MIT-WPU

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SixSense

REPORT

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INTRODUCTION

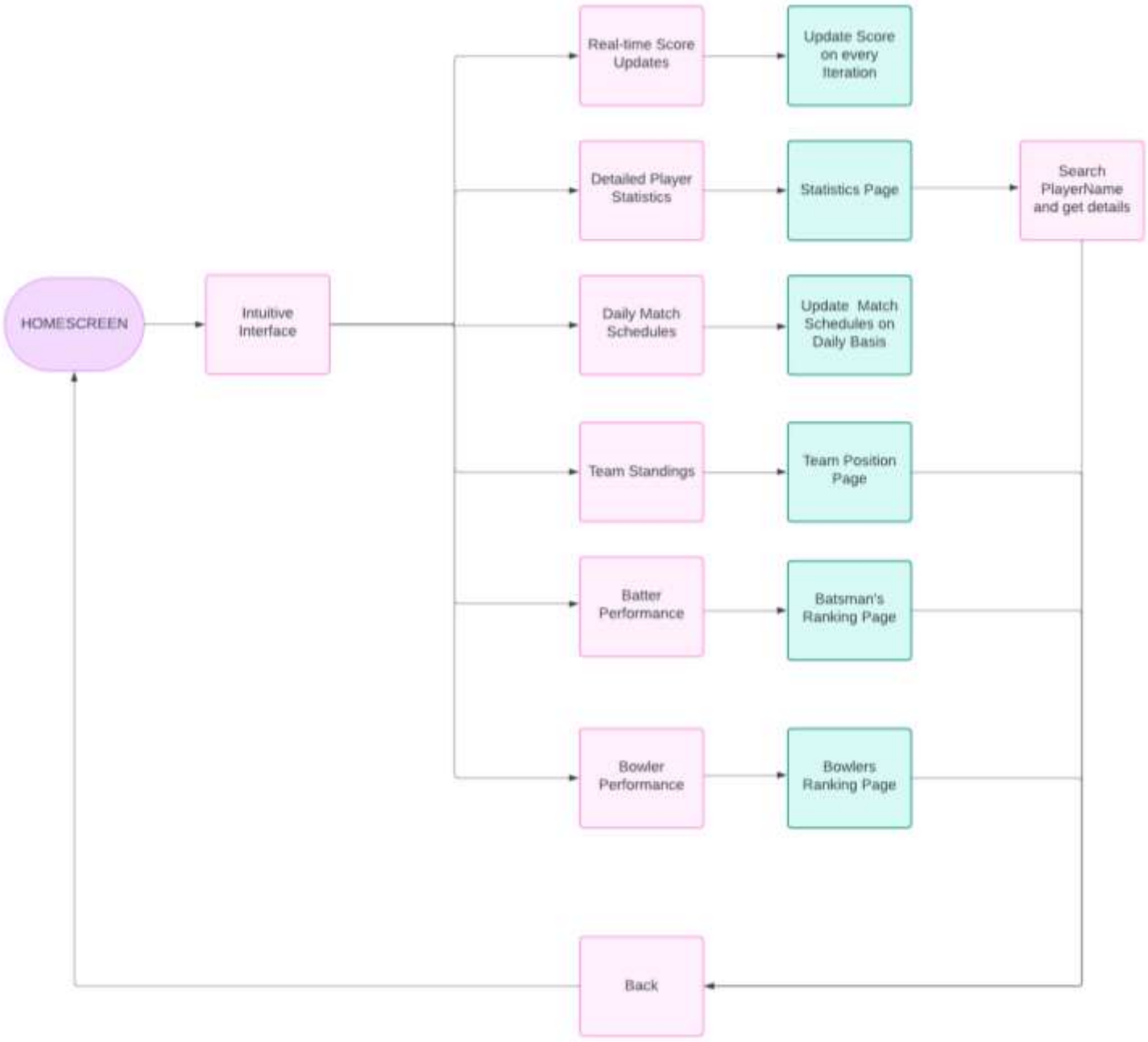
Introducing SixSense, your ultimate destination for live cricket updates and more. This sleek application offers a seamless experience for cricket enthusiasts, boasting a user-friendly interface that makes interacting with it a breeze.

With SixSense, you can stay on top of the game with real-time score updates, ensuring you never miss a crucial moment. Whether it's keeping track of your favorite team's performance or staying updated on the latest match statistics, SixSense has you covered.

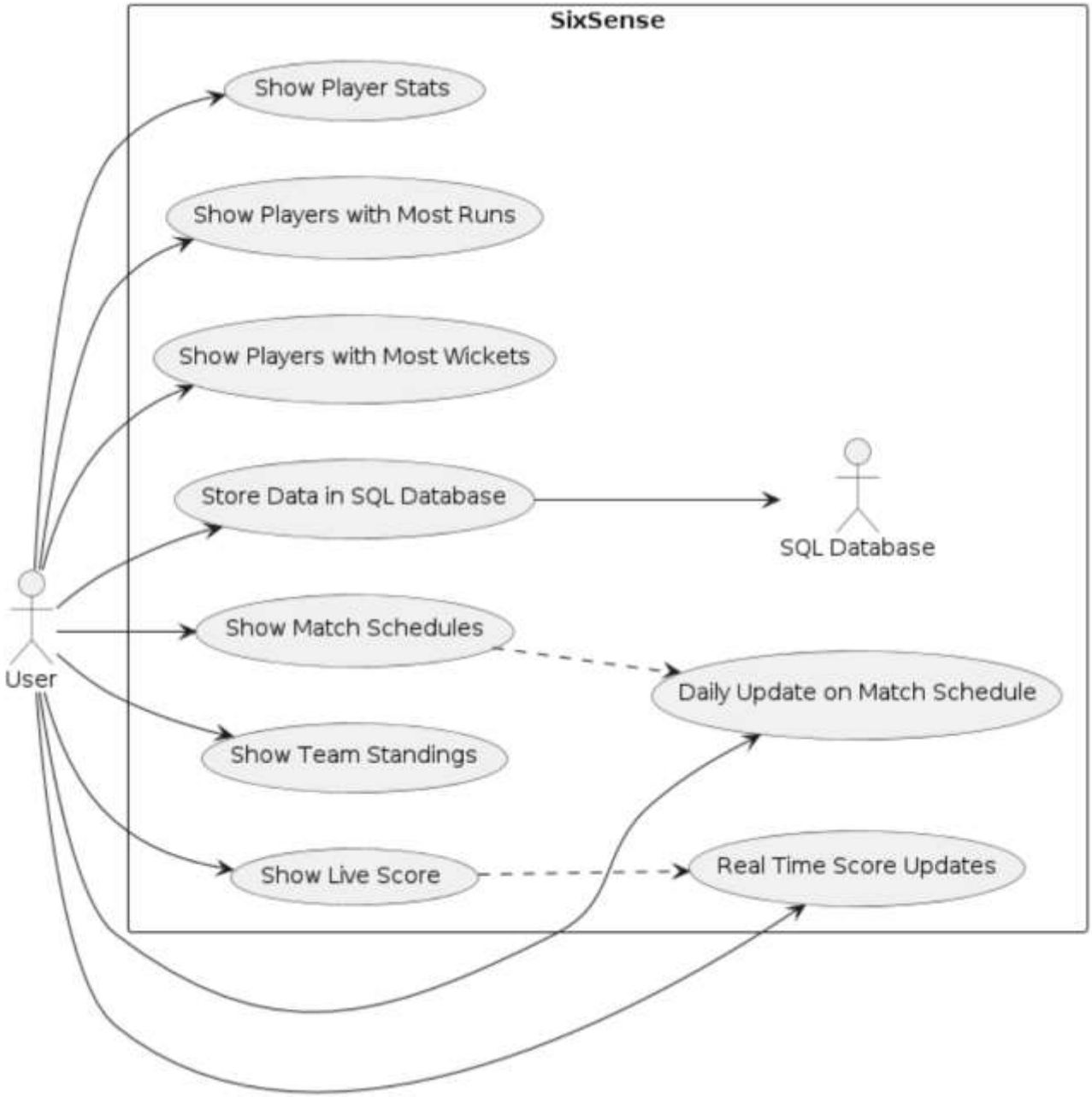
PROBLEM STATEMENT

Create SixSense, a cricket companion app, featuring an intuitive interface for effortless navigation. Stay updated with real-time score updates, tracking every run and wicket as they happen. Delve into detailed player statistics for over 200 players and never miss a game with daily match schedules. Keep tabs on your favorite team's performance through team standings. Customize your experience to your preferences and enjoy seamless integration of various libraries for efficient operation. With a focus on performance optimization, SixSense guarantees a smooth user experience, even during peak usage periods.

Flow of the Project



Use Case Diagram



Task Performed

• Conducted thorough research to understand user requirements and market trends in cricket applications, focusing on features such as live score updates, player statistics, match schedules, and team standings.
• Designed and developed a user-friendly interface for Six Sense using tkinter, prioritizing intuitive navigation and visually appealing design.
• Implemented real-time score updates feature using SQL database to store and retrieve match data, ensuring users have access to the latest scores and match details.
• Incorporated comprehensive player statistics functionality, including displaying players with the most wickets, most runs, and detailed stats for around 200 players, enhancing the app's value for cricket enthusiasts.
• Integrated match schedules feature to provide users with upcoming match details, ensuring they stay informed about upcoming cricket fixtures.
• Included team standings feature to showcase the current rankings and standings of cricket teams, adding depth to the app's coverage of cricket tournaments.
• Employed optimization techniques to maintain smooth performance and responsiveness, especially when handling real-time score updates and extensive player statistics.
• Utilized SQL database for efficient data storage and retrieval, enabling seamless access to match schedules and player statistics.
• Implemented daily updates on match schedules, ensuring users are informed about upcoming matches and events in the cricket world.

Libraries Used

Requests:

Requests is a popular Python library for making HTTP requests. It provides an easy-to-use interface for sending HTTP requests and handling responses, making it a versatile tool for web scraping, interacting with APIs, and more.

Beautiful Soup:

Beautiful Soup is a Python library for parsing HTML and XML documents. It provides tools for navigating, searching, and modifying the parse tree, making it an invaluable tool for web scraping and data extraction tasks.

Pandas:

Pandas is a powerful Python library for data manipulation and analysis. It provides data structures and functions for efficiently handling structured data, making it a cornerstone of data science and analysis workflows.

Datetime:

The datetime module in Python provides classes for manipulating dates and times. It offers functionality for parsing, formatting, and performing arithmetic with dates and times, making it essential for working with time-related data.

Regular Expressions (re):

The re module in Python provides support for working with regular expressions. Regular expressions are patterns used to match character combinations in strings, offering powerful tools for text processing and manipulation.

Pathlib:

Pathlib is a module introduced in Python 3.4 for object-oriented file system path manipulation. It provides an object-oriented interface for interacting with file system paths, offering a more intuitive and platform-independent way to work with file paths.

OS:

The OS module in Python provides functions for interacting with the operating system. It offers tools for tasks such as file and directory manipulation, process management, and environment variables, making it a versatile tool for system-level programming tasks.

MySQL Connector:

MySQL Connector/Python is a Python driver for connecting to MySQL databases. It provides an interface for executing SQL queries, fetching results, and managing database connections, making it an essential tool for building Python applications that interact with MySQL databases.

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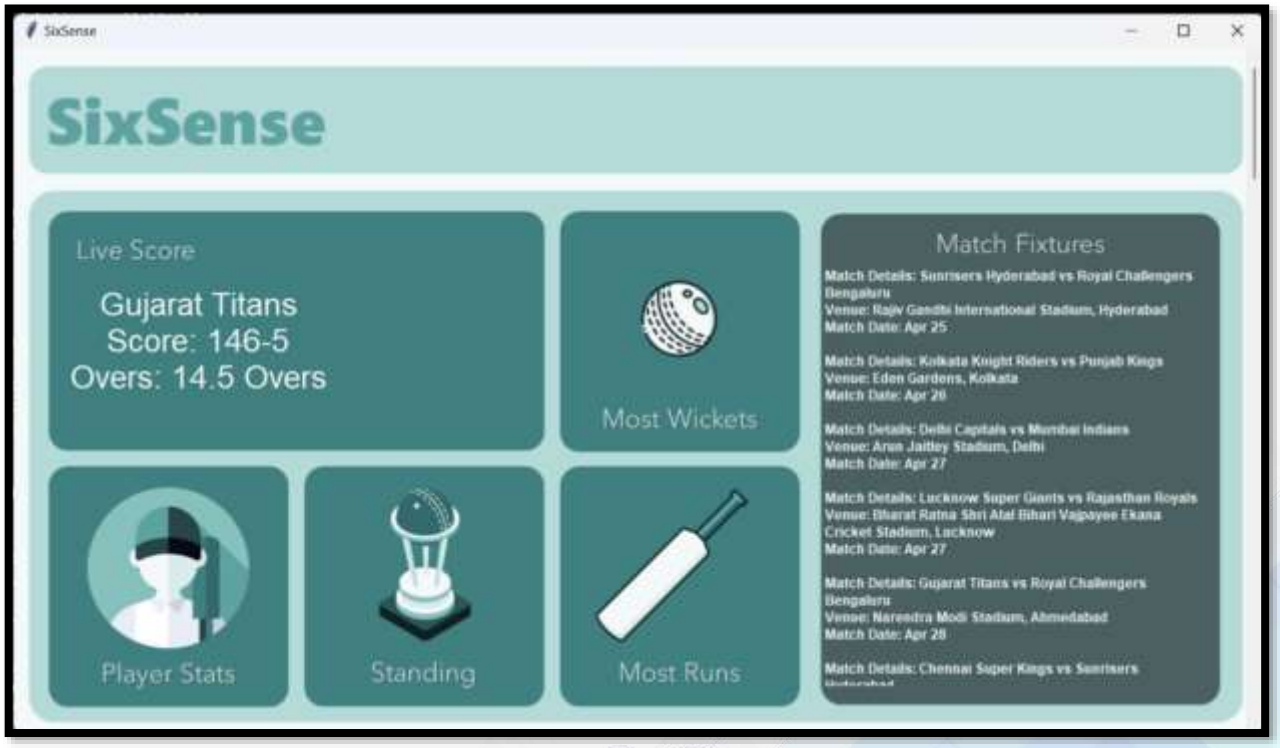
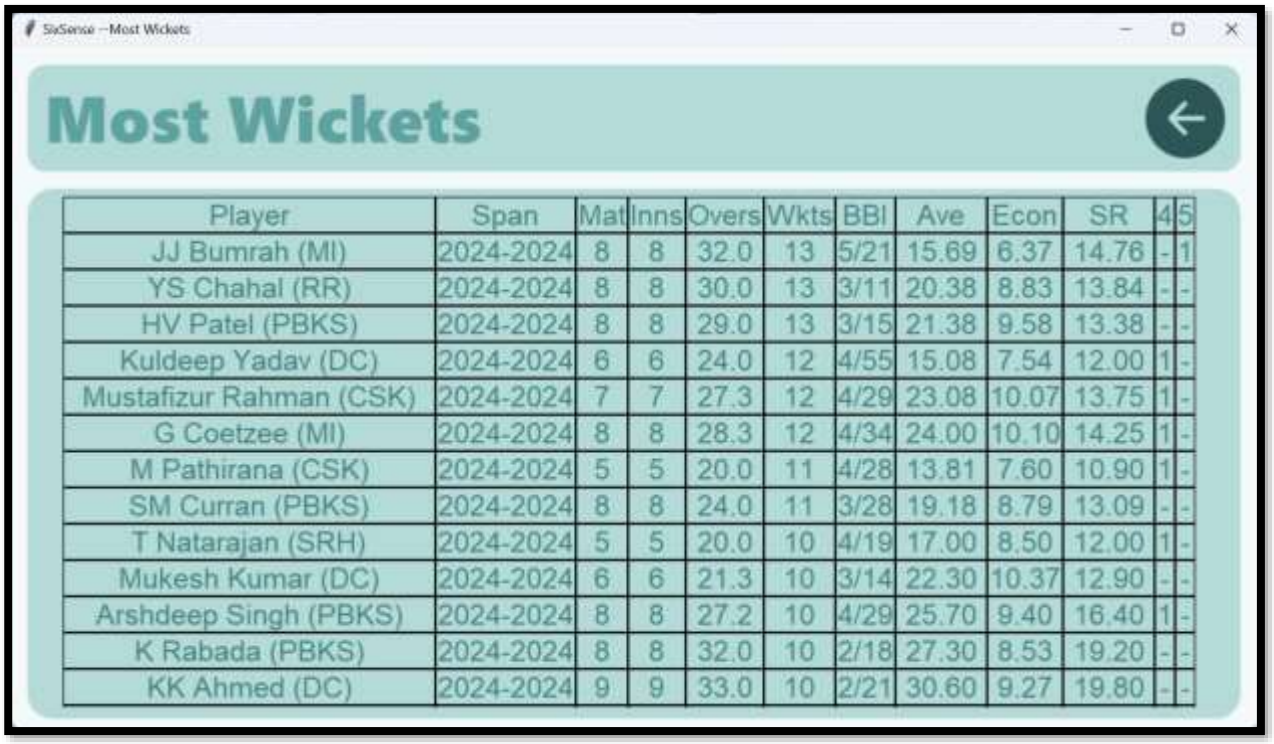
Screenshots

Main Screen:

While Match is played

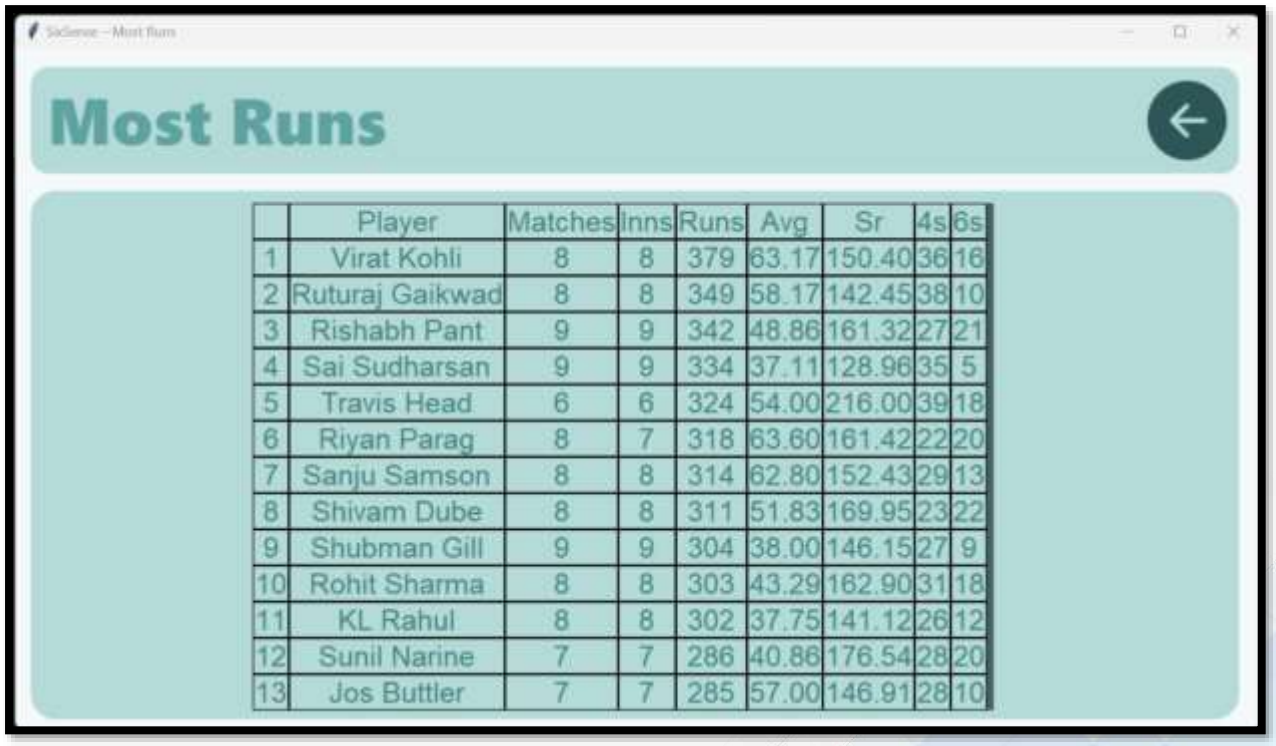


Most Wickets window:



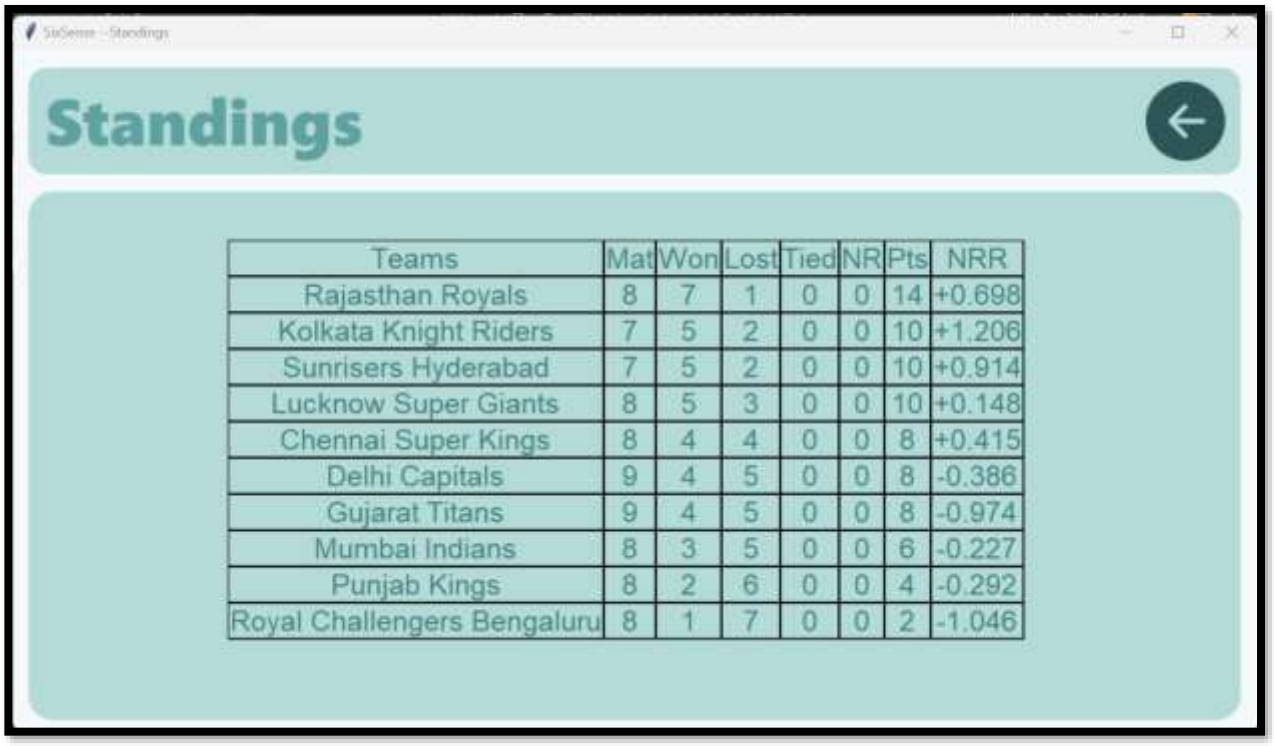
Player	Span	Mat	Inns	Overs	Wkts	BBI	Ave	Econ	SR	4	5
JJ Bumrah (MI)	2024-2024	8	8	32.0	13	5/21	15.69	6.37	14.76	-	1
YS Chahal (RR)	2024-2024	8	8	30.0	13	3/11	20.38	8.83	13.84	-	-
HV Patel (PBKS)	2024-2024	8	8	29.0	13	3/15	21.38	9.58	13.38	-	-
Kuldeep Yadav (DC)	2024-2024	6	6	24.0	12	4/55	15.08	7.54	12.00	1	-
Mustafizur Rahman (CSK)	2024-2024	7	7	27.3	12	4/29	23.08	10.07	13.75	1	-
G Coetzee (MI)	2024-2024	8	8	28.3	12	4/34	24.00	10.10	14.25	1	-
M Pathirana (CSK)	2024-2024	5	5	20.0	11	4/28	13.81	7.60	10.90	1	-
SM Curran (PBKS)	2024-2024	8	8	24.0	11	3/28	19.18	8.79	13.09	-	-
T Natarajan (SRH)	2024-2024	5	5	20.0	10	4/19	17.00	8.50	12.00	1	-
Mukesh Kumar (DC)	2024-2024	6	6	21.3	10	3/14	22.30	10.37	12.90	-	-
Arshdeep Singh (PBKS)	2024-2024	8	8	27.2	10	4/29	25.70	9.40	16.40	1	-
K Rabada (PBKS)	2024-2024	8	8	32.0	10	2/18	27.30	8.53	19.20	-	-
KK Ahmed (DC)	2024-2024	9	9	33.0	10	2/21	30.60	9.27	19.80	-	-

Most Runs Window



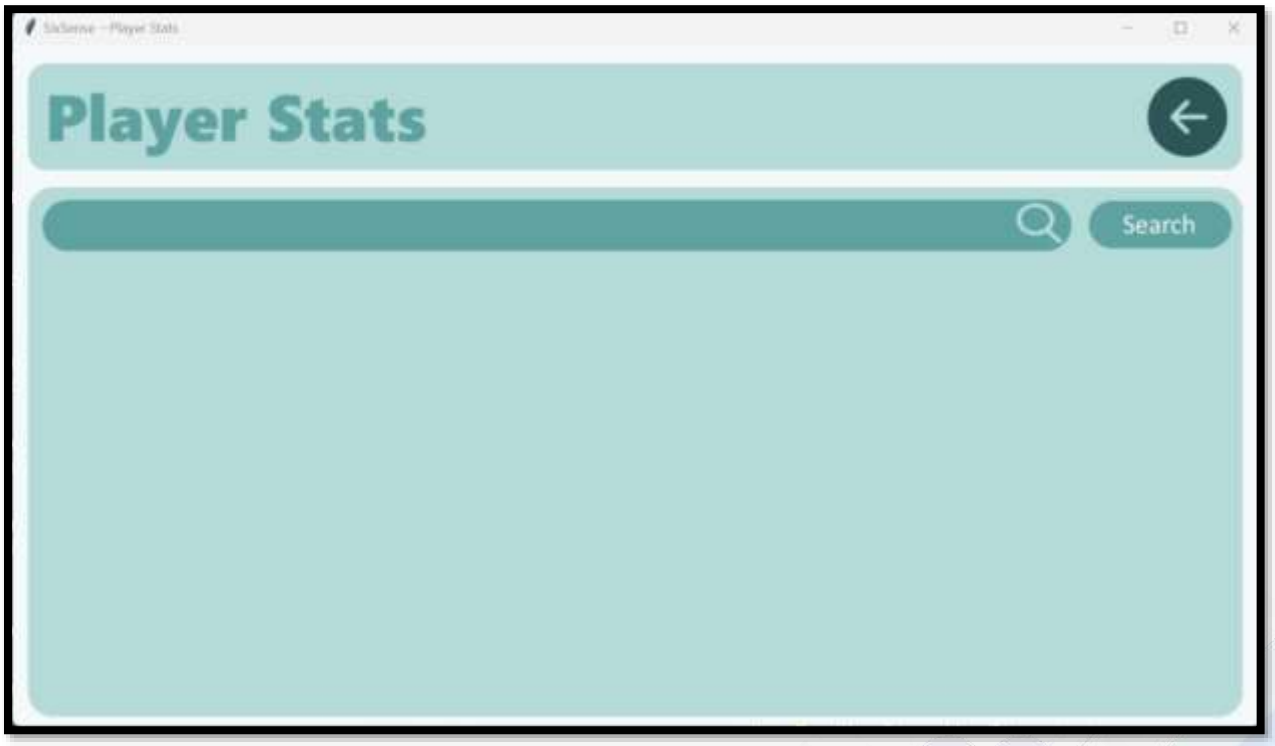
	Player	Matches	Inns	Runs	Avg	Sr	4s	6s
1	Virat Kohli	8	8	379	63.17	150.40	36	16
2	Ruturaj Gaikwad	8	8	349	58.17	142.45	38	10
3	Rishabh Pant	9	9	342	48.86	161.32	27	21
4	Sai Sudharsan	9	9	334	37.11	128.96	35	5
5	Travis Head	6	6	324	54.00	216.00	39	18
6	Riyan Parag	8	7	318	63.60	161.42	22	20
7	Sanju Samson	8	8	314	62.80	152.43	29	13
8	Shivam Dube	8	8	311	51.83	169.95	23	22
9	Shubman Gill	9	9	304	38.00	146.15	27	9
10	Rohit Sharma	8	8	303	43.29	162.90	31	18
11	KL Rahul	8	8	302	37.75	141.12	26	12
12	Sunil Narine	7	7	286	40.86	176.54	28	20
13	Jos Buttler	7	7	285	57.00	146.91	28	10

Current Standing Window



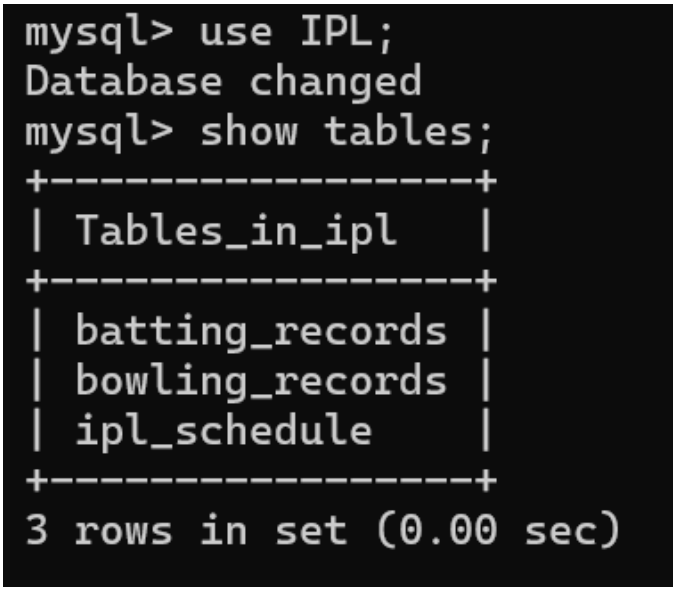
Teams	Mat	Won	Lost	Tied	NR	Pts	NRR
Rajasthan Royals	8	7	1	0	0	14	+0.698
Kolkata Knight Riders	7	5	2	0	0	10	+1.206
Sunrisers Hyderabad	7	5	2	0	0	10	+0.914
Lucknow Super Giants	8	5	3	0	0	10	+0.148
Chennai Super Kings	8	4	4	0	0	8	+0.415
Delhi Capitals	9	4	5	0	0	8	-0.386
Gujarat Titans	9	4	5	0	0	8	-0.974
Mumbai Indians	8	3	5	0	0	6	-0.227
Punjab Kings	8	2	6	0	0	4	-0.292
Royal Challengers Bengaluru	8	1	7	0	0	2	-1.046

Search Window



Database Structure:

A database with name “IPL” will be created which will contain all the tables.
The following tables will have all the web-scraped information stored in form of tables for easier retrieval of data.



- Batting_Records will store Batting performance
- Bowling_Records will store Bowling performance
- Ipl_schedule will store dates and links of match where data needs to be scraped from.

Bibliography:

- www.stackoverflow.com
- www.github.com
- www.youtube.com/c/Codemycom/videos
- www.youtube.com/c/CodeWithHarry/videos
- www.cricbuzz.com
- https://docs.python.org/3/download.html

Thank You