Requirements_gathering

Project Overview

The project aims to streamline the manual process of managing sports events by transitioning it to an online platform. It utilizes Python Flask as the front end and SQL Server as the backend to create a user-friendly web interface for administrators, teachers, and students. The primary goal is to simplify the management of sports events within a college setting.

Modules:

1. Admin
   ● Admin Registration: Allows administrators to register their accounts with the necessary information, such as username and password.
   ● Admin Login:Provides a secure login system for admins to access the system, ensuring that only authorized personnel can make changes.
   ● Admin Manage Sports Activity: Enables admins to create, update, and delete sports activities and events, providing flexibility in managing the sports calendar.
   ● Admin Can Add Teachers: Allows admins to add teacher accounts to the system, assigning them specific sports activities.
   ● Admin Can Add Students: Permits admins to add student accounts to the system, facilitating student participation in sports events.

   ● View Manage Sports Field of Admin: Displays a list of sports activities and events managed by the admin, helping users stay informed.
   ● View Result and Attendance:Allows students to view their results and attendance for each program when submitted by teachers, providing transparency and accountability.

2. Teacher:
   ● Teacher Registration: Allows teachers to register with necessary information,   creating their accounts securely.
   ● Teacher Login: Provides a secure login system for teachers to access their accounts, ensuring data privacy.
   ● View Manage Sports Field of Admin:Displays a list of sports activities and events managed by the admin, helping teachers understand their responsibilities.

   ● View Registered Student Details:Provides teachers with access to information about the students in their classes, enhancing communication.

   ● Give Feedback Response: Enables teachers to provide feedback and responses to students, particularly if they get selected for sports events, enhancing student-teacher interaction.

- **Publish Result and Attendance:** Empowers teachers to submit and publish results and attendance for each program, ensuring timely communication of outcomes.

3. Student:
- **Student Registration:** Allows students to register with necessary personal information, ensuring a personalized experience.

- **Student Login:** Provides a secure login system for students to access their accounts, safeguarding their data.

- **Student Game Selection:** Enables students to select the sports games they want to participate in, giving them control over their sports involvement.

- **View Manage Sports Field of Admin:** Displays a list of sports activities and events managed by the admin, keeping students informed.

- **View Result and Attendance:** Allows students to view their results and attendance for each program when submitted by teachers, providing transparency and feedback.

Project aim to digitize sports event management within a college setting through the Admin, Teacher, and Student modules promises to enhance efficiency, transparency, and engagement. The system appears to offer a comprehensive solution for various stakeholders involved in sports management.

To what extend the system is proposed for?

Sports/Games Event Management: The system is primarily focused on digitizing the management of sports events held within the college. It covers various aspects, including event creation, student and teacher participation, attendance tracking, result publication, and feedback.

User Roles: The system supports multiple user roles, including Admin, Teacher, and Student, ensuring that each stakeholder has access to relevant features and information.

Administrative Functions: Admins can create, update, and delete sports activities and events, providing flexibility in managing the sports calendar. They can add teacher and student accounts, assign teachers to specific sports activities, and enable students to select the sports they want to participate in.

Teacher Functions:

Teachers can manage the sports activities they are responsible for, including adding students to their classes.They can take attendance, mark winners for each round, generate results based on multiple rounds, and provide feedback to students.
Teachers can also publish results and attendance, ensuring transparency and timely communication.

Student Functions:

Students can register, log in, and select the sports games they wish to participate in.They can view the list of sports activities and events, as well as their results and attendance, providing them with real-time updates on their participation.

Data Transparency The system offers transparency by allowing students to view their results and attendance, ensuring that they are aware of their performance.

Security:The system emphasizes security with secure login systems, authentication, and authorization mechanisms to protect user data and system integrity.

Feedback:Teachers can provide feedback to students, fostering communication and improvement in sports performance.

Scalability:While not explicitly mentioned, the system can potentially scale to accommodate a growing number of users, sports events, and data as the college expands.

The proposed system, as described, is intended to comprehensively digitize sports event management within a college environment. It aims to enhance efficiency, data accuracy, and communication among stakeholders while promoting student engagement in sports activities. The extent to which it can be implemented will depend on factors such as the project's budget, timeline, and specific college requirements.

Specify the Viewers/Public which is to be involved in the System?

The viewers and the public who are involved in the proposed e-sports and games management system can be categorized into three main user roles:

1. Admin
  ● Admin Registration: Allows administrators to register their accounts with the necessary information, such as username and password.
  ● Admin Login:Provides a secure login system for admins to access the system, ensuring that only authorized personnel can make changes.
  ● Admin Manage Sports Activity: Enables admins to create, update, and delete sports activities and events, providing flexibility in managing the sports calendar.
  ● Admin Can Add Teachers: Allows admins to add teacher accounts to the system, assigning them specific sports activities.
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  ● View Manage Sports Field of Admin: Displays a list of sports activities and events managed by the admin, helping users stay informed.
  ● View Result and Attendance:Allows students to view their results and attendance for each program when submitted by teachers, providing transparency and accountability.

2. Teacher:
  ● Teacher Registration: Allows teachers to register with necessary information,   creating their accounts securely.
  ● Teacher Login: Provides a secure login system for teachers to access their accounts, ensuring data privacy.
  ● View Manage Sports Field of Admin:Displays a list of sports activities and events managed by the admin, helping teachers understand their responsibilities.

  ● View Registered Student Details:Provides teachers with access to information about the students in their classes, enhancing communication.

  ● Give Feedback Response: Enables teachers to provide feedback and responses to students, particularly if they get selected for sports events, enhancing student-teacher interaction.

  ● Publish Result and Attendance: Empowers teachers to submit and publish results and attendance for each program, ensuring timely communication of outcomes.

3. Student:

- <u>Student Registration:</u>Allows students to register with necessary personal information, ensuring a personalized experience.

- <u>Student Login:</u> Provides a secure login system for students to access their accounts, safeguarding their data.

- <u>Student Game Selection</u>: Enables students to select the sports games they want to participate in, giving them control over their sports involvement.

- <u>View Manage Sports Field of Admin:</u> Displays a list of sports activities and events managed by the admin, keeping students informed.

- <u>View Result and Attendance</u>: Allows students to view their results and attendance for each program when submitted by teachers, providing transparency and feedback.

<u>Parents and Guardians:</u>
Parents or guardians of students may be interested in monitoring their children's participation in sports events and viewing their results and attendance.
While not directly involved in the system, they may inquire about their child's progress or access the system on their behalf.

<u>College Faculty and Staff:</u>
Faculty and staff members of the college may have access to the system to monitor sports events or support the administration of sports activities.
They may not actively participate in sports events but may need to view certain information within the system.

<u>Public Viewers:</u>
Depending on the system design and access controls, there may be limited public viewers who can access specific information, such as event schedules or results, without the need for login credentials.