

Chapter 2

REVIEW OF RELATED LITERATURE AND STUDIES

Review of Related Literature

Foreign Literature

Sports Management System

According to Bhujel, A. K., Subba, A., Lamichaney, B., & Biswakarma, S. (2021), Sports Management System (SMS) is designed to efficiently handle multiple sports activities and streamline the selection process for students into colleges. By leveraging a web-based platform, the system aims to reduce the time required for users compared to manual processes, offering a quick and convenient solution for managing various sports activities. The SMS functions as a comprehensive web application, providing students with access to information about different games, details about colleges, and schedules of upcoming events. Through the system, coordinators can input all relevant data, enabling students to easily view and register for games of interest.

Online System for Management of Sports Activities in India

Kumar, G., and Verma, H. (2021) proposed a web-based application to manage sports activities in schools and colleges across India. The system aims to address the lack of a centralized platform for students to discover and register for sports events at various levels inter- college,

state, national. It intends to be a one-stop solution for students, offering features like viewing ongoing and upcoming events, registering for participation, and accessing relevant logistics like gym facilities. This online platform can be integrated with existing college portals for wider accessibility and aims to improve awareness and participation in sports by creating a well-organized and user-friendly system.

Athlete monitoring practices in elite sport in the United Kingdom

The study of Neupert, E., et. al. (2022) underscores the prevalent use of custom athlete monitoring systems (AMS) in elite sports in the UK, often at the expense of established and validated methods. It reveals a concerning lack of evidence-based implementation and clear rationale behind the choice of AMS among practitioners. Additionally, issues such as uncertainty regarding the effectiveness of single-item athlete self-report measures, deviations from best-practice data analysis methods, low athlete adherence, and fragmented feedback processes are highlighted. Moving forward, there is a crucial need to address these challenges to ensure that athlete monitoring remains beneficial and practical for stakeholders while also improving the overall athlete experience and performance in elite sports.

Local Literature

Utilization of e-Portfolios in Teacher Education Institutions of Higher Education in Central Visayas, Philippines

The study of Boholano, H., et. al. (2022) focused on the use of e-portfolios in teacher education institutions in Central Visayas, Philippines, particularly during the COVID-19 pandemic. A central finding of the study is that e-portfolios allow students to upload both formative and summative assessments, which document their learning achievements. This system not only records student proficiency but also helps confirm their skills, boosting their self-confidence and enhancing their educational experience. The study emphasizes the role of e-portfolios in facilitating effective assessment and learning, even in the context of restricted face-to-face interactions during the health crisis.

TIP-QC Athletes Management Information System

According to Catoera, R. C. and Renen, G. C. (2019), their study on the "TIP- QC Athletes Management Information System" aimed to come up with a system that would computerize all transaction on the Sports Center to effectively manage all athlete's records, organize and centralize the freshman's students' profile in meeting the needs of the institution in the field of sports. The development strategies used in the

project analysis, design and development include a thorough analysis of both the existing and the first prototype of the proposed system. System Development Life Cycle (SAD), as a method for compressing the analysis, design, build, implementation phases into a series of short, iterative development cycles was used in the development of the system. The iteration of the said stages in the development allows for effectiveness and self-correction. This procedure helped in the analysis, design and development, coding and testing, evaluation, and implementation of the software.

Student Profiling System for Bagong Silang High School

According to Remoto, J.J. et. al (2020), the development of an athlete profiling system at Bagong Silang High School provides an innovative solution to improve athlete record management by transitioning from traditional paper-based processes to a secure digital platform. By centralizing athlete data into a unified database, the system minimizes risks of data loss or unauthorized access while ensuring data integrity and accessibility. It includes key features such as adding, saving, deleting, editing, and searching athlete profiles, empowering coaches and administrators to handle records efficiently. The ability to generate printed athlete profiles simplifies administrative tasks, enhancing convenience for stakeholders and improving the overall efficiency of operations at Bagong Silang High School.

Review of Related Studies

Foreign Studies

District-Level Sports Management System: A comprehensive digital solution

According to Chakole, S., et. al (2020), a systematic approach to sports management is essential to address various challenges faced in current systems, particularly those based on offline methods. These challenges include manual paperwork, offline registration, limited tournament management capabilities, lack of transaction security, and insufficient transparency in evaluation processes. These inefficiencies often lead to issues such as students being excluded from participation due to incomplete or misplaced records. Building upon their research, the District-Level Sports Management System is proposed as a comprehensive digital solution that caters to the needs of students, organizers, and district sports committees. The primary goal is to create a platform that facilitates streamlined and transparent operations for managing sports competitions at district and taluka levels. The system emphasizes key functionalities such as online registration, multi-tournament management, and secure, transparent data handling.

Sports Event Management System

According to the study by Kubal K. et. al (2021), the current methods for managing sports event registration and information are often inefficient and time-consuming. Their study proposes an online portal system to streamline the registration process and manage event-related information more effectively. The system includes a user interface for event registration, a registration module to collect user data, and a data management module for storing and organizing this data. Additionally, the system processes the data through an event module to generate event-related information such as schedules, results, and participant lists, all accessible via the user interface. The system also incorporates a validation module to ensure the accuracy of user information, a player information module, an event results module for real-time access, and a recommendation module for suggesting suitable events. The scalability and access module ensures that large-scale participation is supported, providing easy access from any location, thus making the system a highly efficient tool for educational institutions.

Online Sports Events Management System

According to Solanki, Y. et. al (2022), the implementation of an Online Sports Events Management System marks a significant stride toward modernizing sports administration. This study underscores the necessity of transitioning from traditional manual registration processes

to an efficient online portal. Colleges and schools can address prevalent challenges such as data loss, time consumption, and tedious procedures by leveraging technology. The system's user-friendly interface facilitates seamless registration for numerous participants simultaneously, enhancing accessibility and convenience. Moreover, the system ensures swift dissemination of results, enabling stakeholders to access information at their convenience, anytime and anywhere. Embracing an online sports management system streamlines operations and aligns institutions with contemporary management trends. Thus, it emerges as a paramount solution for optimizing sports event management in educational institutions, promising improved efficiency and enhanced user experience.

Local Studies

Extent of utilization of paperless technology: basis for a proposed intervention program

According to the study of Fredeluces, S. M. A., Garcia, N. P., & Quines, L. A. (2023), entitled Extent of utilization of paperless technology: Basis for a proposed intervention program focuses on assessing the extent of utilization of paperless technology among teachers in Bula District. The study surveyed 204 teachers from five schools: Bula Central Elementary School, Jose Divinagracia Elementary School, Dadiangas East Elementary School, Bula National School of

Fisheries, and Baluan National High School. The researchers utilized a descriptive evaluative research design and found that teachers perceived paperless technology as highly useful in grade management and test bank management, but moderately useful in user management. Despite this, the study highly recommended the use of paperless technology, highlighting its benefits in reducing teacher workload, saving money, protecting the environment, and improving the overall teaching and learning process.

Development and Implementation of a Document Management System for Ilocos Sur Polytechnic State College, Tagudin Campus

The study of Angala, D. et al. (2023), entitled the Development and Implementation of Document Management System for Ilocos Sur Polytechnic State College, Tagudin Campus, focuses on creating an efficient digital system for managing academic and administrative documents at the college. The study aims to address the challenges of manual document handling, which often leads to inefficiencies such as misplaced or lost files and time-consuming retrieval processes. By implementing a document management system (DMS), the researchers aim to streamline document storage, retrieval, and sharing, improving overall organizational efficiency. The system includes secure access controls, document versioning, and centralized storage, which facilitate faster and more

reliable document management. This study provides a practical solution for institutions looking to modernize their document handling processes.

Guidance Individual Profiling System

The study conducted by Corpuz et al. (2022), was to design and develop a Web-Based Guidance Individual Profiling System for Bohol Island State University Ballihan Campus, aiming to improve the manual processes involved in disseminating guidance forms, storing student record files, and retrieving documents. Significant inefficiencies were identified through personal interviews, observation of guidance office services, and document review, including manual dissemination of forms and storage in cabinets, leading to inconvenience, costliness, and document loss. In response, the researchers proposed a technological solution: the Web-Based Guidance Individual Profiling System, which introduces automation to streamline processes, offering online guidance forms for students and immediate document production in PDF format. This technology integration addresses current limitations and provides a scalable solution capable of adapting to future advancements, ultimately enhancing the speed, effectiveness, and organization of guidance services to meet the demands of students and guidance designation.

Synthesis

Table 1

Summary of related systems in comparison to the mentioned functionalities of Sports Events and Athletes Management System.

System/Study Name	Athlete Profiling Submission	Submission of Forms	Athlete Portfolio	Sports Registration Management	Sports event management	Athlete Performance Report	Provide Reporting Capabilities
1. Sports Management System	X	X	X	✓	✓	X	X
2. Online System for Management of Sports Activities in India	X	X	X	✓	✓	X	X
3. Athlete monitoring practices in elite sport in the United Kingdom	X	X	X	X	X	✓	X
4. Utilization of e-Portfolios in Teacher Education Institutions of Higher Education in Central Visayas, Philippines	X	X	✓	X	X	✓	X
5. TIP-QC Athletes Management Information System	✓	✓	X	X	X	X	X
6. Student Profiling System for Bagong Silang High School	✓	✓	X	X	X	X	X
7. District-Level Sports Management System: A comprehensive digital solution	✓	✓	X	✓	✓	X	X
8. Sports Event Management System	X	X	X	✓	X	X	X
9. Online Sports Events Management System	X	X	X	✓	X	X	X

10. Extent of utilization of paperless technology: basis for a proposed intervention program	X	✓	X	X	X	X	X
11. Development and Implementation of Document Management System for Ilocos Sur Polytechnic State College, Tagudin Campus	✓	✓	X	X	X	X	X
12. Guidance Individual Profiling System	✓	✓	X	X	X	X	X

Table 1 presents that among all the twelve related literature and studies, the relevant study of the proponent study is the *District-Level Sports Management System: A Comprehensive Digital Solution*. This study obtained the most number of the present functionalities to the proponent study entitled Sports Events and Athletes Management System.