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

Date	06 May 2023
Team ID	NM2023TMID20397
Project Name	Estimation and prediction of hospitalization and
	medical care cost

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Collection	Demographics, training, and performance of individual athletes, the rules, format, and history of each Olympic event, the economic, social, and cultural factors that impact sports participation and performance in different countries, past Olympic games, including participation and performance data, to identify patterns and trends over time.
FR-2	Data Processing	The system should be able to process the collected data and generate predictions for predictions, performance analysis, demographic analysis, training and preparation analysis, economic analysis, and social and cultural analysis. By using data-driven insights, stakeholders can make informed decisions to improve participation and performance in Olympic sports.
FR-3	Visualization	The system should be able to provide easy-tounderstand visualizations of the predictions, including graphs, charts, and other visual aids.
FR-4	Inteface with web	The visualizations are integrated with web application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The usability of data-driven insights on Olympic sports participation and performance is significant. These insights can provide stakeholders with valuable information and recommendations for improving participation and performance in Olympic sports. Coaches and athletes can use these insights to make informed decisions about training, preparation, and competition strategies. Governments and sports organizations can use these insights to allocate resources effectively, improve facilities, and promote sports participation. Sponsors and advertisers can use these insights to identify athletes and events with the
		greatest potential for exposure and revenue generation. Overall, data-driven insights on Olympic

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		sports participation and performance can help to
		promote sports excellence and increase global
NED 2	Somity	interest in the Olympic Games.
NFR-2	Security	Olympic sports participation and performance, data encryption should be implemented, access control
		should be restricted to authorized users, backups and
		a disaster recovery plan should be in place, and
		compliance with regulations such as GDPR and
		HIPAA should be ensured. These measures are
		important to protect the data and ensure its privacy
		and security.
NFR-3	Reliability	The reliability of data-driven insights on Olympic
11110	Renasmey	sports participation and performance depends on the
		quality and accuracy of the data used to generate the
		insights, as well as the validity of the methods and
		models used for analysis. If the data is incomplete,
		inconsistent, or biased, the insights may be
		inaccurate or misleading. Therefore, it is essential to
		ensure the data used for analysis is of high quality
		and to use appropriate methods and models to
		generate reliable insights. Additionally, insights are
		only as reliable as the data available, so updating
		data regularly can help ensure ongoing reliability.
NFR-4	Performance	The performance of data-driven insights on Olympic
		sports participation and performance depends on the
		quality of the data collected, the accuracy of the
		analysis, and the relevance of the insights generated.
		If the data is accurate and relevant, and the analysis
		is conducted appropriately, data-driven insights can
		help stakeholders make informed decisions to
		improve participation and performance in Olympic sports.
NFR-5	Availability	The availability of data-driven insights on Olympic
	, and the same of	sports participation and performance depends on the
		availability and quality of the data, as well as the
		data analytics tools and expertise used to process the
		data. While some data may be publicly available,
		other data may be proprietary or difficult to obtain.
		Additionally, generating meaningful insights requires
		expertise in data analytics and sports performance
		analysis. However, as more data becomes available
		and data analytics tools continue to evolve, the
		potential for data-driven insights on Olympic sports
		participation and performance will continue to
		increase.
NFR-6	Scalability	Scalability of data-driven insights on Olympic sports
		participation and performance depends on factors
		such as data management, processing power,
		expertise, and flexibility. To ensure scalability, the
		system must be able to handle large and diverse data
		sets, perform complex analytics tasks, involve skilled
		analysts, and be adaptable to changing requirements
		and technologies.