



SOMAIYA
VIDYAVIHAR

K J Somaiya Institute of Technology

(Formerly known as K J Somaiya Institute of Engineering and Information Technology)
An Autonomous Institute Permanently Affiliated to University of Mumbai.



Online Scoreboard for SCORE

SY Mini Project Report

**Submitted in partial fulfillment of the requirements
of the subject Project Based Learning: Mini Project Lab-I**

by

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2023-24



CERTIFICATE



*This is to certify that the project entitled “**Online Scoreboard for SCORE**” is bonafide work **Vidhi Bhanushali, Niyati Desai, Himanshu Deshmukh and Deep Kawa** submitted as a mini project in the subject of Project Based Learning: Mini Project Lab-I, Computer Engineering for the academic year 2023-24.*

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DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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ACKNOWLEDGEMENT

Before presenting our SY project work entitled “**Online Scoreboard for SCORE**”, we would like to convey our sincere thanks to the people who guided us throughout the course for this project work.

First, we would like to express our sincere thanks to our beloved Principal **Dr. Vivek Sunnapwar** and Vice Principal **Dr. Sunita Patil** for providing various facilities to carry out this project.

We would like to express our immense gratitude towards our **Prof. Tejal Patil** for the constant encouragement, support, guidance, and mentoring at the ongoing stages of the project and report.

We would like to express our sincere thanks to our **H.O.D. Dr. Sarita Ambadekar**, for the encouragement, co-operation, and suggestions progressing stages of the report.

Finally, we would like to thank all the teaching and non-teaching staff of the college, and our friends, for their moral support rendered during the course of the reported work, and for their direct and indirect involvement in the completion of our report work, which made our endeavor fruitful.

Place: Sion, Mumbai-400022

Date:

ABSTRACT

This report provides an in-depth analysis of an innovative website designed to display real-time scores of inter-departmental football and cricket matches held within a college environment. The website is divided into two distinct components: the viewer's window and the scorer's window. The viewer's window serves as the primary interface for spectators and does not necessitate any sign-up or login requirements. It offers a seamless and user-friendly experience for users who wish to access live scores, match statistics, and game progress for both football and cricket matches. This public access feature ensures that the website is inclusive and open to all, enabling a wider audience to engage with and enjoy the live sporting events within the college. The scorer's window, on the other hand, offers an exclusive platform for designated scorers to update and maintain the real-time scores of ongoing matches. To access the scorer's window and perform score updates, scorers must first complete a login or sign-up process, ensuring that only authorized personnel can contribute to the accuracy of the live scorekeeping. The scorer's window provides an intuitive interface for scorers to input data efficiently, reducing the likelihood of errors and enhancing the quality of the information displayed on the viewer's window. This report delves into the architecture and functionality of the website, including its user interface, data collection, and validation processes. It also discusses the benefits of the viewer's window's open accessibility, as well as the importance of secure and controlled access to the scorer's window. Additionally, the report highlights the implications of this innovative tool for college sports, offering improved transparency and engagement opportunities for both players and spectators. In summary, this report sheds light on a unique web-based solution for real-time sports score tracking within a college, emphasizing its dual interface design, its advantages for spectators, and the secure and efficient scoring process. This website bridges the gap between college sports enthusiasts and live match scores, enhancing the overall sporting experience within the academic environment.

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LIST OF ABBREVIATION

Sr. No	Abbreviation	Description
1	OTT	Over The Top
2	KJSIT	K J Somaiya Institute of Technology
3	HTML	Hypertext Markup Language
4	CSS	Cascading Style Sheet
5	STOMP	Simple (or Streaming) Text Oriented Messaging Protocol
6	DOM	Document Object Model
7	RDBMS	Relational Database Management System
8	SQL	Structured Query Language

CHAPTER 1

INTRODUCTION

1.1 Problem Statement:

Design and develop a user friendly platform for users to upload and view scores for various events.

1.2 Aim and Objective:

- To simplify the process of scoring as well as providing general body an easy access to the scores.
- To save paper and manual labor which can be used elsewhere.
- To enable comparing previous year data.
- To eliminate any possibilities of interference in score board.

The Online Scoreboard for SCORE serves as the ultimate hub for sports enthusiasts within the college community, offering a real-time gateway to scores and updates for football and cricket matches. Managed by the dedicated Student Council, the platform's primary goal is to keep students connected, engaged, and on the edge of their seats during every thrilling moment of college sporting events. The website is a testament to the passion for sports within the community, aiming not only to showcase the heart-pounding action of games but also to foster camaraderie among students.

Understanding the significance of college sports, the platform is designed to be user-friendly, allowing students to effortlessly stay updated on live action without the need for complex sign-ups or logins. The emphasis is on accessibility, ensuring that all students, whether football fanatics or cricket connoisseurs, can easily enjoy the excitement. The magic of the platform extends beyond the surface, with diligent Student Council members operating the scorer's window to ensure the accuracy and integrity of real-time scores. A secure login process adds an extra layer of trust, ensuring that every score update is in capable hands.

Ultimately, the SCORE Online Scoreboard goes beyond a mere display of scores; it is a tool for building a stronger sense of community and camaraderie within the college. The website encourages students to be at the centre of the sports experience, promising an immersive and engaging platform that goes beyond the game itself. As the Student Council members work diligently behind the scenes, the platform invites students to get ready for a sports experience like never before and let the games begin.

CHAPTER 2

LITERATURE SURVEY

Live Tournament Scoreboard and Prediction by Shivganga Gavhane, Vishwanath Biradi, Keshav Bang, Vedant Patil and Laxmi Arsul:

This research paper delves into the intriguing world of sports prediction, with a particular focus on cricket and football. In recent times, cricket has ascended to become the second most popular sport globally, capturing the hearts of fans and bettors alike. The paper explores the multifaceted factors influencing match outcomes, including home advantage, team rankings, pitch conditions, and even the impact of key wicket events. The central goal of this paper is to develop a predictive model that can make real-time forecasts while matches are in progress, contributing to live predicted results. This research project also introduces the "Online Tournament Scoreboard," a platform designed to display live scores for various sports, promoting accessibility and engagement among sports enthusiasts. By considering a multitude of variables and harnessing data from diverse sources, this research aims to provide valuable insights into the dynamics of sports prediction and enhance the accuracy of match outcome forecasts. Whether its cricket or football, the quest for predicting winners and understanding the intricacies of sports outcomes takes centre stage in this comprehensive study.

Over-the-top sport: live streaming services, changing coverage rights markets and the growth of media sport portals by Brett Hutchins, Bo Li and David Rowe:

The article discusses the significant transformation brought about by the growth of Over-The-Top (OTT) Internet and mobile video streaming services in the distribution of global media sport. It highlights the impact of major players such as Tencent Video, and Amazon Prime Video in changing how live sports are consumed across various digital platforms. The article identifies six defining characteristics of OTT live sport streaming and examines three major services (Tencent Video, and Amazon Prime Video) operating globally. It argues that live sport streaming is reshaping the boundaries of broadcast media while continuing to maintain television's core principles, and that these platforms are establishing new norms for accessing and curating media sport, ultimately transforming the market for sports coverage rights and the circulation of live content.

CHAPTER 3

PROPOSED SYSTEM

The proposed system is a web-based solution created to facilitate the annual cultural event 'SCORE', which is organized by the Student Council of our college. This system is divided into two primary components: the Viewer's Window and the Scorer's Window.

In the Viewer's Window, any student of KJSIT College can access real-time scores of football and cricket matches, check the schedule of upcoming matches, and view scores from past matches. What's notable is that viewers don't need to log in; they can readily access this information. It's a user-friendly interface designed to keep the college community updated on the ongoing sports events.

In contrast, the Scorer's Window is designed for authorized scorers who must log in to access its functionalities. For scorers who don't have an account, there's an option to register. This section empowers scorers with various tools and capabilities. They can schedule matches for the 'SCORE' event, ensuring a structured and organized sports program. Furthermore, scorers can update scores of ongoing matches in real-time, ensuring that the audience and participants are always aware of the latest developments. The system also allows scorers to manage teams, including adding or removing team members, assigning captains and vice-captains, and making necessary updates to team compositions. Moreover, scorers can schedule tournaments involving multiple teams and their members, ensuring that the cultural event's sports component is well-coordinated and competitive.

In summary, this system serves as a comprehensive platform, offering real-time updates and management tools for the 'SCORE' event, benefiting both viewers who want to stay informed about the matches and scorers responsible for organizing and overseeing the sporting aspects of this annual cultural event at KJSIT College.

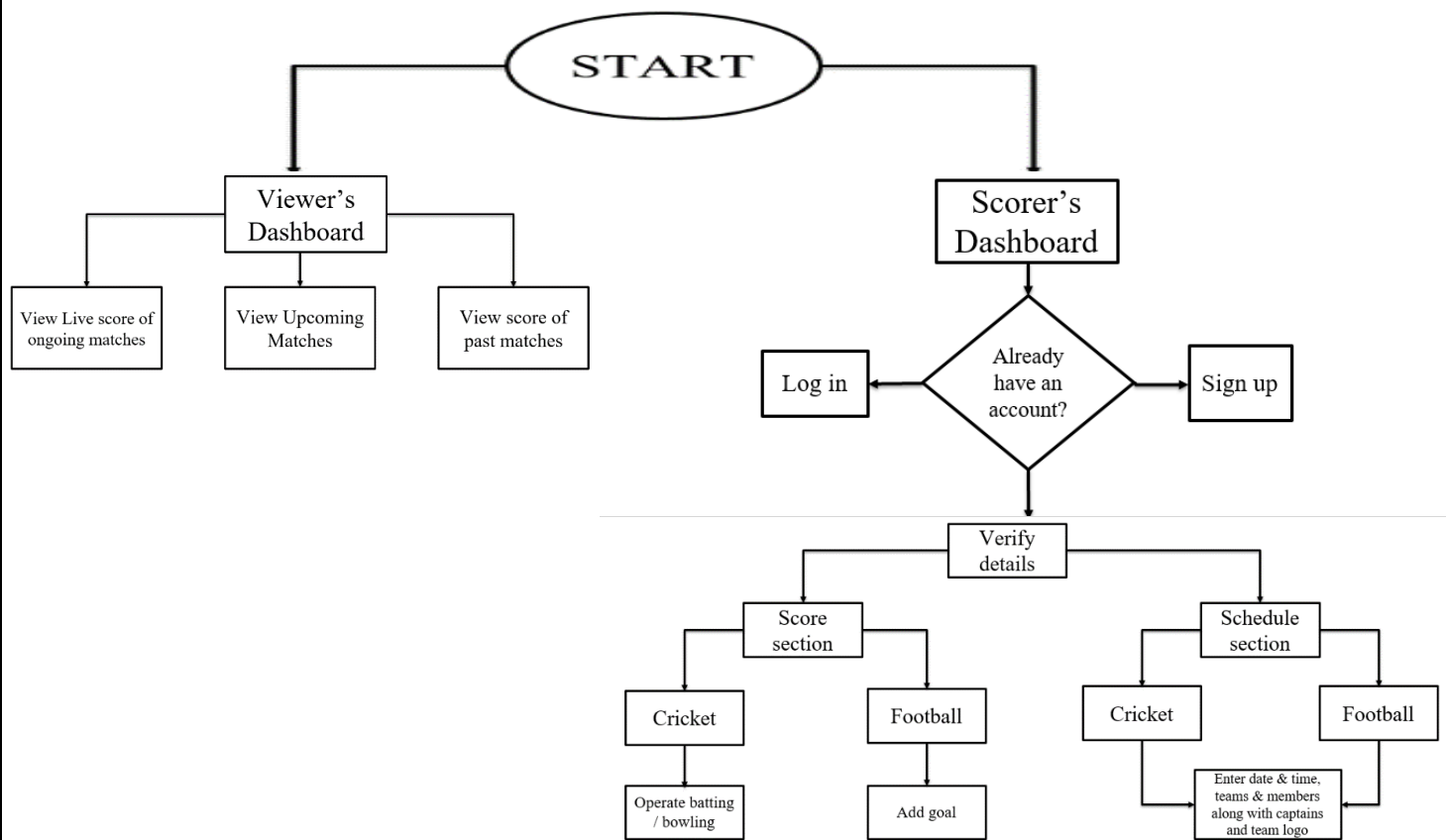


Fig 3.1

CHAPTER 4

ANALYSIS AND SYSTEM DESIGN

4.1 Analysis:

Analysis on Sports Broadcasting and Advertising of online scoring and live scoreboard websites reveals several key insights:

- Online scoring and live scoreboard websites have transformed fan behavior, leading viewers to prefer independent access to real-time data over traditional sports broadcasts. This shift necessitates sports broadcasters to integrate live scoring data to retain audience interest.
- These platforms have significantly increased viewer engagement by providing real-time statistics and scores, creating immersive opportunities for advertisers to connect with fans actively involved in the game.
- Advertisers can leverage user data from live scoring websites to create personalized and relevant campaigns based on current game situations, team preferences, and fan engagement, opening up new avenues for effective targeting.
- The integration of advertising within these platforms has created additional revenue streams for sports broadcasters and websites. Advertising partnerships, in-video ads, and sponsored content have become lucrative sources of income.
- To retain users, sports broadcasters and websites must strike a balance between engaging content and advertising, ensuring that ad delivery is seamless and non-disruptive to the fan experience.
- The rise of live scoreboard websites has intensified the competition for viewer attention. To differentiate themselves, sports broadcasters need to offer unique content, analysis, and commentary that sets them apart from online scoreboards.
- Measuring advertising effectiveness on these platforms requires nuanced metrics such as user interaction, click-through rates, and social sharing, reflecting the evolving landscape and changing viewer preference

4.2 System Design:

1. HTML5:

- Fifth version of Hypertext Markup Language.
- Introduces multimedia elements, improved form controls, canvas for graphics, and enhanced semantics.
- Enhances web experience with versatility and interactivity.

2. CSS with Bootstrap:

- CSS controls HTML document presentation.
- Bootstrap, a front-end framework, simplifies web development.
- Integration involves applying Bootstrap's CSS for consistent, mobile-friendly interfaces.
- Benefits: Time savings, design consistency, and access to ready-to-use components.

3. JavaScript with SockJS, STOMP, jQuery:

- JavaScript enhances web interactivity.
- SockJS facilitates WebSocket-like data transfer.
- STOMP aids client-server communication, often paired with SockJS.
- jQuery simplifies DOM manipulation and event handling.
- Integration improves real-time communication and enhances web application interactivity.

4. Java in Spring Boot Maven Application:

- Java used in a Spring Boot framework for streamlined development.
- Maven automates build processes and manages dependencies.
- Integration ensures efficient development, automatic configuration, and simplified dependency management.

5. MySQL Database:

- Widely used open-source relational database (RDBMS).
- Stores and retrieves data, supports SQL.
- Features: Scalability, reliability, compatibility with various programming languages.
- Commonly used in web development for data storage, crucial for dynamic websites and applications.

CHAPTER 5

IMPLEMENTATION

5.1 Viewer's Window:

The viewer's window serves as the primary interface for viewers and does not require any sign-up or login. It provides a streamlined and user-friendly experience for those seeking live scores, match statistics, and game progress for both football and cricket matches. This public access function guarantees that the website is inclusive and open to all, allowing a larger audience to connect with and enjoy the college's live athletic activities.

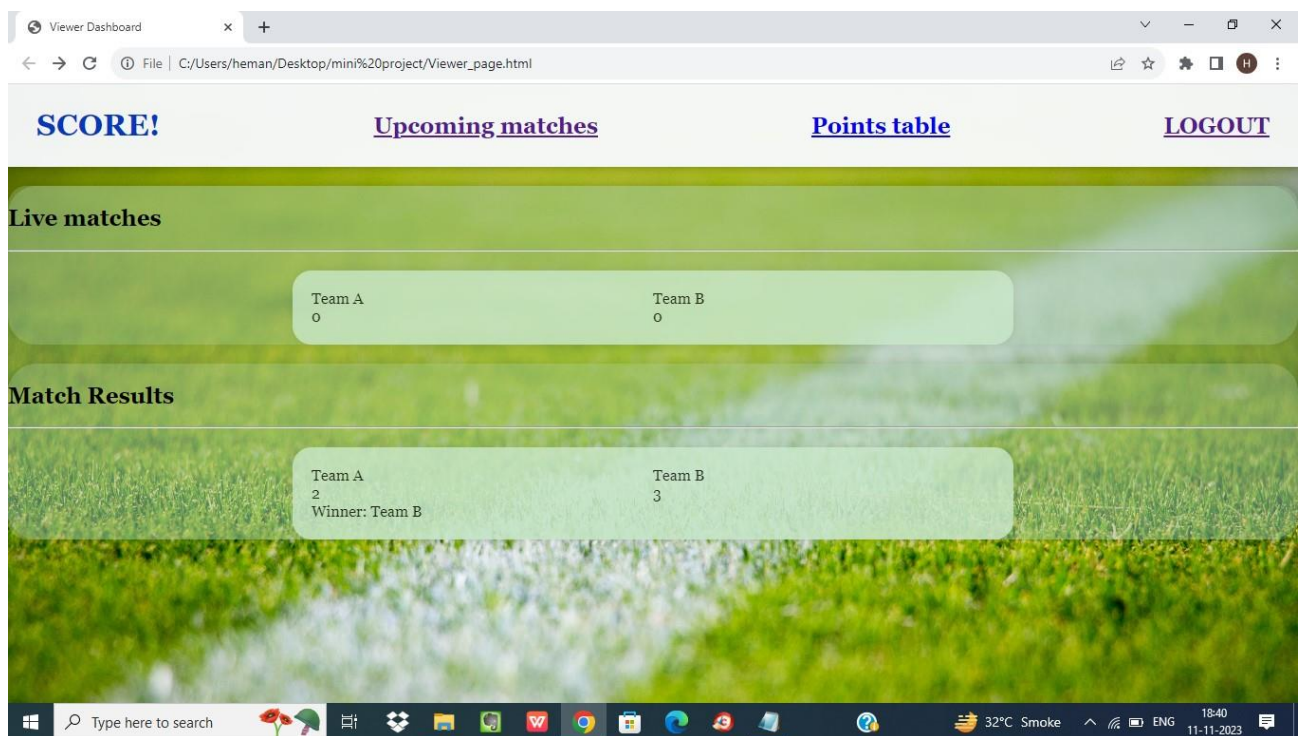


Fig 5.1.1

The image above is the home page of the viewer's window. It will display the schedule for upcoming matches, the results of recently played matches, and the points table.

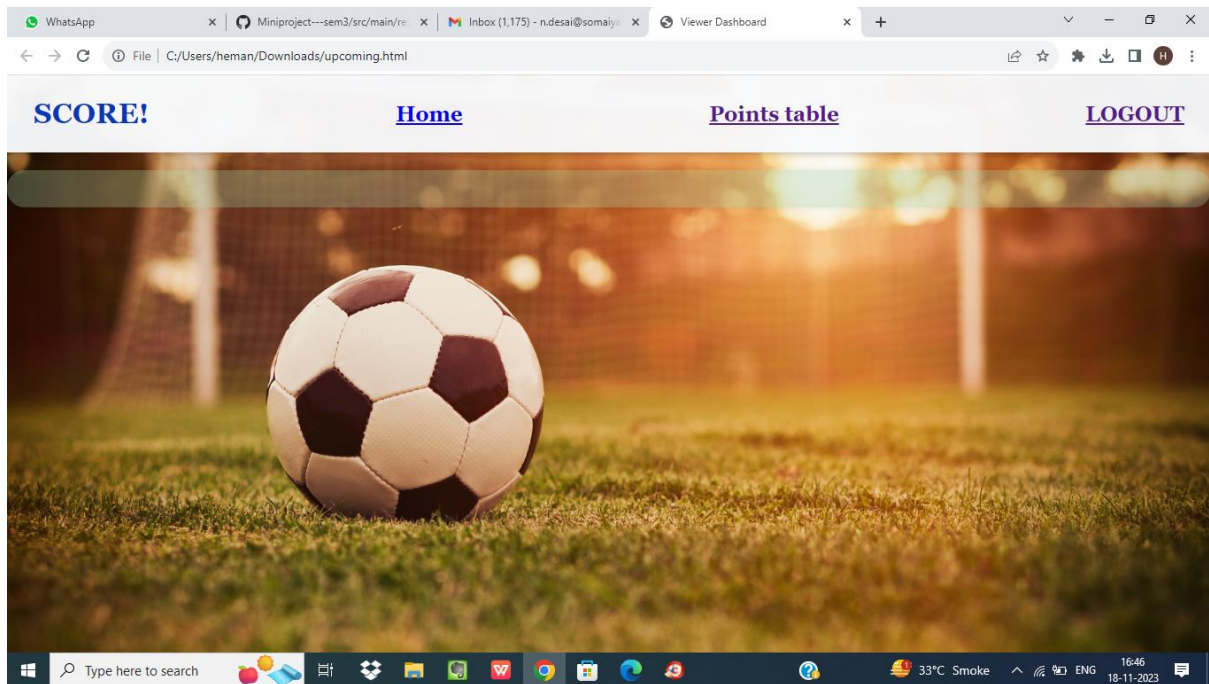


Fig 5.1.2

When we click on upcoming events, the above page appears. You can view the schedule for the upcoming matches that are going to be played.

2. Scorer's Window:

The Scorer's Window serves as an exclusive platform tailored for designated scorers, offering a specialized space to update and maintain real-time scores for ongoing matches. To access this platform and contribute to live scorekeeping, scorers are required to undergo a login or sign-up process, enforcing a secure environment limited to authorized personnel. This authentication ensures the accuracy and reliability of the live score updates. The scorer's window features an intuitive interface designed for efficient data input, reducing the risk of errors and elevating the overall quality of information displayed on the viewer's window. By streamlining the scoring process and maintaining a focus on accuracy, this dedicated platform enhances the real-time tracking of match scores, ultimately providing a more reliable and engaging experience for viewers and participants alike.

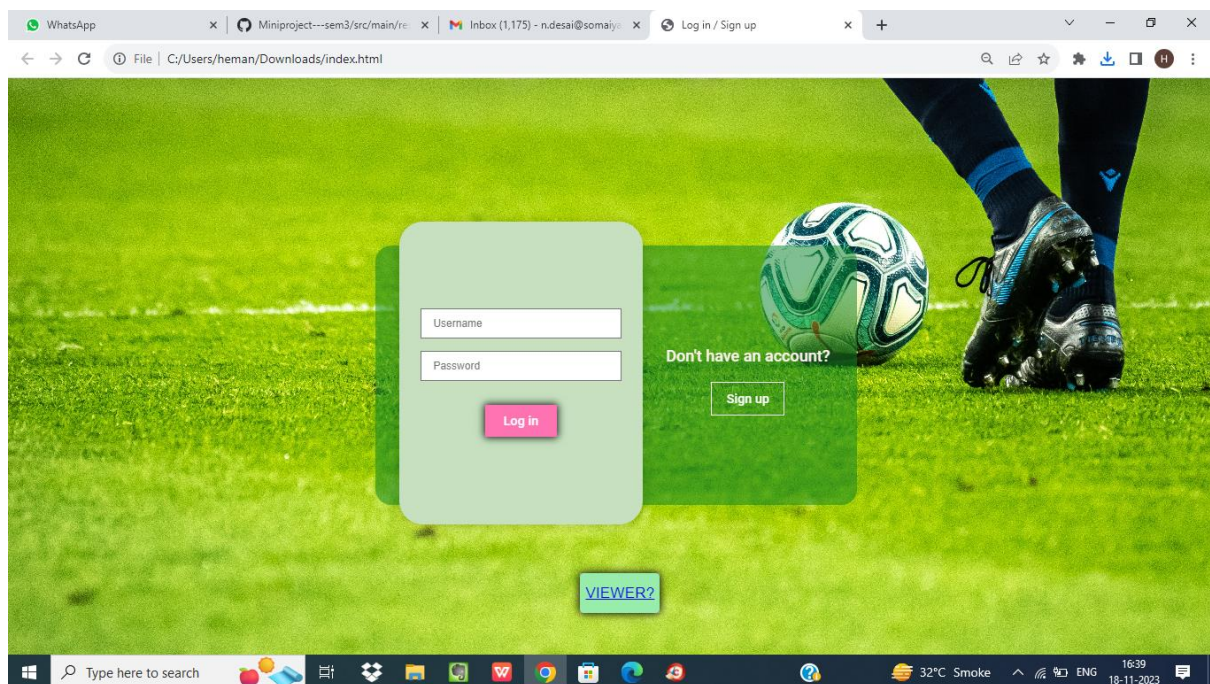


Fig 5.2.1

The scorer's window log-in page is displayed in the image above. Prior to anything else, the scorer must log in. The scorer can update scores for ongoing football and cricket matches after logging in. Scorer has the ability to adjust upcoming match schedules as well. There is also a viewer button which will lead the user to the viewer's side.

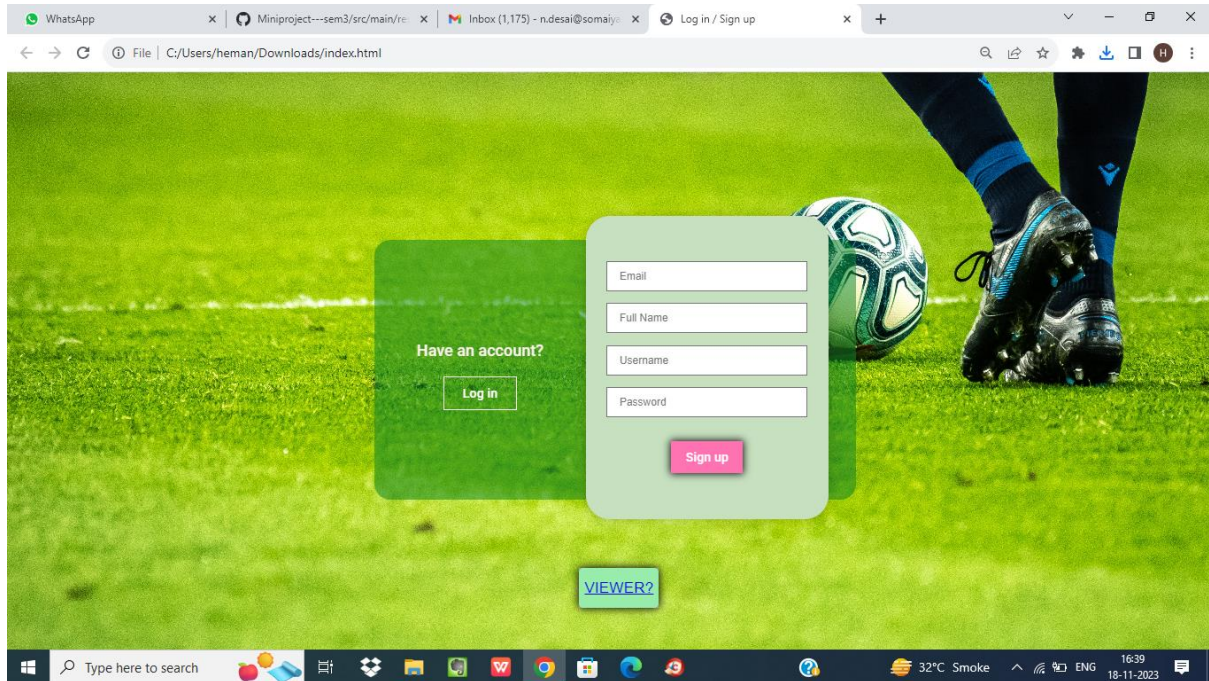


Fig 5.2.2

This is a screenshot of the page where you can sign up to be a scorer. Following registration, the scorer's entire profile will be kept in the database. The scorer can log in at any moment to carry out several tasks after registering.

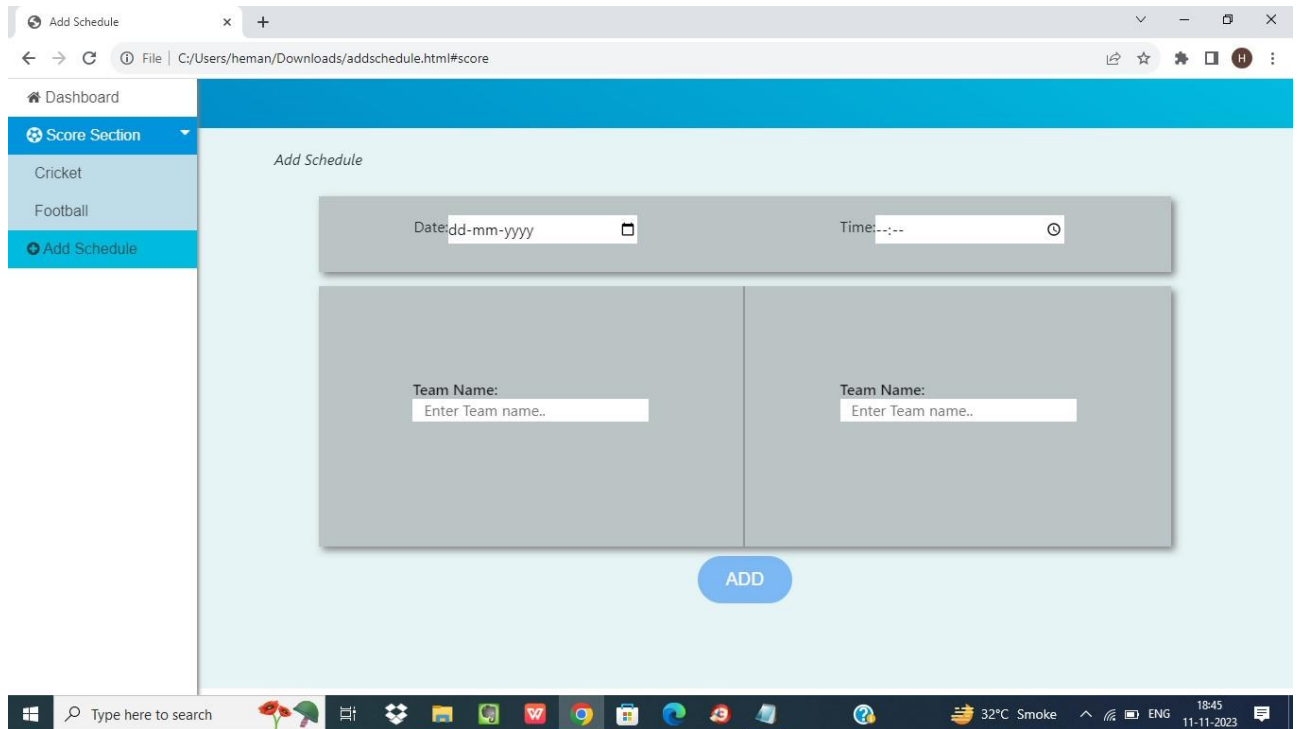


Fig 5.2.3

The add schedule page appears in the image above. The football and cricket schedules can be uploaded by the scorer. The scorer has to mention the team's name, the date, and the time of the match.

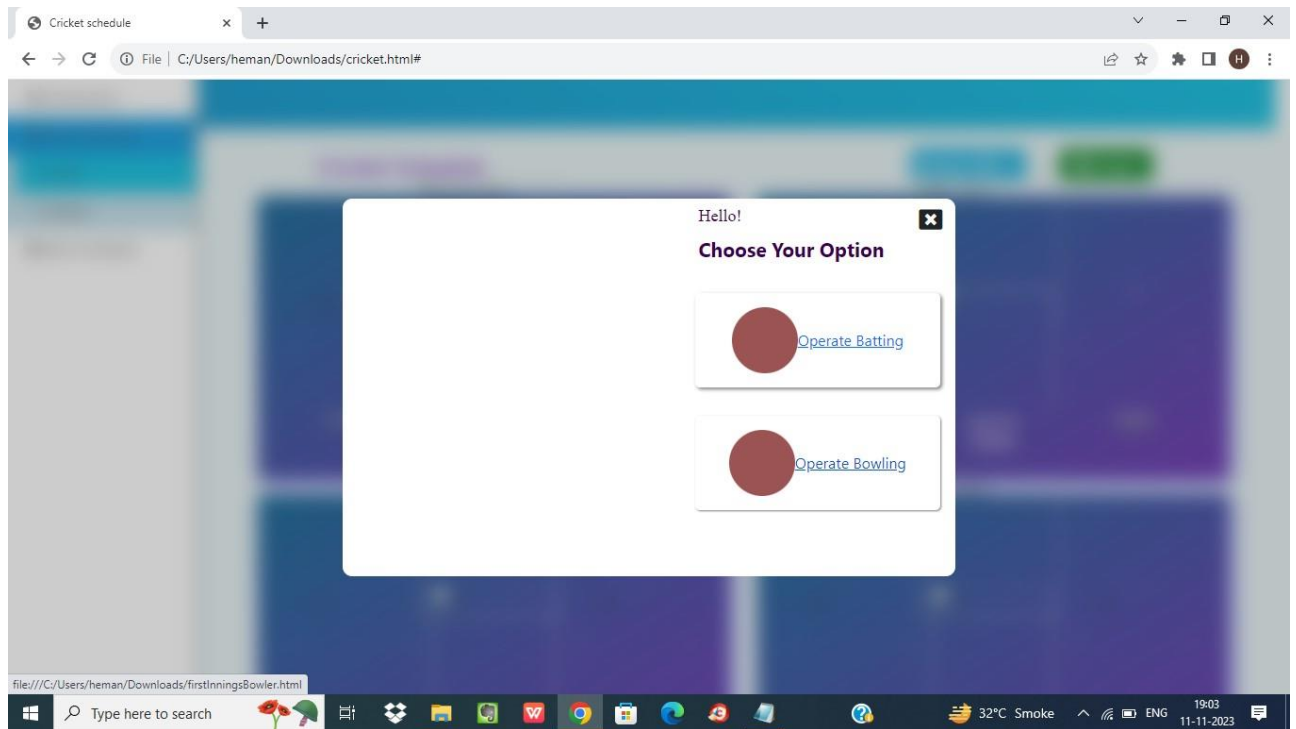


Fig 5.2.4

The page displayed above loads when we select cricket in the score section. Here, the scorer has to choose if he wants to proceed with the first innings' balling score or batting score.

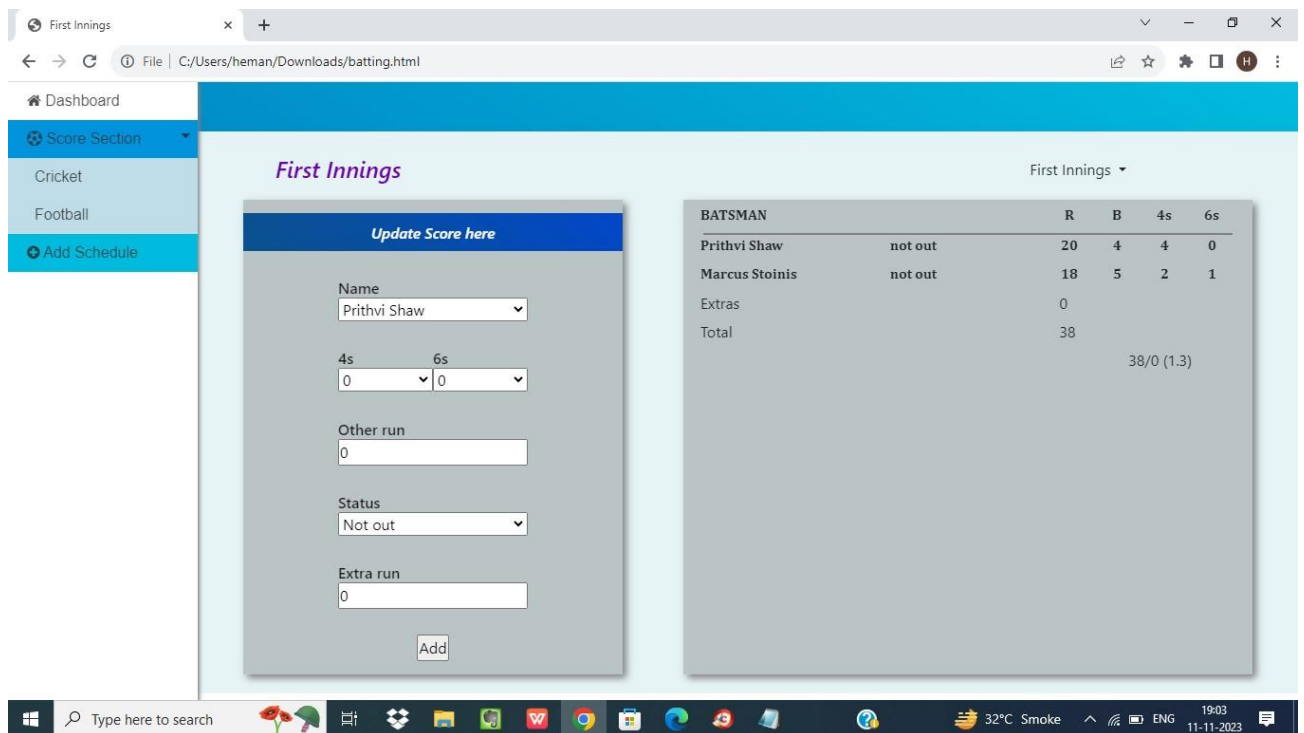


Fig 5.2.5

If the scorer decides to work on the batting first, the page mentioned above will show up. The scorer can list the player's name, add runs, fours, sixes, and other relevant information.

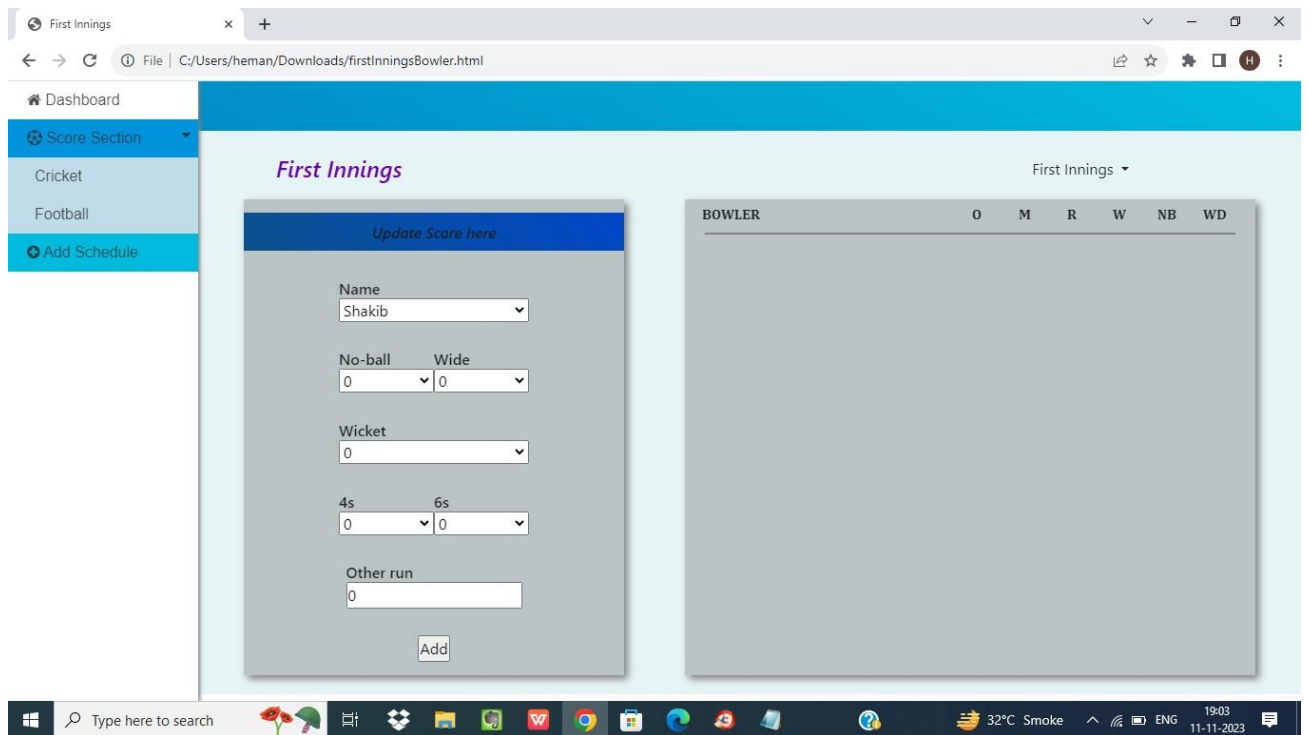


Fig 5.2.6

If the scorer decides to work on the bowling, the page mentioned above will show up. The scorer can include details about the bowler such as the player's name, runs, fours, sixes, wickets, wide balls, and no balls.

Second Innings

Update Score here

Name: Nitish Rana

4s: 0, 6s: 0

Other run: 0

Status: Not out

Extra run: 0

Add

BATSMAN		R	B	4s	6s
Morgan (c)	catch out	0	3	0	0
Shakib	not out	0	1	0	0
Nitish Rana	run out	25	11	3	2
Extras		1			
Total		26			
		26/2 (2.3)			

Fig 5.2.7

The page where the scorer manages the second inning batting score is seen above. The scorer can include the player's name, runs, fours, sixes, and other pertinent information, just like in the first inning.

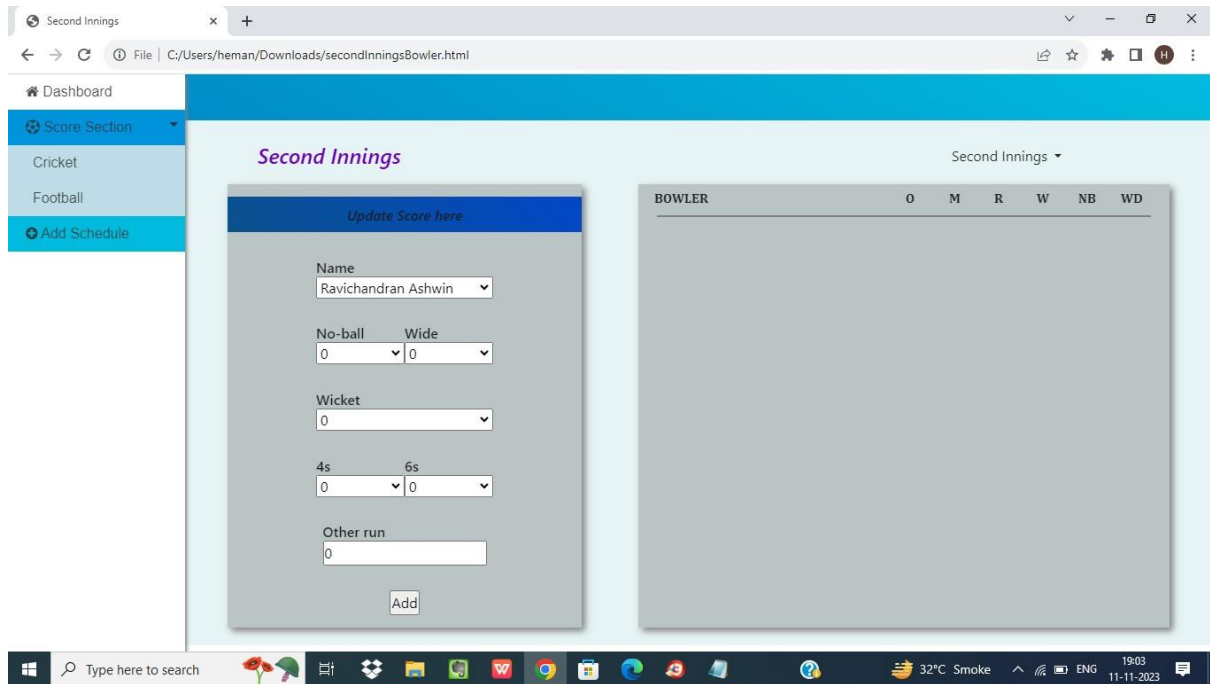


Fig 5.2.8

The page shown above loads during the second inning when the scorer chooses to work on bowling. In this section, the scorer can update the bowler's name, runs, wickets, fours, sixes, and other necessary information.

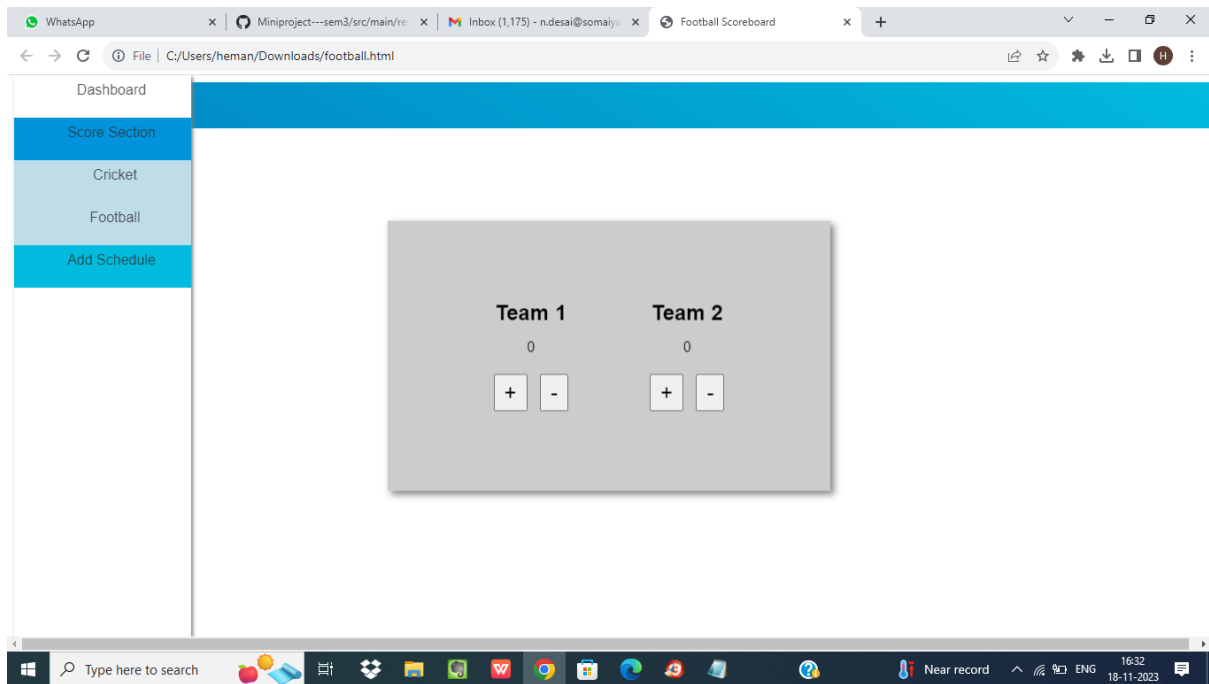


Fig 5.2.9

This page shown above loads when the scorer selects football in the score section in the side bar to update the scores of the ongoing football match. The scorer can update the score by clicking on the plus and minus buttons give below the scores of each team. On clicking the plus button there is an increment in the score of that particular team.

CHAPTER 6

RESULT AND ANALYSIS

In conclusion, the development and implementation of the 'SCORE' website by the Student Council of KJSIT College marks a significant advancement in enhancing the experience of both viewers and scorers during the annual cultural sports event. This website represents a commendable model of technological innovation that effectively caters to the dynamic requirements of the event while upholding user-friendliness and security.

The Viewer's Window stands as a cornerstone of accessibility, allowing every college student to effortlessly access real-time football and cricket scores. It provides a holistic view of ongoing matches, upcoming schedules, and past game scores, all without the need for user authentication. This inclusive approach has fostered engagement and a sense of community within the college's sports enthusiasts.

The Scorer's Window, in contrast, offers a comprehensive platform for authorized scorers, ensuring secure access and data integrity. Scorers can efficiently schedule matches, provide real-time score updates, manage teams, team members, captains, vice-captains, and organize tournaments involving multiple teams. This feature-rich interface not only simplifies event management but also guarantees the accuracy of live scorekeeping. Overall, the website successfully bridges the gap between sports enthusiasts and live match scores, ushering in a new era of digital sports engagement within the academic environment. It not only fulfills the immediate needs of the 'SCORE' initiative but also sets a promising precedent for future events and the evolving landscape of sports management and engagement in our college.

CHAPTER 7

CONCLUSION AND FUTURE SCOPE

The SCORE website, developed for the annual sports initiative by the Student Council of KJSIT College, stands as a commendable achievement in enhancing the experience for both viewers and scorers during the cultural event. Offering a seamless and secure platform, the Viewer's Window grants every student effortless access to real-time football and cricket scores, schedules, and past match results without requiring a login. This inclusivity fosters engagement within the sporting community. In contrast, the Scorer's Window provides authorized personnel with a feature-rich interface for secure match management, including scheduling, real-time score updates, and team administration. This comprehensive system ensures accurate live scorekeeping, simplifying event management. The website signifies the harmonious integration of technology and sports, representing a notable stride in the digital transformation of sports events within an academic setting. By bridging the gap between sports enthusiasts and live scores, it not only serves the immediate needs of 'SCORE' but also establishes a promising precedent for future events and the evolving landscape of sports management in the college, epitomizing a modern approach to sports technology.

The SCORE website has successfully established itself as the go-to platform for live real-time scores during the annual cultural event organized by the Student Council of KJSIT. As we move forward, there are several exciting avenues for future development that can further elevate the user experience and expand the platform's capabilities. Introduce interactive polls and quizzes related to the matches, enhancing user engagement during breaks and downtime. Incorporate push notifications for important match events, such as the start of a match, significant score updates, or the announcement of upcoming fixtures. Integrate advanced statistical tools for scorers to analyze player and team performance trends over multiple events. Enable scorers to upload match photos and videos, providing a multimedia-rich experience for users following the event. Implement seamless integration with popular social media platforms to allow users to share live scores, match highlights, and their own commentary directly from the SCORE website. Enable scorers to generate detailed reports and summaries of each tournament, providing valuable insights for future event planning.

CHAPTER 8

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