

Cricket Player Performance Tracking Application : CRICKSTATS

User Story:

As a Salesforce Admin, I want to create a comprehensive player performance tracking application within Salesforce to capture and analyze detailed match-by-match information of cricket players. This application will include custom objects such as Player and Match Performance with carefully defined fields and relationships to ensure data integrity and accessibility. By leveraging master-detail and lookup relationships, the application will enable robust tracking of individual and team performances, facilitate insightful reporting and analytics, and support the overall management of player statistics, thereby enhancing strategic decision-making and player development initiatives.

1. INTRODUCTION

1.1 Project Overview :

CRICKSTATS is a Salesforce-based application designed to track, manage, and analyze cricket players' performance on a match-by-match basis. The system uses custom objects, relationships, dashboards, and automation tools to provide structured performance insights.

It enables coaches, analysts, and administrators to record player statistics, generate reports, and support strategic decision-making.

1.2 Purpose :

The main purpose of this project is:

To digitize player performance records

To improve accuracy and accessibility of cricket statistics

To provide real-time analytics

To support player development and team planning

To automate data management using Salesforce

2. IDEATION PHASE

2.1 Problem Statement (Customer Problem Statement Template)

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A cricket team coach	Track player performance across matches	I cannot get accurate statistics easily	Data is stored in different files and formats	Frustrated and unsure about team selection
PS-2	A team manager	Maintain complete player records	It takes too much time to update and verify data	Most records are maintained manually	Stressed and inefficient
PS-3	A sports analyst	Analyze player trends and generate reports	I face difficulty in comparing performances	There is no centralized analytics system	Confused and dissatisfied

Problem Statements

		
A cricket team coach	A team manager	A sports analyst
PS-1	PS-2	PS-3
 A cricket team coach	 A team manager	 A sports analyst
I am: Track player performance across matches	I am: Maintain complete player records	I am: Analyze player trends and generate reports
But: I cannot get accurate statistics easily	But: It takes too much time to update and verify data	But: I face difficulty in comparing performances
Because: Data is stored in different files and formats	Because: Most records are maintained manually	Because: There is no centralized analytics system
 Frustrated and unsure about team selection	 Frustrated and unsure about team selection	 Confused and dissatisfied.

2.2 Empathy Map Canvas

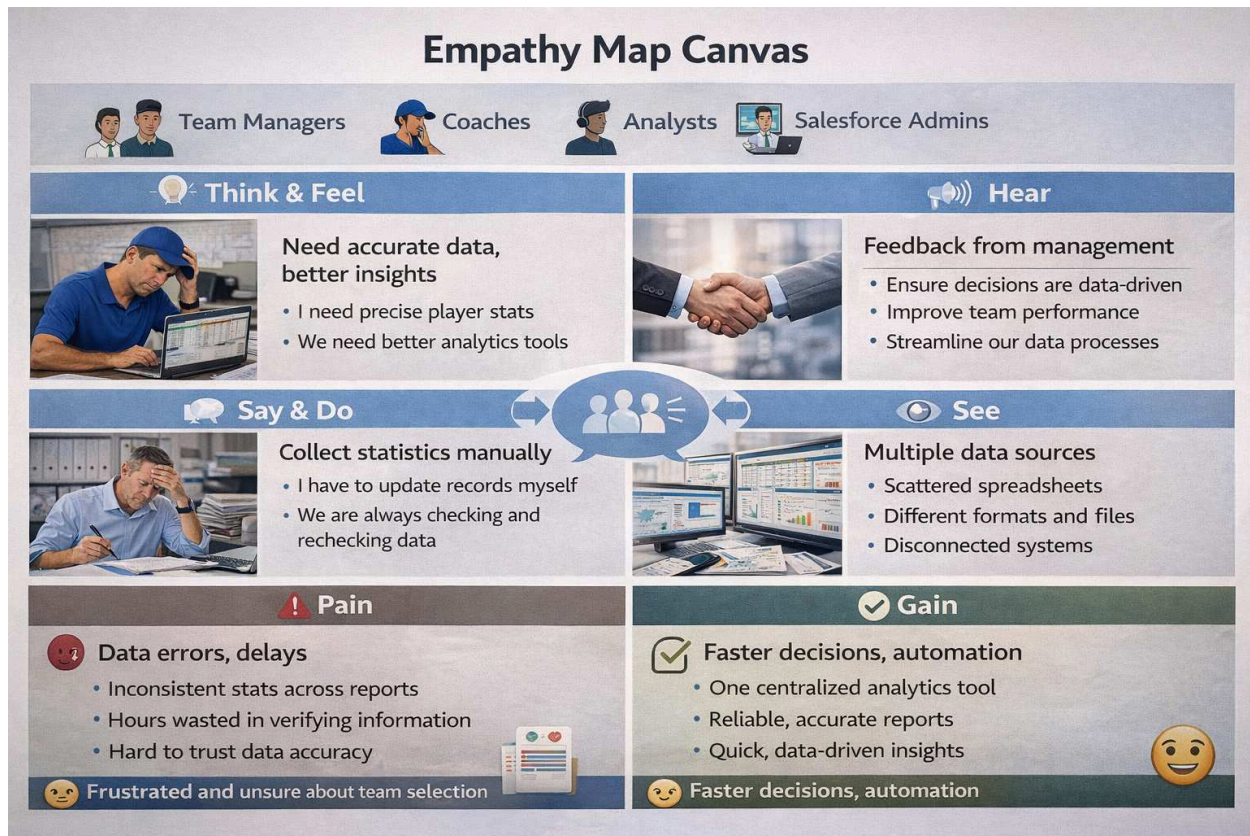
Target Users

- Team Managers
- Coaches
- Analysts
- Salesforce Admins

Empathy Analysis

- | Aspect | Description |
|----------------------------|-------------------------------------|
| ● Think & Feel: | Need accurate data, better insights |
| ● Hear: | Feedback from management |
| ● See: | Multiple data sources |
| ● Say & Do: | Collect statistics manually |

- **Pain:** Data errors, delays
- **Gain:** Faster decisions, automation

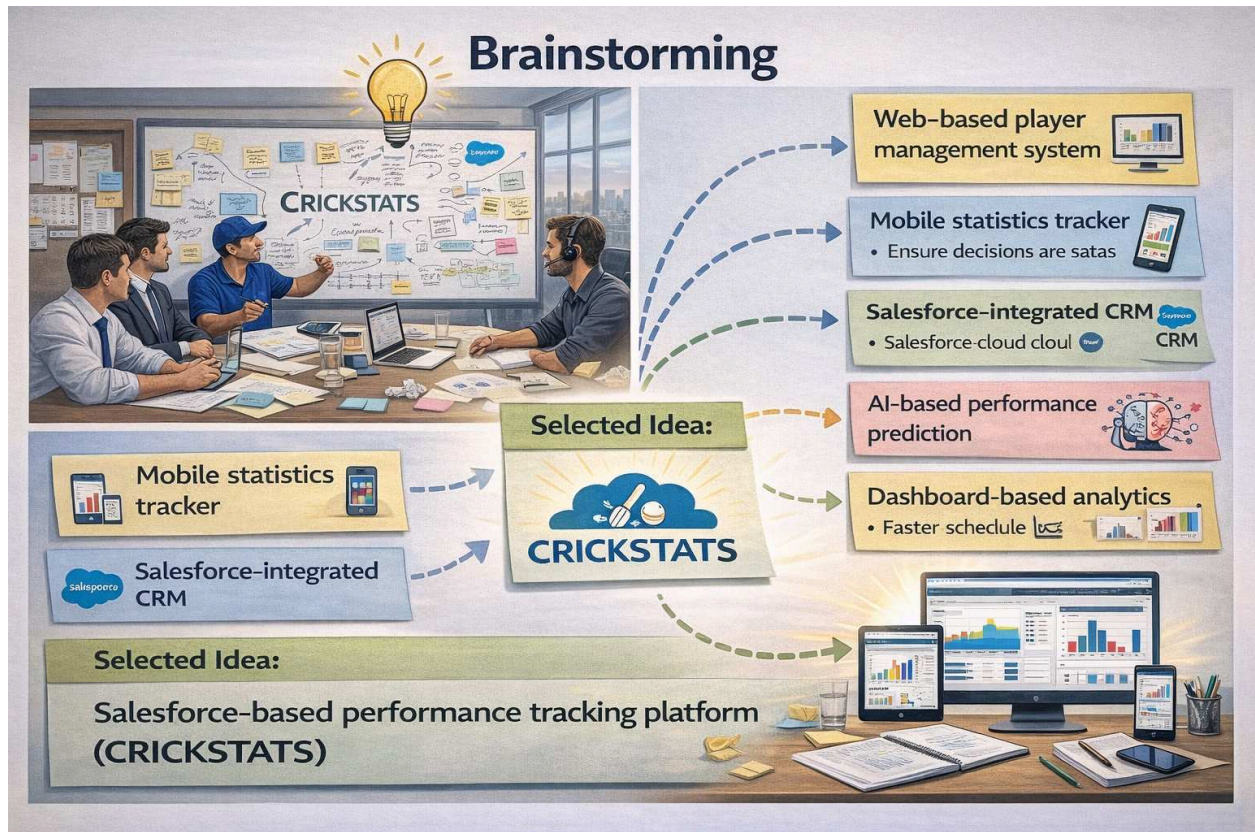


2.3 Brainstorming

Brainstormed Ideas

- Web-based player management system
- Mobile statistics tracker
- Salesforce-integrated CRM
- AI-based performance prediction
- Dashboard-based analytics

Selected Idea: Salesforce-based performance tracking platform (CRICKSTATS)



3.REQUIREMENT ANALYSIS PHASE

3.1 Customer Journey Map

Journey Stages:

- Login
- Enter Player Data
- Record Match Performance
- Generate Reports
- Analyze Results
- Decision Making



3.2 Solution Requirements

Functional Requirements

FR No	Requirement
FR-1	Player Registration
FR-2	Match Performance Entry
FR-3	Dashboard Generation
FR-4	Report Creation
FR-5	Flow Automation

Non-Functional Requirements (NFRs) – CRICKSTATS

NFR-1: Usability

The system should be easy to understand and use by coaches, managers, analysts, and admins without requiring technical training.

Requirements

- Simple and intuitive user interface
- Clear navigation menus
- Easy-to-read dashboards
- Minimal learning curve

Examples:

- A new coach should be able to:
- Log in
- Enter match data
- View player reports
- within a few minutes without special training.

Example: The Salesforce Lightning interface provides drag-and-drop dashboards and user-friendly forms.

NFR-2: Security

The system must protect sensitive player data from unauthorized access.

Requirements

- Role-based access control
- Secure authentication
- Encrypted data storage
- Regular backups

Examples:

- Coaches can view player statistics
- Managers can edit records
- Analysts can generate reports
- Only admins can modify system settings

Example: Salesforce Profiles and Permission Sets restrict access to confidential information.

NFR-3: Reliability

The system should function correctly without failure and store data accurately.

Requirements

- No data loss
- Automatic backups
- Error handling
- System stability

Example:

If a manager enters match statistics and loses internet connection, the data should be saved automatically when reconnected.

Salesforce cloud backup ensures recovery in case of system failure.

NFR-4: Performance

The system should respond quickly and handle large volumes of data efficiently.

Requirements

- Fast page loading
- Quick report generation
- Smooth dashboard rendering
- Minimal response time

Example:

When an analyst generates a performance report for 100+ players, the report should load within 2–3 seconds.

Optimized Salesforce queries and caching improve response speed.

NFR-5: Availability

The system should be accessible whenever users need it.

Requirements

- 24/7 system availability
- Minimal downtime
- Cloud-based access
- Disaster recovery

Example:

Coaches should be able to access CRICKSTATS even during tournaments at night or on weekends.

Salesforce provides high uptime with cloud hosting.

NFR-6: Scalability

The system should support increasing numbers of users, players, and records.

Requirements

- Handle growing datasets
- Support more teams and leagues
- Expand storage capacity
- Maintain performance under load

Example:

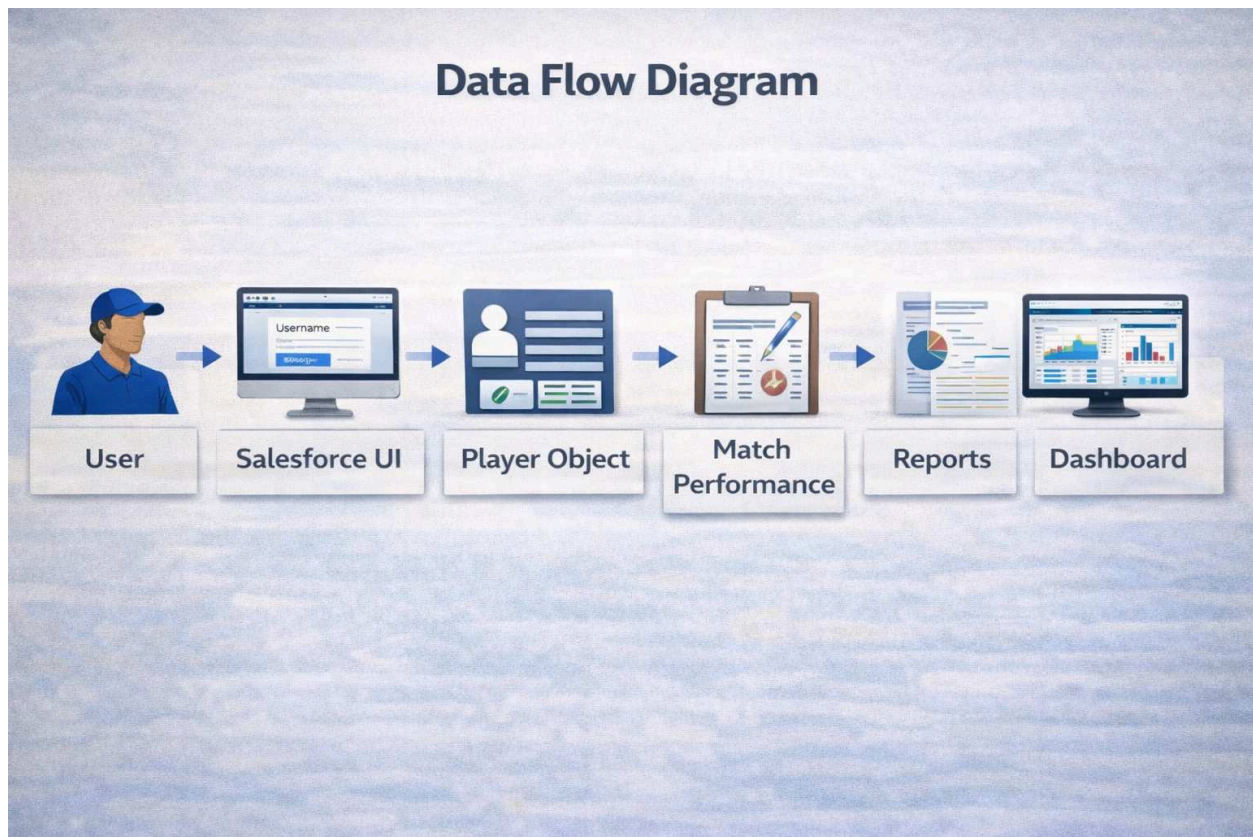
If CRICKSTATS is extended from one team to 50 teams, the system should still perform smoothly.

Salesforce cloud infrastructure automatically scales storage and processing.

3.3 Data Flow Diagram

Data Flow

User → Salesforce UI → Player Object → Match Performance → Reports → Dashboard



3.4 Technology Stack

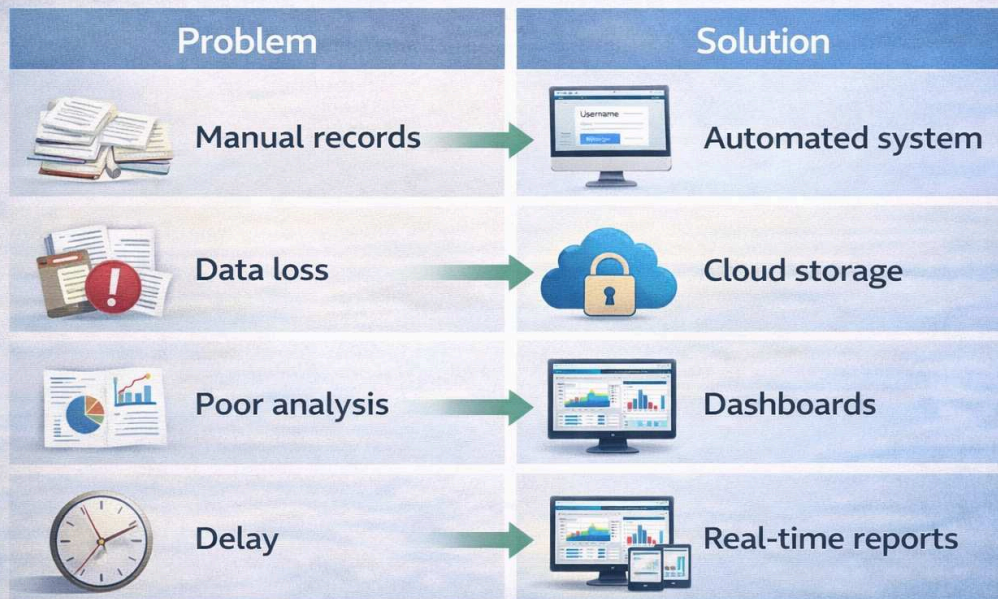
Layer	Technology
Frontend	Salesforce Lightning
Analytics	Reports & Dashboards
Automation	Salesforce Flows
Backend	Salesforce Objects
Database	Salesforce Cloud

4. PROJECT DESIGN PHASE

4.1 Problem–Solution Fit

The CRICKSTATS system effectively addresses the key challenges faced in traditional cricket performance management. Earlier, most player and match data were maintained using manual records, which were time-consuming and prone to errors. This issue has been resolved by implementing an automated system through Salesforce, which ensures accurate and efficient data entry and management. The problem of data loss, caused by improper storage and lack of backups, is overcome by using secure cloud storage that safely stores all information and allows easy retrieval. Poor analysis of player performance, due to scattered and unorganized data, is addressed through interactive dashboards that present clear visual insights and reports. Additionally, delays in accessing performance information and generating reports are eliminated by providing real-time reporting features, enabling users to make faster and more informed decisions. Thus, CRICKSTATS successfully bridges the gap between existing problems and modern technological solutions.

Problem-Solution Fit



4.2 Proposed Solution

Description

CRICKSTATS provides:

- Custom objects (Player, Match Performance)
- Master-detail relationships
- Roll-up summaries
- Lightning App
- Automated flows
- Interactive dashboards

Key Features

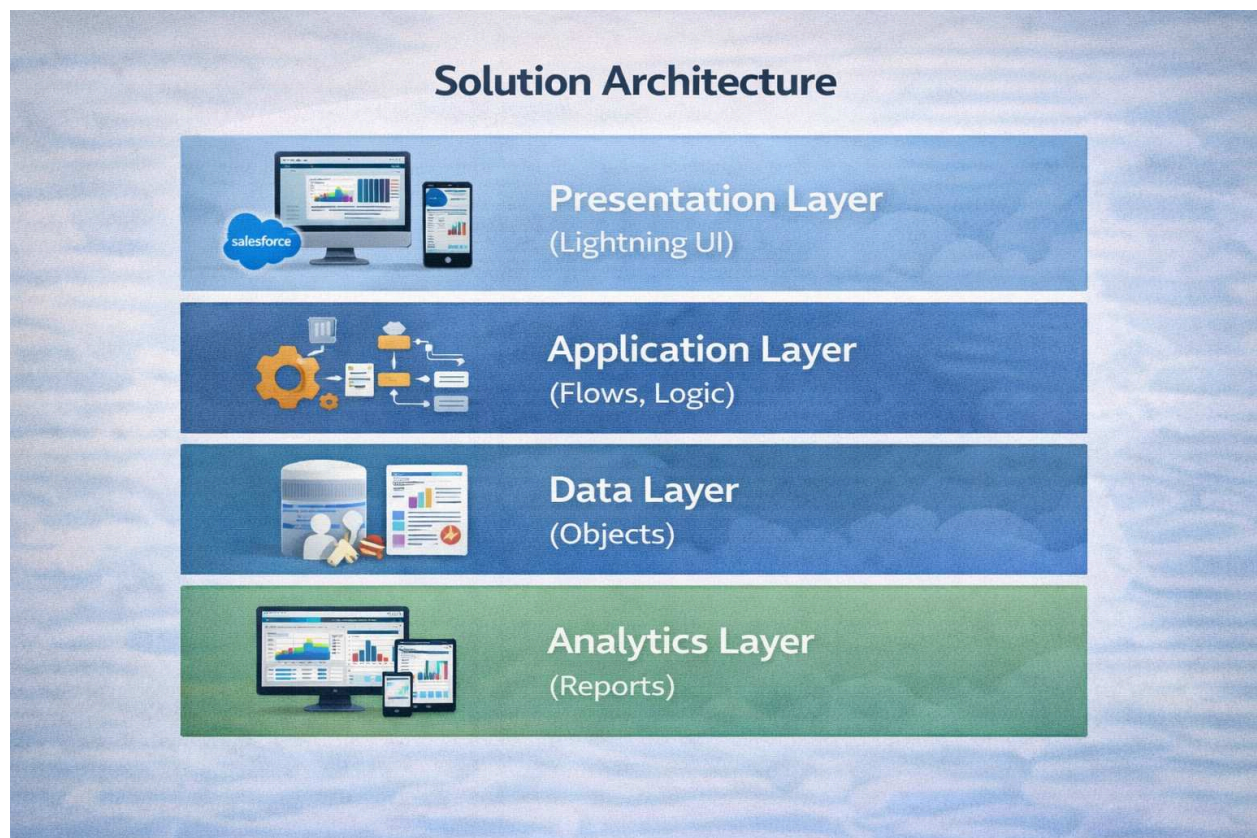
- Centralized database
- Live statistics
- Secure access

- Scalable design
- Easy reporting

4.3 Solution Architecture

Architecture Layers

- Presentation Layer (Lightning UI)
- Application Layer (Flows, Logic)
- Data Layer (Objects)
- Analytics Layer (Reports)



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

- Agile-based execution
- Object creation → automation → reporting
- Sprint-wise development

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Developer Setup	USN-1	As an admin, I want to create a Salesforce developer account so that I can configure and deploy the CRICKSTATS system.	1	High	Member1
Sprint-1	Data Modeling	USN-2	As an admin, I want to create Player and Match Performance objects so that player and match data can be stored systematically.	3	High	Member2
Sprint-2	Navigation	USN-3	As a user, I want separate tabs for each object so that I can easily navigate and manage records within the application.	3	High	Member3
Sprint-2	UI Design	USN-4	As a coach, I want a dedicated Lightning App so that all performance tracking features are accessible from one dashboard.	3	High	Member4
Sprint-2	Data Structure	USN-5	As an admin, I want to create player and match fields so that complete performance details can be captured accurately.	5	Medium	Member1
Sprint-2	Data Structure	USN-6	As a user, I want customized page layouts so that only relevant fields are displayed during data entry.	5	High	Member2
Sprint-2	Automation	USN-7	As a system, I want to validate player and match inputs so that incorrect data entries are prevented.	3	High	Member4
Sprint-3	Automation	USN-8	As a system, I want automated flows to update player statistics so that performance data remains accurate.	5	High	Member1

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

6. Project Development Phase:

Project Flow

Milestone 1 : Creation of developer account

Milestone 2 : Object Creation

Milestone 3 : Tabs

Milestone 4 : The Lightning App

Milestone 5 : Fields & Relationships

Milestone 6 : Roll-up Summary

Milestone 7 : Flows

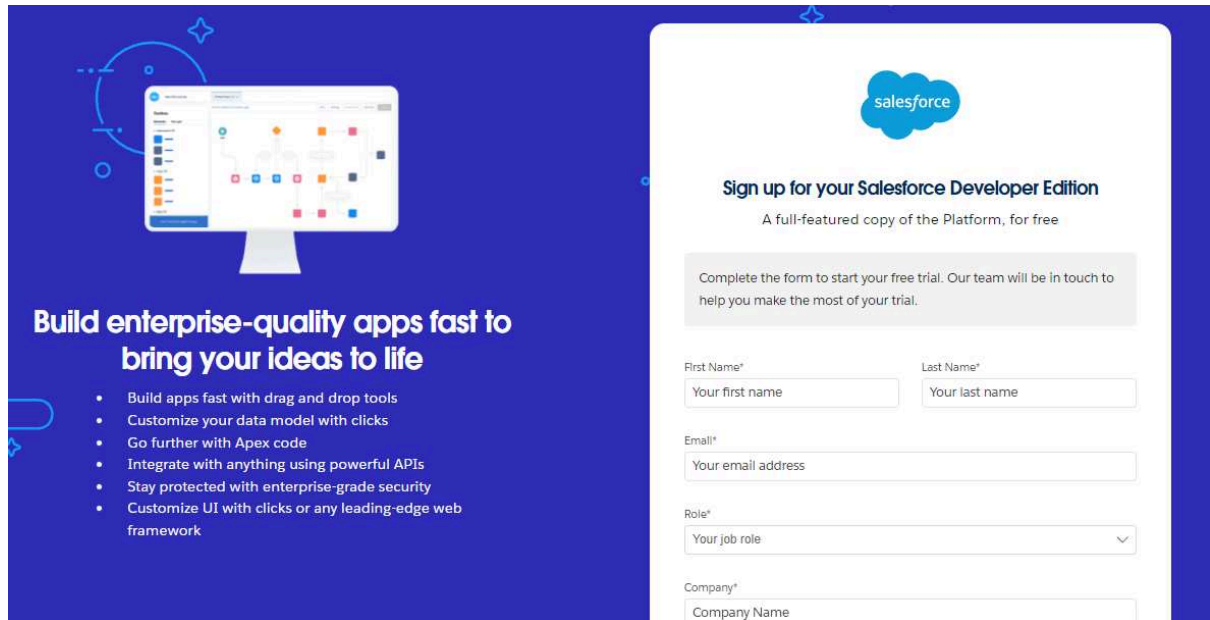
Implementation

Milestone 1 - Salesforce developer account creation :

Activity 1: Creating Developer Account:

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :



Build enterprise-quality apps fast to bring your ideas to life

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- Integrate with anything using powerful APIs
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Sign up for your Salesforce Developer Edition
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Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name* Last Name*

Email*

Role*

Company*

- 1) First name & Last name
- 2) Email
- 3) Role : Developer
- 4) Company : College or Company Name
- 5) Country : India
- 6) Postal Code : pin code
- 7) Username : should be a combination of your name and company

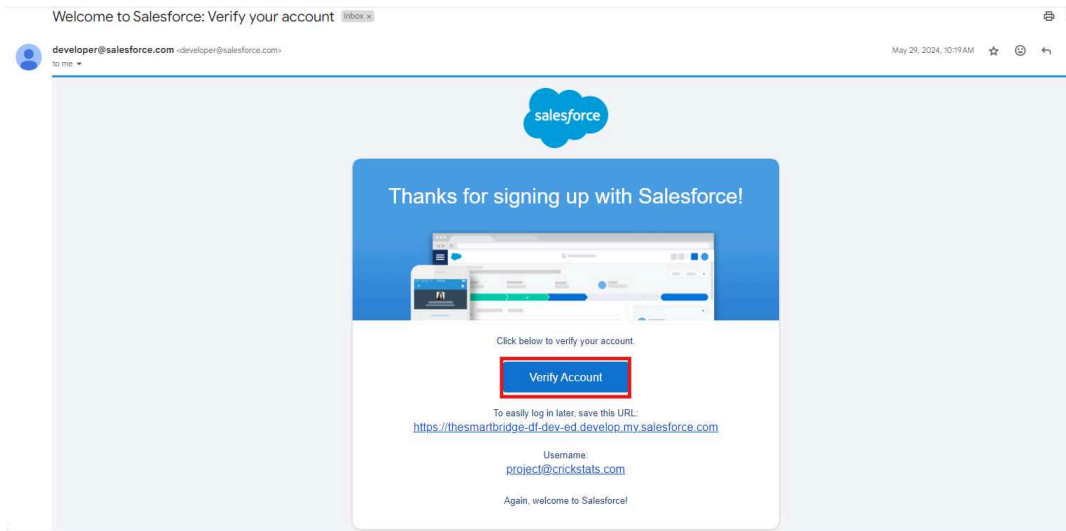
This need not be an actual email id, you can give anything in that format :

username@organization.com

Click on sign me up after filling these.

Activity 2: Account Activation :

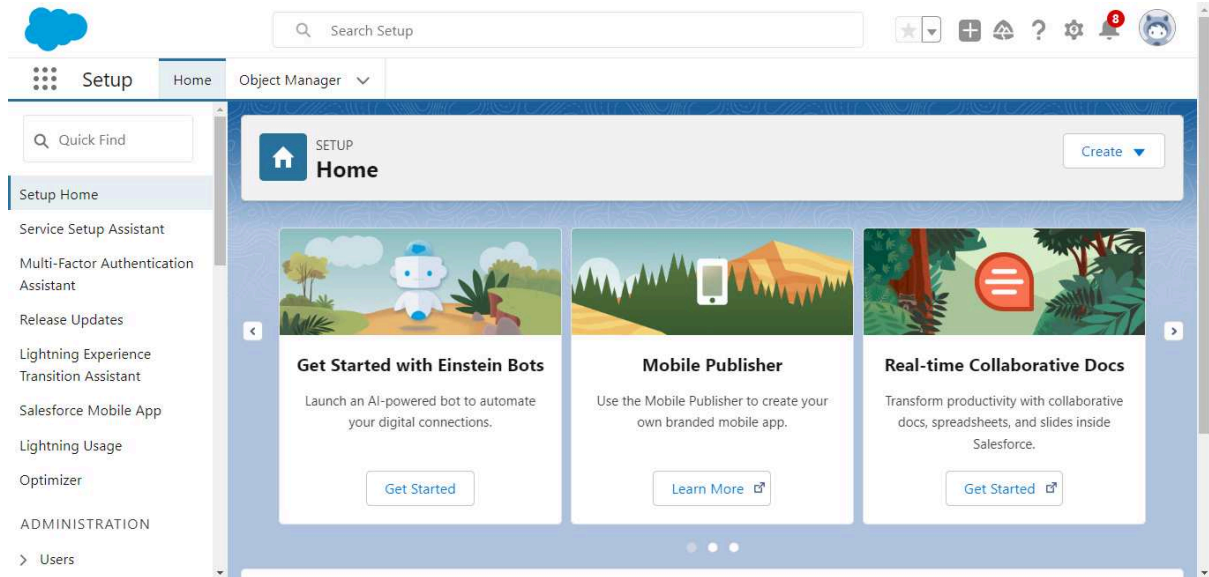
1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.
2. Click on Verify Account.



3. Give a password and answer a security question and click on change password.

This is a screenshot of the "Change Your Password" page in Salesforce. The page title is "Change Your Password". It prompts the user to "Enter a new password for lead@sb.oom." and lists requirements: "8 characters", "1 letter", and "1 number", each with a green checkmark. The form includes a "New Password" field with a "Good" status, a "Confirm New Password" field with a "Match" status, a "Security Question" dropdown menu currently showing "In what city were you born?", and an "Answer" field containing "asdfghikl". A red rectangle highlights the entire form area, including the "Change Password" button at the bottom.

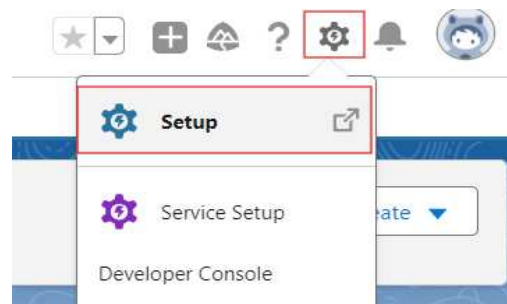
4. Then you will redirect to your salesforce setup page.



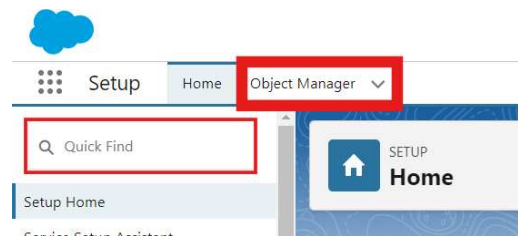
Milestone 2 - Object Creation

Activity 1 : Player Object

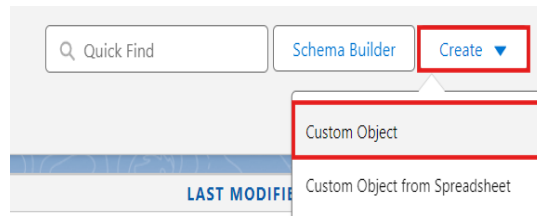
1. In your Salesforce org, click gear icon on the top left and select Setup to open Setup.



2. Click the Object Manager tab. If you don't see it, enter Object Manager in the Quick Find box.



3. On the Object Manager page, click Create | Custom Object.



1. From the setup page → Click on Object Manager → Click on Create → Click on Custom Object.
 - **Label** : Player
 - **Plural Label** : Players
 - Enter Record Name Label and Format
Record Name : Player Name
Data Type : Text
 - **In Optional features** : check the boxes for Allow Reports | Allow Activities | Track Field History.
 - **Search Status** : check the box for Allow Search.
 - Save

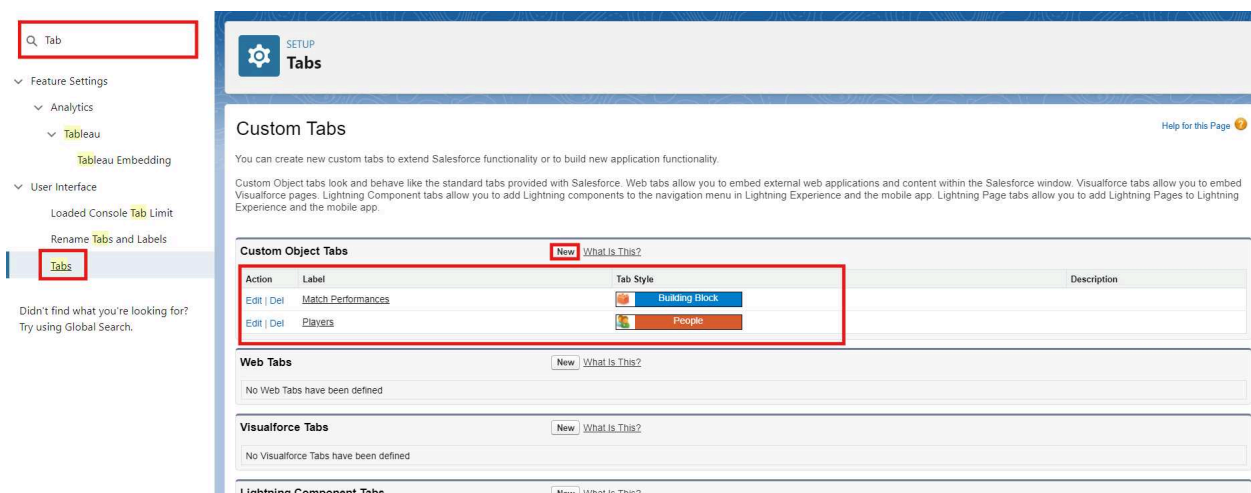
Activity 2 : Match Performance Object

1. From the setup page → Click on Object Manager → Click on Create → Click on Custom Object.
 - **Label** : Match Performance
 - **Plural Label** : Match Performances
 - Enter Record Name Label and Format
Record Name : Customer Account Name
Data Type : Text
 - **In Optional features** : check the boxes for Allow Reports | Allow Activities | Track Field History.
 - **Search Status** : check the box for Allow Search.
 - Save.

Milestone 3 - Tabs

Activity 1 : Custom tabs creation

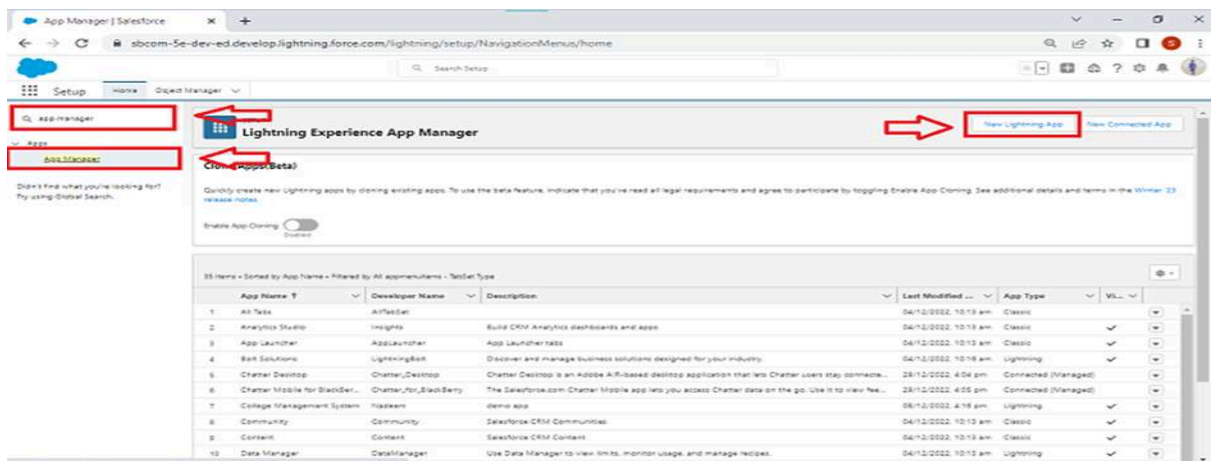
1. Go to setup page → type Tabs in Quick Find bar → click on tabs → New (under custom object tab)
2. Select Object(Player) → Select the tab style → Next (Add to profiles page) keep it as default → Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. Click save.
5. Repeat the same steps for Match Performances.



Milestone 4 - The Lightning App

Activity 1 : Create a lightning app

1. Go to setup page → search “app manager” in quick find → select “app manager” → click on New lightning App.



2. Fill the app name in app details and branding as follow
 App Name : CRICKSTATS
 Developer Name : Auto Populates
 Add image optional (if you want to give any image you can otherwise not mandatory) - Add Primary color Hex or leave it to default.
 Then click Next.
3. In App options
 Navigation style : Standard navigation
 Setup experience : setup
 Supporters form factors : Desktop and phone
 Then click Next
4. In Utility items
 Utility Bar alignment : Default
 Then click Next.
5. Navigation items
 Select the created Custom Objects and required standard objects
 - Players
 - Match Performances
 - Reports
 - Dashboards

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename navigation items. Items that are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

The screenshot shows the 'Navigation Items' configuration interface. It is divided into two main panels: 'Available Items' on the left and 'Selected Items' on the right. The 'Available Items' panel has a search bar with the text 'Dash' and a list below it containing 'Dashboards', which is highlighted with a red box. The 'Selected Items' panel has a list containing 'Players', 'Match Performances', and 'Reports', all of which are highlighted with a red box. Between the two panels is a vertical arrow button, also highlighted with a red box. At the bottom of the interface are 'Cancel' and 'Save' buttons, with the 'Save' button highlighted by a red box.

6. To Add User Profiles : System Administrator

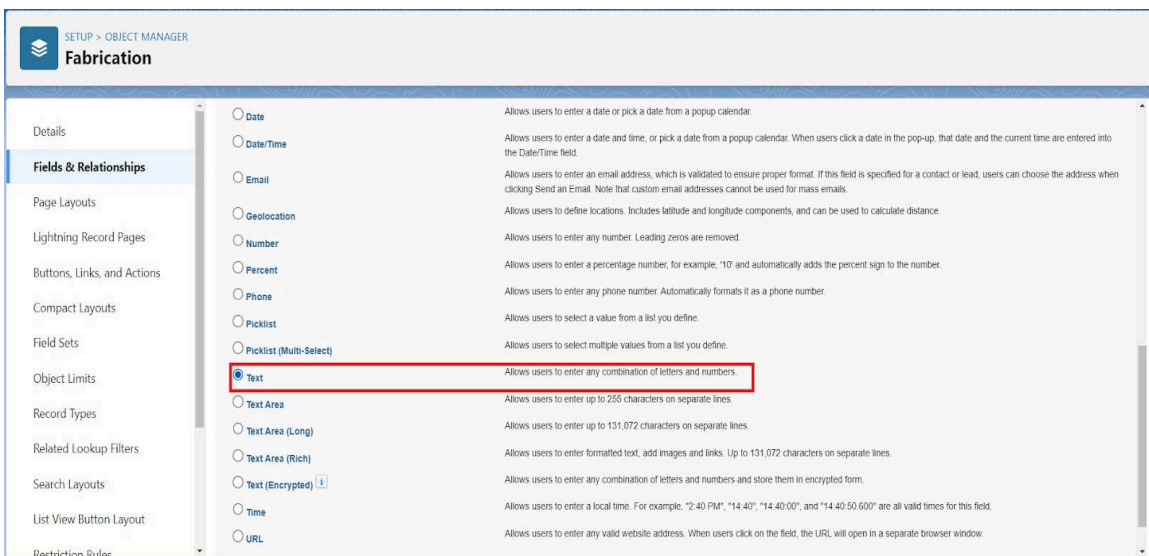
The screenshot shows the 'User Profiles' configuration screen within the 'New Lightning App' context. The title is 'User Profiles' with the subtitle 'Choose the user profiles that can access this app.' Below this are two panels: 'Available Profiles' on the left and 'Selected Profiles' on the right. The 'Available Profiles' panel has a search bar with the text 'System administrator' and a list below it containing 'System administrator', which is highlighted with a red box. The 'Selected Profiles' panel has a list containing 'System Administrator'. A red arrow points from the 'System administrator' item in the 'Available Profiles' list to the 'System Administrator' item in the 'Selected Profiles' list. Below the panels is a vertical arrow button, also highlighted with a red box. At the bottom of the interface is a 'Save & Finish' button, highlighted by a red box. A red arrow points to the 'Save & Finish' button.

7. Click Save & Finish.

Milestone 5 : Fields & Relationships

Activity 1 : Create Custom fields for Player object

1. In your Salesforce org, click gear icon on the top left and select Setup to open Setup.
2. Click the Object Manager tab. If you don't see it, enter Object Manager in the Quick Find box.
3. From the object manager page, In the Quick Find box, Search for the custom object you just created : **Player**
4. From the sidebar, click Fields & Relationships. Notice that there are already some fields there. Those are the standard fields.
5. Click New to create a custom field. Tip: Before creating a new field, do a quick search to make sure a similar one doesn't already exist.
6. Next, choose a data type as Text. Choosing a data type helps you format the field input.



7. Click on next.
8. Data Type : **Text**
Field Label: Player Name
Field Name : Auto Populates
Length : 50
Click on Next → Next → Save and new.

9. Repeat the Same steps for remaining fields

- Data Type : **Text**
Field Label: Player Number
Field Name : Auto Populates
Length : 3
Click on Next → Next → Save and new.
- Data Type : **Rich Text Area**
Field Label : Profile Picture
Field Name : Auto Populates
Click on Next → Next → Save and new.
- Data Type : **Date**
Field Label : Date of Birth
Field Name : Auto Populates
Click on Next → Next → Save and new.
- Data Type : **Picklist**
Field Label : Role
Field Name : Auto Populates
Value : Enter value, with each value separated by a new line.
Batsman
Bowler
Batsman & Wicket Keeper
All Rounder
- Data Type : **Picklist**
Field Label : Batting Style
Field Name : Auto Populates
Value : Enter value, with each value separated by a new line.
Right- Handed
Left - Handed
Click on Next → Next → Save and new.
- Data Type : **Picklist**
Field Label : Bowling Style
Field Name : Auto Populates
Value : Enter value, with each value separated by a new line.
Right-Arm Fast
Left-Arm Fast

Right-Arm Medium
Left-Arm Medium
Right-Arm Spin
Left-Arm Spin

Click on Next → Next → Save and new.

- Data Type : **Picklist**

Field Label : Nationality

Field Name : Auto Populates

Value : Enter value, with each value separated by a new line.

Australia
Bangladesh
England
India
New Zealand
Pakistan
South Africa
Sri Lanka
West Indies
Afghanistan
Zimbabwe
Ireland
Scotland
Netherlands
United Arab Emirates
Nepal
United States of America

Click on Next → Next → Save and new.

- Data Type : **Picklist**

Field Label : Team

Field Name : Auto Populates

Value : Enter value, with each value separated by a new line

Chennai Super Kings (CSK)
Delhi Capitals (DC)
Kolkata Knight Riders (KKR)
Mumbai Indians (MI)
Punjab Kings (PBKS)
Rajasthan Royals (RR)
Royal Challengers Bangalore (RCB)
Sunrisers Hyderabad (SRH)
Gujarat Titans (GT)
Lucknow SuperGiants (LSG)

- Data Type : **Formula**
Field Label : AVG Score
Field Name : Auto Populates
Formula Return : **Number**
Formula : IF(

Matches_Played__c > 0,
Total_Runs__c / Matches_Played__c ,
0
)

Click on Next → Next → Save & New.

- Data Type : **Lookup Relationship**
Related To : Match Performance
Field Label : Match Performance
Field Name : Auto Populates
Click on Next → Next → Save.

Activity 2 : Create Custom fields for Match Performance object.

1. Data Type : **Text**
Field Label: Match Performance Name
Field Name : Auto Populates
Length : 80
Click on Next → Next → Save and new.
2. Data Type : **Checkbox**
Field Label: Player of the Match

Field Name : Auto Populates
Click on Next → Next → Save and new.

3. Data Type : **Picklist**

Field Label: Match Result

Field Name : Auto Populates

Value : Enter value, with each value separated by a new line

WON

LOST

DRAW

Click on Next → Next → Save and new.

4. Data Type : **Number**

Field Label: Runs Scored

Field Name : Auto Populates

Click on Next → Next → Save and new.

5. Data Type : **Number**

Field Label: Balls Faced

Field Name : Auto Populates

Click on Next → Next → Save and new.

6. Data Type : **Number**

Field Label: Fours

Field Name : Auto Populates

Click on Next → Next → Save and new.

7. Data Type : **Number**

Field Label: Sixes

Field Name : Auto Populates

Click on Next → Next → Save and new.

8. Data Type : **Number**

Field Label: Overs Bowled

Field Name : Auto Populates

Click on Next → Next → Save and new.

9. Data Type : **Number**

Field Label: Wickets Taken

Field Name : Auto Populates

Click on Next → Next → Save and new.

10. Data Type : **Number**
Field Label: Runs Conceded
Field Name : Auto Populates
Click on Next → Next → Save and new.
11. Data Type : **Number**
Field Label: Maiden Overs
Field Name : Auto Populates
Click on Next → Next → Save and new.
12. Data Type : **Number**
Field Label: Stumpings
Field Name : Auto Populates
Click on Next → Next → Save and new
13. Data Type : **Number**
Field Label: Catches
Field Name : Auto Populates
Click on Next → Next → Save and new.
14. Data Type : **Master - Detail Relationship**
Related To : Player
Field Label : Player
Field Name : Auto Populates
Click on Next → Next → Save.

Milestone 6 : Roll-up Summary

Activity 1 : Create Roll-up Summary for Player object.

Note :- Roll-up Summary can only be created on parent object in Master- Detail Relationship.

1. In your Salesforce org, click gear icon on the top left and select Setup to open Setup.
2. Click the Object Manager tab. If you don't see it, enter Object Manager in the Quick Find box.
3. From the object manager page, In the Quick Find box, Search for the custom object you just created : **Player**

- From the sidebar, click Fields & Relationships. Notice that there are already some fields there. Those are the standard fields.
- Click New to create a custom field. Tip: Before creating a new field, do a quick search to make sure a similar one doesn't already exist. Click Next,
- Choose a data type as **Roll-up Summary**. Click Next.

Field Label: Matches Played

Field Name : Auto Populates

Summarized Object : Match Performances

Select Roll-up Type : COUNT

Select Object to Summarize

Master Object: Player

Summarized Object: Match Performances

Select Roll-Up Type

☒ COUNT

☐ SUM

☐ MIN

☐ MAX

Field to Aggregate: --None--

Filter Criteria

☒ All records should be included in the calculation

☐ Only records meeting certain criteria should be included in the calculation

Previous Next Cancel

Filter Criteria : All records should be included in the calculation.

Click on Next → Next → Save and new.

- Data Type : Roll-up Summary
- Field Label: Number of 50's
- Field Name : Auto Populates
- Summarized Object : Match Performances
- Select Roll-up Type : COUNT
- Filter Criteria : Only records meeting certain criteria should be included in the calculation.
- Click on Next → Next → Save and new.

Select Roll-Up Type

☒ COUNT

☐ SUM

☐ MIN

☐ MAX

Field to Aggregate: --None--

Filter Criteria

☐ All records should be included in the calculation

☒ Only records meeting certain criteria should be included in the calculation

Field	Operator	Value	
Runs Scored	greater or equal	50	AND
Runs Scored	less than	100	AND
--None--	--None--		AND
--None--	--None--		AND
--None--	--None--		

For checkbox fields, enter a value of True for checked or False for not checked. For picklist fields, enter the master picklist field value in your corporate language.

Save Cancel

- Data Type : Roll-up Summary
Field Label: Number of 100's
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : COUNT
Filter Criteria : Only records meeting certain criteria should be included in the calculation.
Click on Next → Next → Save and new.

Master Object: Player
Summarized Object: Match Performances

Select Roll-Up Type

☒ COUNT
☐ SUM
☐ MIN
☐ MAX

Field to Aggregate: --None--

Filter Criteria

☐ All records should be included in the calculation
☒ Only records meeting certain criteria should be included in the calculation

Field	Operator	Value	
Runs Scored	greater or equal	100	AND
Runs Scored	less than	200	AND
--None--	--None--		AND
--None--	--None--		AND
--None--	--None--		AND

For checkbox fields, enter a value of True for checked or False for not checked. For picklist fields, enter the master picklist field value in your corporate language.

Previous Next Cancel

- Data Type : Roll-up Summary
Field Label: Total 4's
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Fours
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.
- Data Type : Roll-up Summary
Field Label: Total 6's
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Sixes
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.
- Data Type : Roll-up Summary
Field Label: Total Runs
Field Name : Auto Populates

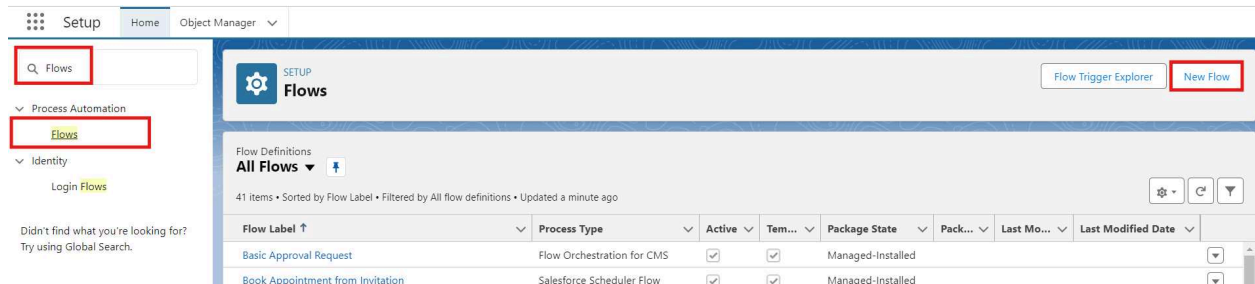
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Runs Scored
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.

- Data Type : Roll-up Summary
Field Label: Total Overs
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Overs Bowled
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.
- Data Type : Roll-up Summary
Field Label: Total Wickets
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Wickets Taken
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.
- Data Type : Roll-up Summary
Field Label: Total Stumpings
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Stumpings
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.
- Data Type : Roll-up Summary
Field Label: Total Catches
Field Name : Auto Populates
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Catches
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.

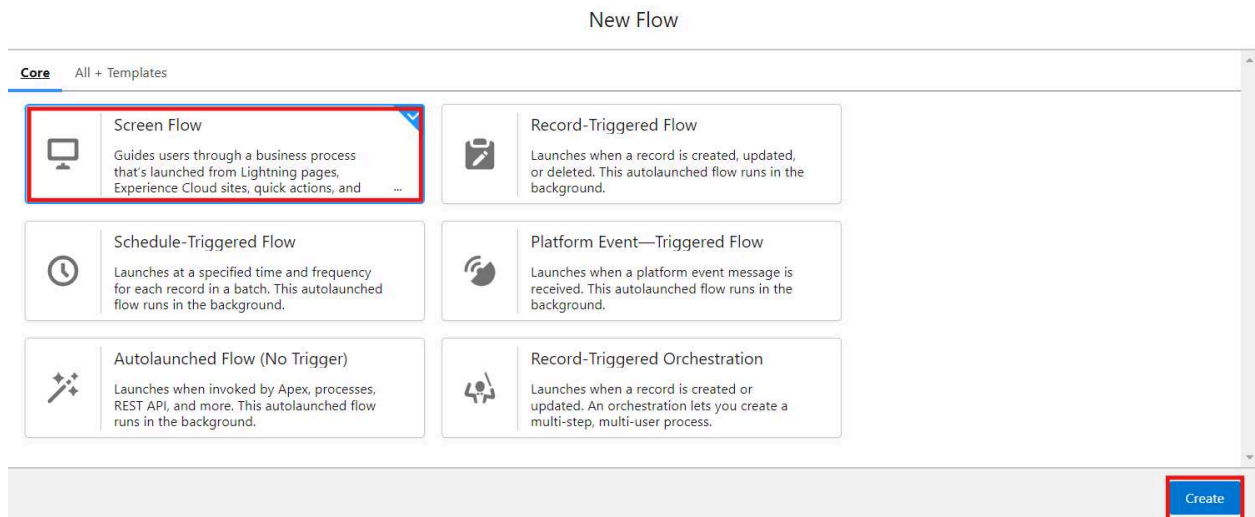
Milestone 7 : Flows

Activity 1 : Screen Flow

1. Go to setup, Type Flow in quick find box → Click on the Flow and Select the New Flow.



2. Select Screen Flow and click Create.



3. Click (+) Icon on the flow builder and Select **Screen Component**.
Label : Players screen
API : Players_screen
Select the **Picklist** component and place it on the screen.
Label : Team
API : Team
From Component Pane on the left side select **Component Type** : Picklist
Data Type : Text
Choice : Click New Choice Resources

Resource Type : Picklist Choice Set

*Resource Type

Select...

- Choice
Create a choice option to be used in a screen component.
- Collection Choice Set
Generate a set of choices from a collection of records.
- Record Choice Set
Generate a set of choices using a filtered list of records.
- Picklist Choice Set**
Generate a set of choices by using the values of a picklist or multi-select picklist field.

Cancel Done

API Name : Team

Object : Player

Data Type : Picklist

Field : Team

Click Done.

New Choice Resource

*Resource Type
Picklist Choice Set

*API Name
Team

Description

*Object
Player

*Data Type
Picklist

*Field
Team__c

Sort Order
Default Order of Field

Cancel Done

4. Click (+) Icon on the flow builder and Select **Get Records Component**.

Label : Players

API Name : Players

Object : Player

Filter player records :

Field : Team

Operator : Equals

Value : Click New Resource

Resource Type : Variable

API Name : Dynamic

Data Type : Text

Default Value : **Screen component** : Team (Picklist)

Filter Player Records

Condition Requirements

All Conditions Are Met (AND)

Field: Team__c Operator: Equals Value: dynamic

+ Add Condition

5. Click (+) Icon on the flow builder and Select **Screen Component**.

Label : Player_info

API Name : Player_info

From Component Pane on the left side select **Component Type** : Data table

API Name : Player_info_table

Label : Data Table

Configure Data Source : **Source Collection** : Players from players (Player__c)

Edit Screen

players flow

Data Table

0 items

Pro... Pla... Tot... AV... Na... Bat... Bo... Ma... Nu... Nu...

No items to display.

Pause Previous Finish

Get more on the AppExchange

Data Table

Label: Data Table

Use Label as the table title

Configure Data Source

Source Collection

Enter value or search resources...

New Resource

RECORD COLLECTION VARIABLES

Players from Players

Player__c

SCREEN COMPONENTS

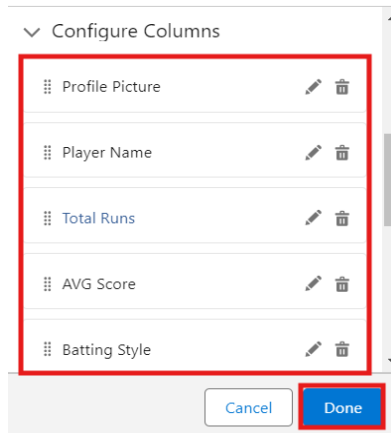
Player_info_table

Data Table

In Configure Columns : Add all the required Columns

Profile Picture | Player Name | Total Runs | AVG Score | Batting Style | Bowling Style | Matches Played | Number of 50's | Number of 100's

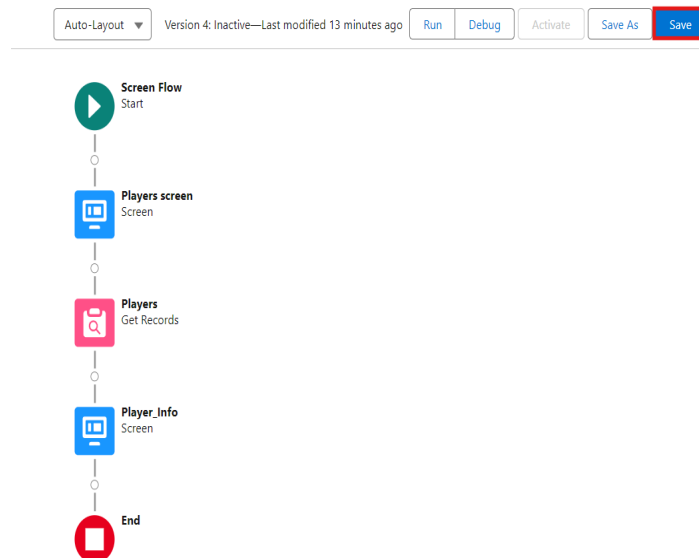
Click Done.



Click Save.

Flow Label : Player Flow

Flow API Name : Player_Flow

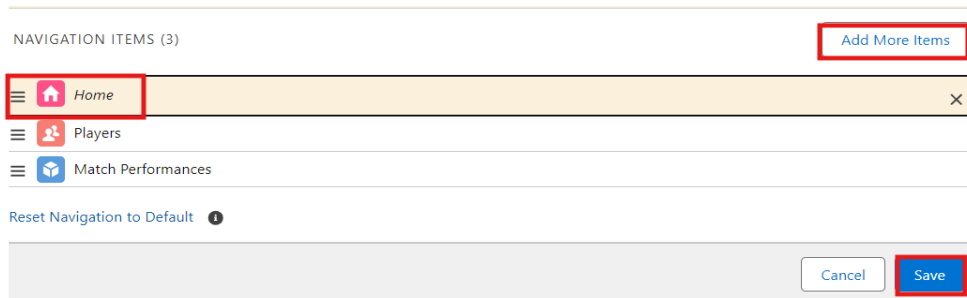


Save the flow

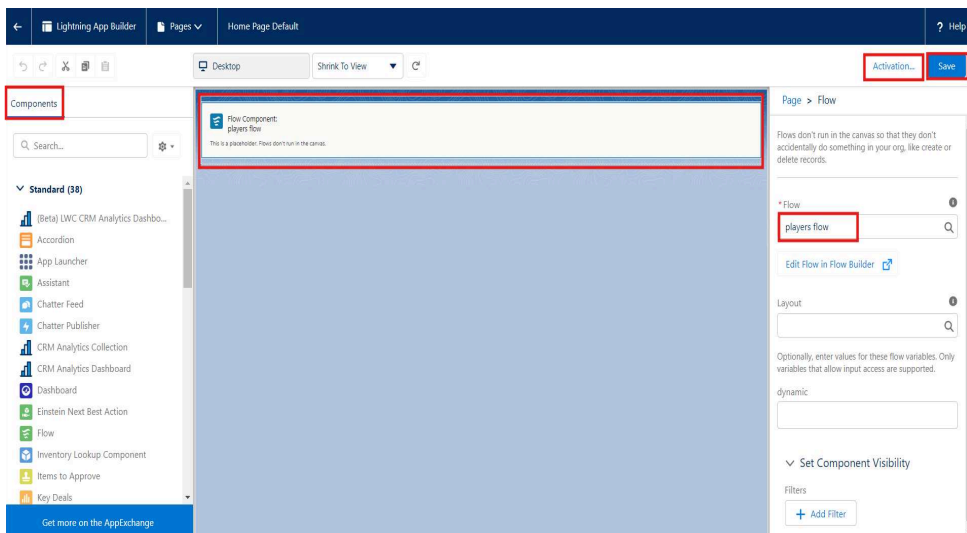
* Flow Label	* Flow API Name
<input type="text" value="Player Flow"/>	<input type="text" value="Player_Flow"/>
Description	
<input type="text"/>	
Show Advanced	
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Activity 2 : Flow on Home Page

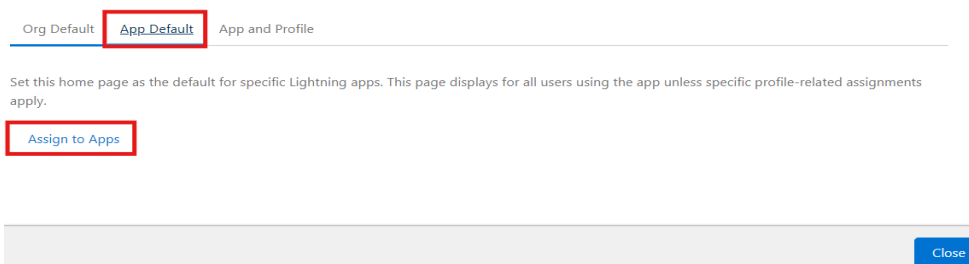
1. On your CRICKSTATS Application on the top right of the Navigation Bar click on **Personalize your nav bar icon (Pencil Icon)** and Add Home Page and click Save.



2. Remove all other components and Add **FLOW** component from the standard components on the left side.
3. **Flow** : Players Flow



4. Click **Save** and **Activation**.
5. Click on **App Default** and select **Assign to Apps**.



6. Select **CRICKSTAS** App and Click **Next** and then click **Save**.

Select Apps

Selected Lightning apps display "Home Page Default" as the home page.

Lightning Apps (12)		1 Selected
App Name	Description	
<input type="checkbox"/> Commerce	Manage your store's products, catalogs, and pricebooks.	
<input checked="" type="checkbox"/> CRICKSTATS	An application to collect, manage, and analyze cricket players' perfor...	
<input type="checkbox"/> Data Manager	Use Data Manager to view limits, monitor usage, and manage recipes.	
<input type="checkbox"/> LightningBolt	Discover and manage business solutions designed for your industry.	
<input type="checkbox"/> LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	
<input type="checkbox"/> Queue Management	Create and manage queues for your business.	

Cancel Back Next

7. FUNCTIONAL & PERFORMANCE TESTING

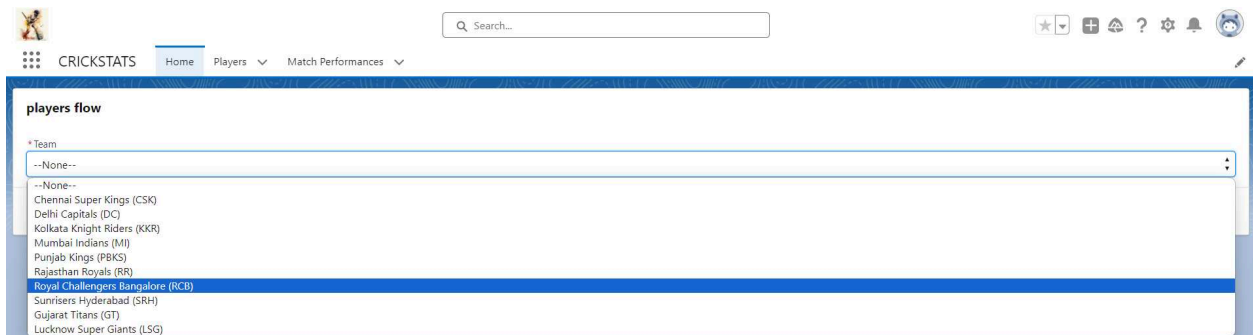
During the testing phase, screenshots were captured from the Salesforce Lightning user interface to verify the correct functioning of all implemented features in the CRICKSTATS system. These include record creation for Player and Match Performance objects; validation rule checks for mandatory fields, score limits, and input constraints; verification of record type behavior for Domestic and International match categories; and flow execution for automatic updating of player statistics and data consistency. The functionality of roll-up summary fields was also tested to ensure accurate calculation of total runs, wickets, averages, and performance metrics.

In addition, system performance was evaluated by monitoring response time during data entry, report generation, and dashboard loading. The application was tested under multiple user interactions to ensure stable performance without delays. Screenshots of generated reports and interactive dashboards were documented to confirm accurate data visualization, real-time updates, and reliable performance tracking. These testing

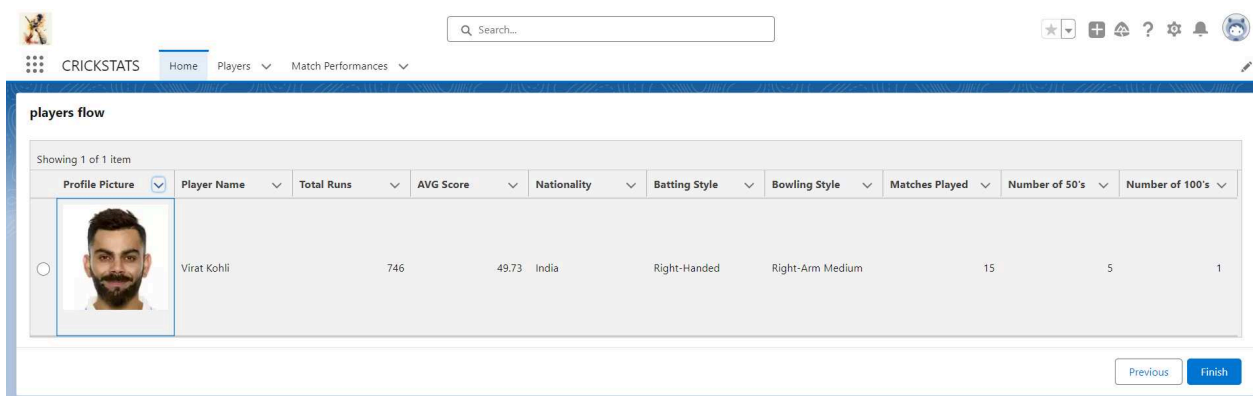
activities ensured that the CRICKSTATS platform met both functional and performance requirements and was ready for deployment.

NOTE : Enter some records in the Player Object and Match Performance Object to get the results.


1. Select one Team from the Picklist and Click **Next**.

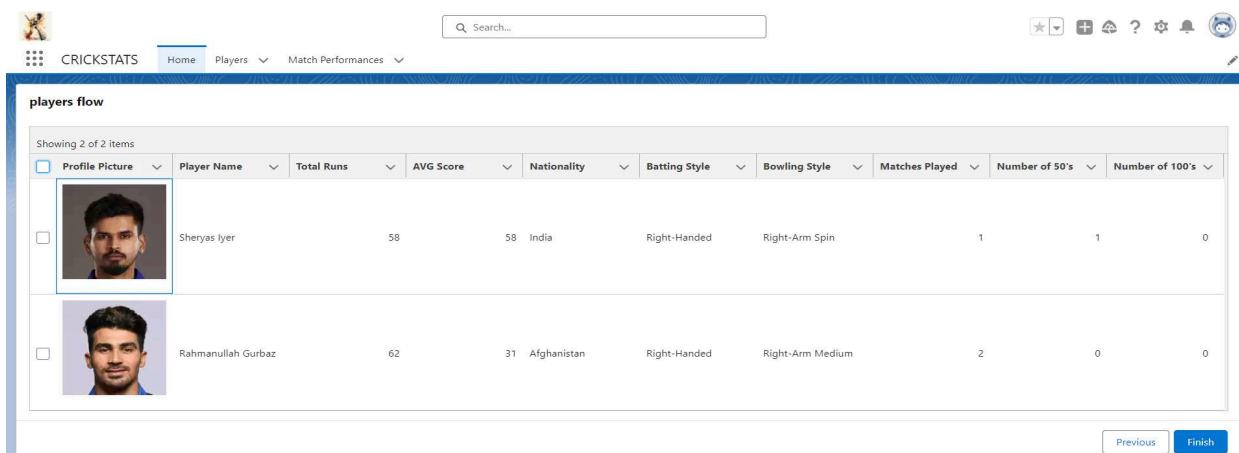


The screenshot shows the 'players flow' section of the CRICKSTATS application. At the top, there is a search bar and navigation links for Home, Players, and Match Performances. Below the navigation bar, the 'players flow' title is displayed. A dropdown menu is open, showing a list of teams. The 'Royal Challengers Bangalore (RCB)' team is selected and highlighted in blue. The list of teams includes: --None--, Chennai Super Kings (CSK), Delhi Capitals (DC), Kolkata Knight Riders (KKR), Mumbai Indians (MI), Punjab Kings (PBKS), Rajasthan Royals (RR), Royal Challengers Bangalore (RCB), Sunrisers Hyderabad (SRH), Gujarat Titans (GT), and Lucknow Super Giants (LSG).





The screenshot shows the 'players flow' section of the CRICKSTATS application. The table displays 1 item. The table has columns for Profile Picture, Player Name, Total Runs, AVG Score, Nationality, Batting Style, Bowling Style, Matches Played, Number of 50's, and Number of 100's. The data row shows Virat Kohli with 746 Total Runs, an AVG Score of 49.73, Nationality of India, Batting Style of Right-Handed, Bowling Style of Right-Arm Medium, 15 Matches Played, 5 Number of 50's, and 1 Number of 100's.

Profile Picture	Player Name	Total Runs	AVG Score	Nationality	Batting Style	Bowling Style	Matches Played	Number of 50's	Number of 100's
	Virat Kohli	746	49.73	India	Right-Handed	Right-Arm Medium	15	5	1



The screenshot shows the 'players flow' section of the CRICKSTATS application. The table displays 2 items. The table has columns for Profile Picture, Player Name, Total Runs, AVG Score, Nationality, Batting Style, Bowling Style, Matches Played, Number of 50's, and Number of 100's. The data rows show Shreyas Iyer with 58 Total Runs, an AVG Score of 58, Nationality of India, Batting Style of Right-Handed, Bowling Style of Right-Arm Spin, 1 Matches Played, 1 Number of 50's, and 0 Number of 100's. The second row shows Rahmanullah Gurbaz with 62 Total Runs, an AVG Score of 31, Nationality of Afghanistan, Batting Style of Right-Handed, Bowling Style of Right-Arm Medium, 2 Matches Played, 0 Number of 50's, and 0 Number of 100's.

Profile Picture	Player Name	Total Runs	AVG Score	Nationality	Batting Style	Bowling Style	Matches Played	Number of 50's	Number of 100's
	Shreyas Iyer	58	58	India	Right-Handed	Right-Arm Spin	1	1	0
	Rahmanullah Gurbaz	62	31	Afghanistan	Right-Handed	Right-Arm Medium	2	0	0

8. ADVANTAGES & DISADVANTAGES

Advantages

- Centralized system
- Real-time analytics
- Secure platform
- Scalable design
- Reduced manual work

Disadvantages

- Requires Salesforce license
- Internet dependency
- Limited offline access

9. Conclusion:

CRICKSTATS successfully implements a cloud-based cricket performance tracking system using Salesforce. The system automates data management, improves reporting accuracy, and supports informed decision-making.

The project demonstrates practical application of SDLC, Agile methodology, and CRM-based development.

10. FUTURE SCOPE

- Mobile application integration
- AI-based performance prediction

- Video analysis integration
- Player ranking system
- Public statistics portal
- Multi-league support

11. APPENDIX

- Salesforce Objects & Fields
- Manual match statistics
- Flow Configurations

Thank You