

Project Design Phase-II Data Flow Diagram & User Stories

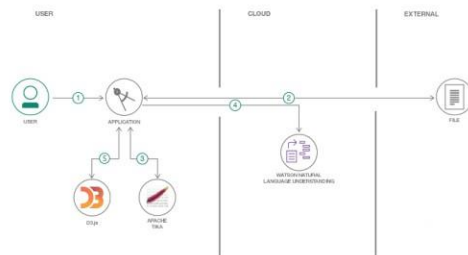
Date	17 October 2023
Team ID	NM2023TMID07514
Project Name	Data-Driven Insights on Olympic Sports Participation and Performance
Maximum Marks	4 Marks

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.

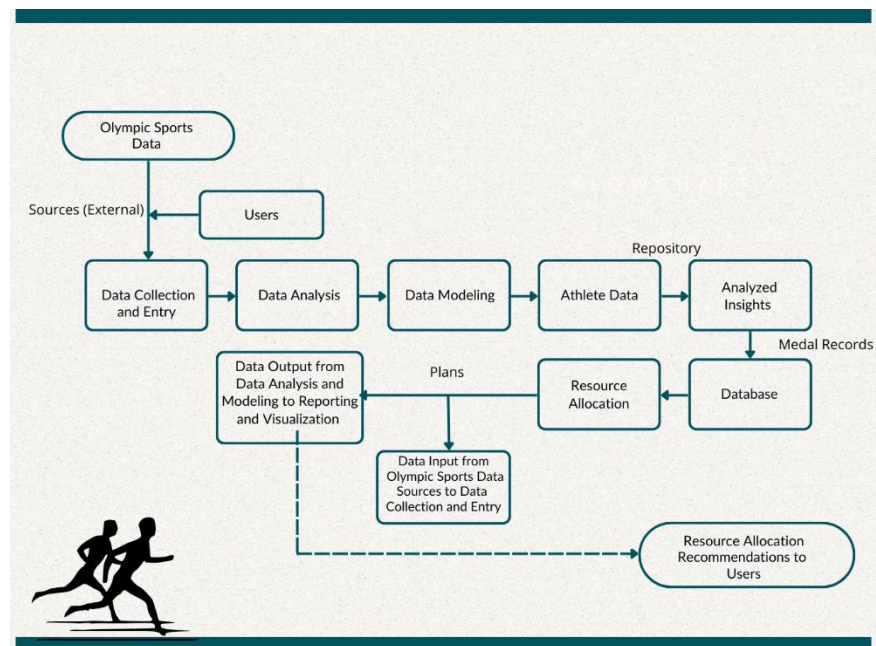
Example: [\(Simplified\)](#)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

DFD Level 0 (Industry Standard)



User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Athlete Data Entry	Data Entry	USN-1	As a data analyst, I can input athlete data, including name, age, and performance metrics.	I should be able to add, edit, or delete athlete information, and the data should be stored accurately for analysis.	High	Sprint-1
Data Analysis Dashboard	Data Analysis	USN-2	As a sports manager, I want a data analysis dashboard that displays historical performance trends and insights for our athletes.	The dashboard should provide visual representations of key performance metrics, allowing for data-driven decision-making.	High	Sprint-2
Predictive Modeling	Predictive Modelling	USN-3	As a coach, I can access predictive modeling tools to forecast athlete performance based on historical data.	: The model should accurately predict future performance, aiding in training program design.	Medium	Sprint-3
Resource Allocation Recommendations:	Resource Allocation	USN-4	As an Olympic committee member, I want the system to provide recommendations for resource allocation, such as funding and coaching, based on athlete performance data.	The recommendations should be data-driven, considering both individual and team needs.	High	Sprint-2
Olympic Medal Analysis	Medal Analysis	USN-5	As a sports analyst, I want to analyze Olympic medal records to identify factors contributing to our country's success.	The system should allow for in-depth analysis of medal records and highlight trends or strategies.	Medium	Sprint-3
Data Visualization	Data Virtualization	USN-6	As a data analyst, I need the ability to create custom data visualizations for athlete performance and Olympic trends.	The tool should offer various visualization options and be user-friendly for creating informative charts and graphs.	High	Sprint-2
Compliance Reporting	Compliance Reporting	USN-7	As a compliance officer, I want the system to generate compliance reports that demonstrate adherence to regulatory requirements.	The system should generate accurate and comprehensive compliance reports on a regular basis.	Medium	Sprint-4

Athlete Registration	Athlete Onboarding	USN-8	As a new athlete, I can register for the system by providing my personal information, including name, age, and sports discipline.	Upon registration, I should receive a unique athlete ID and access to my performance data.	High	Sprint-1
Coach Registration	Coach Onboarding	USN-9	As a coach, I can register for the system by providing my coaching credentials and specialization.	: Registration should grant me access to athlete performance data and analytical tools.	Medium	Sprint-2
. Committee Member Registration	Committee Onboarding	USN-10	As a coach, I can register for the system by providing my coaching credentials and specialization.	Registration should grant me access to athlete performance data and analytical tools.	Medium	Sprint-2
Analyst Registration:	Data Analyst Onboarding	USN-11	As a data analyst, I can register with my analytical credentials to access the data analysis tools	Registration should grant access to data analysis and visualization features.	Medium	Sprint-3
. Admin Registration:	Admin Onboarding	USN-12	: As an administrator, I can register to manage user roles and access control within the system.	Registration should provide admin privileges for user management.	High	Sprint-4