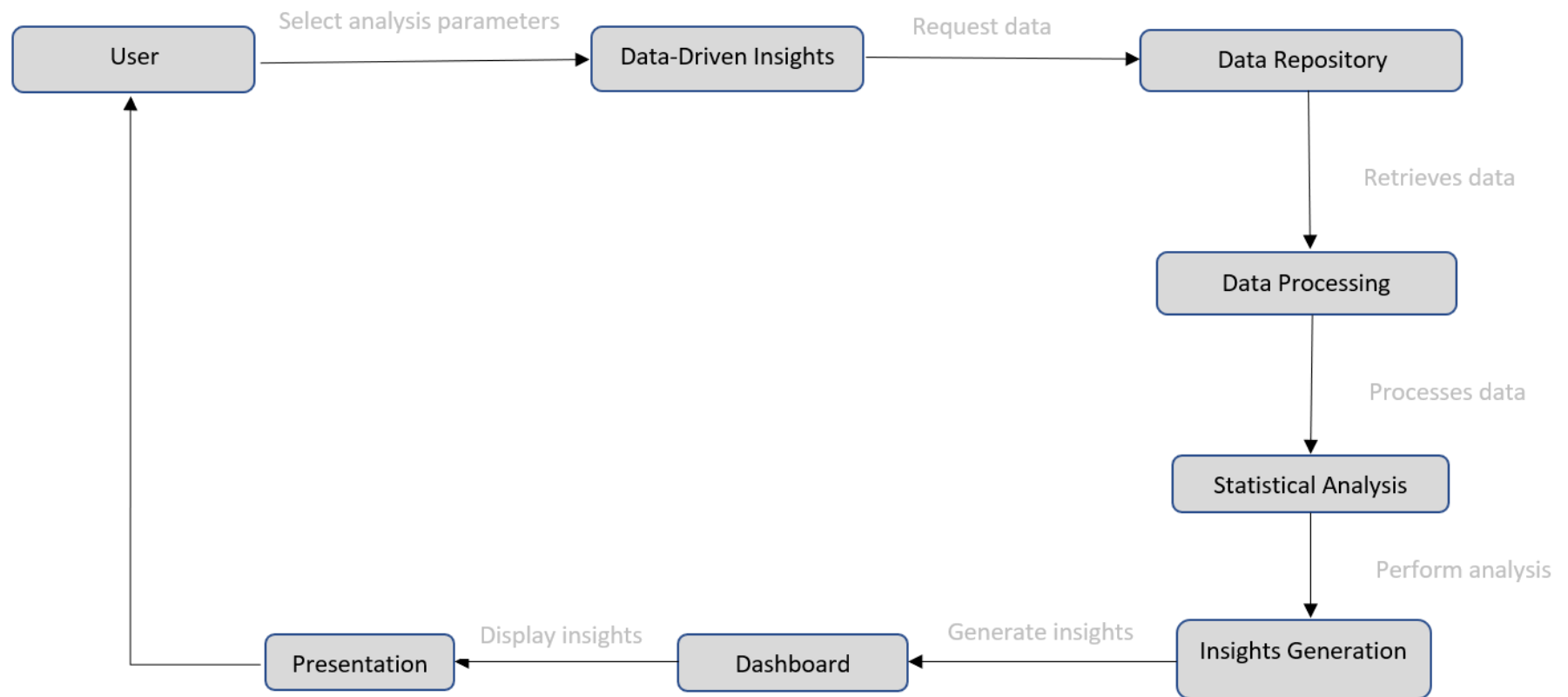
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer (User)	Registration & Login	USN-1	As a sports journalist, I want to be able to analyse the historical data on Olympic sports participation and performance to identify trends and patterns.	I can access my account / dashboard	Medium	Mugila
Coach	Login	USN-2	As an Olympic coach, I want to access data-driven insights on sports participation and performance across different Olympic events,	I can access my account / dashboard	High	Varshini
Analyst	Login	USN-3	As a sports analyst, I want to be able to compare the performance of different countries in Olympic sports over the years.	I can access my account / dashboard	High	Harini
Sports enthusiast	Login	USN-4	As a sports enthusiast, I want to explore data-driven insights on Olympic sports participation and performance, including records, medals, and historical trends.	I can access my account / dashboard	Medium	Varshini
Researcher	Login	USN-5	As a researcher, I want to have access to comprehensive data and insights on Olympic sports participation and performance.	I can access my account / dashboard	Medium	Mugila
Sports Association	Login	USN-6	As a national sports association, I want to analyse the participation rates and performance of athletes in different Olympic sports.	I can receive confirmation email & click confirm	High	Varshini
Event Organizer	Login	USN-7	As a sports event organizer, I want to analyse the historical data on Olympic sports participation and performance.	I can receive confirmation email & click confirm	High	Mugila
Marketing Professional	Login	USN-8	As a sports marketing professional, I want to leverage data-driven insights on Olympic sports participation and performance to identify potential sponsorship opportunities.	I can receive confirmation email & click confirm	High	Harini
Sports Governing Body	Login	USN-9	As a sports governing body, I want to monitor and evaluate the impact of various initiatives aimed at promoting sports participation and performance in the Olympics.	I can register & access the dashboard	Very High	Harini

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Equipment Manufacturer	Login	USN-10	As a sports equipment manufacturer, I want to analyse data on Olympic sports participation and performance to identify trends and opportunities for innovation, allowing me to develop and market products that cater to the needs of athletes.	I can register & access the dashboard	High	Mugila
Administrator	Login & Dashboard	ADM-01	As a administrator, we want to analyse the data on Olympic participation and performance to get insights and provide visual representation to the user by creating dashboard.	I can register, access the dashboard & modify the dashboard	Very High	Mugila Varshini Harini
Customer (Web user)	Register, Login & Dashboard	USC-01	As a user, I want to see the dashboard and get insights from the dashboard.	Able to view the dashboard	Medium	Harini