DAMG6210 – Database Management & Database Design

P1. Topic & Objectives

Title:- Sports Information & Analytics System

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Group- 12

Team Members:

Deepak Kumar
Harsh Hemal Sangani
Manish Dinesh Kumar Vanitha
Mansi Raturi

Northeastern University

Overview

The realm of sports is increasingly data-driven, with a growing emphasis on analytics to enhance performance, fan engagement, and operational efficiency. Modern sports organizations, ranging from local clubs to international leagues, generate vast amounts of data including athlete performance metrics, team statistics, event information, and fan interactions. However, the challenge lies in effectively managing, analyzing, and utilizing this data to make informed decisions. A comprehensive and sophisticated *Sports Information & Analytics System (SIAS)* is essential to address these needs.

Purpose

The primary purpose of *SIAS* is to create a centralized, efficient, and user-friendly system for managing various sports-related data. This includes athlete and team performance tracking, event scheduling, injury management, fan engagement analysis, and financial oversight. The system aims to provide actionable insights for coaches, athletes, sports analysts, and managers, enhancing the overall strategic and operational capabilities within the sports sector.

Scope

The scope of *SIAS* encompasses several key areas:

◊ *Data Management:* Robust handling of diverse data types including athlete statistics, team records, event details, and financial information.
◊ *User Interaction:* Interfaces for different user groups such as athletes, coaches, sports analysts, and administrators.
◊ *Analytics and Reporting:* Advanced data analysis capabilities to extract meaningful insights and generate comprehensive reports.
◊ *Security and Privacy:* Ensuring the integrity and confidentiality of sensitive data.
◊ *Scalability and Performance:* Designed to efficiently handle growing data volumes and user demands.
◊ *Compliance and Standards:* Adherence to relevant data management and sports industry standards.

GITHUB URL: https://github.com/northeasternUniversityKumarDeepak/DMAG6210_GROUP_12

--Thank You---