Project Design Phase-I
Proposed Solution

Date	05 May 2023
Team ID	NM2023TMID21199
Project Name	Data-Driven insights on Olympic Sports Participation and Performance
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The goal of this project is to use data analysis and visualisation methods to learn more about the origins, development, and performance of the Olympic Games. The research specifically intends to answer issues like which nations have historically excelled in particular sports, how the economic impact of the Olympics has evolved over time, and which events are the most well-liked by spectators. The project aims to give stakeholders a greater knowledge of the elements influencing success in the Olympic Games, the trends and patterns that have developed through time, and the opportunities and difficulties the Games will face in the future by addressing these concerns. The project's overarching objective is to give stakeholders the information they require they need to make data-driven decisions and drive the continued success and growth of the Olympic Games
2.	Idea / Solution description	The Olympic Games dataset will be subjected to data analysis and visualisation using IBM Cognos Analytics and IBM DB2, according to the project's solution description. Before loading the data into IBM DB2 for storage and processing, the project entails extracting and cleaning it to verify its accuracy and completeness. Next, a thorough dashboard that presents the data in an interactive and visually appealing manner is created using IBM Cognos Analytics. Stakeholders can quickly and easily obtain the most pertinent information, such as past results of nations in particular sports, using the dashboard. Users can dive down into particular data points or alter filters to investigate various facets of the data thanks to the dashboard's flexibility.
3.	Novelty / Uniqueness	Creating cutting-edge visualisation techniques that enable interactive data exploration, such as dynamic infographics and interactive heat maps. In order to more readily identify and

		address areas for development, this can give the Olympics committee and trainers a more detailed and accessible snapshot of athlete performance.
4.	Social Impact / Customer Satisfaction	This initiative has a huge social influence because it offers insightful information about the development of the Olympic Games. The project encourages transparency and accountability in the management and governance of the Games by analysing and visualising the data, giving stakeholders a greater understanding of the variables that affect performance and the trends that have developed over time. This data can be used to guide investments and policy decisions that support the expansion and success of the Games as well as to pinpoint areas that require improvement to keep the Games open, inclusive, and fair for all competitors and spectators.Additionally, the project's findings can be applied to increase public interest in and enjoyment of the Olympic Games, fostering a sense of belonging and shared purpose among participants and supporters. Overall, this project has a huge societal influence since it encourages greater comprehension, openness, and participation in one of the most recognisable and prominent sporting events in the world.
5.	Business Model (Revenue Model)	This project's business model is offering data analysis and visualisation services to participants in the Olympic Games sector. The National Olympic Committees, commercial sponsors, media outlets, and other groups participating in the organising and administration of the Games are included in this. A combination of subscription-based and project-based pricing methods are used to generate money for the project. Stakeholders, for instance, have access to the most recent insights and data on the Games by subscribing to the dashboard on a monthly or annual basis. The project can also make money by developing data analysis and visualisation initiatives that are specifically catered to the requirements of different stakeholders. The project provides a top-notch, dependable, and scalable solution that satisfies the data analysis and visualisation requirements of stakeholders across the Olympic Games sector by utilising IBM Cognos Analytics and IBM DB2. In general, the project's business strategy is centred on delivering value to stakeholders through insights and analytics that facilitate better

		decision-making and, ultimately, fuel the Olympic Games' continuous expansion and success.
6.	Scalability of the Solution	Scalability of the project is a key benefit as it makes use of IBM DB2 and IBM Cognos Analytics to deliver a highly scalable and dependable solution. Given the huge and varied range of data points available for analysis at the Olympic Games, the project's ability to handle large amounts of data is essential. The database management system, IBM DB2, offers a very dependable and secure solution that can expand with the project as it goes along. A highly scalable platform for data analysis and visualisation is also offered by IBM Cognos Analytics, enabling stakeholders to access insights and analytics at scale. The underlying technical infrastructure may be scaled up to meet the additional demand as the project expands and new stakeholders sign up.This scalability guarantees that the project will be able to satisfy the changing needs of industry stakeholders and that it will be able to offer insightful analytics even as the Games themselves continue to change over time.