

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	
	A cricket team coach
I am:	Track player performance across matches
But:	I cannot get accurate statistics easily
Because:	Data is stored in different files and formats
😊 Frustrated and unsure about team selection	

PS-2	
	A team manager
I am:	Maintain complete player records
But:	It takes too much time to update and verify data
Because:	Most records are maintained manually
😊 Frustrated and unsure about team selection	

PS-3	
	A sports analyst
I am:	Analyze player trends and generate reports
But:	I face difficulty in comparing performances
Because:	There is no centralized analytics system
😊 Confused and dissatisfied.	

2.2 Empathy Map Canvas

Target Users

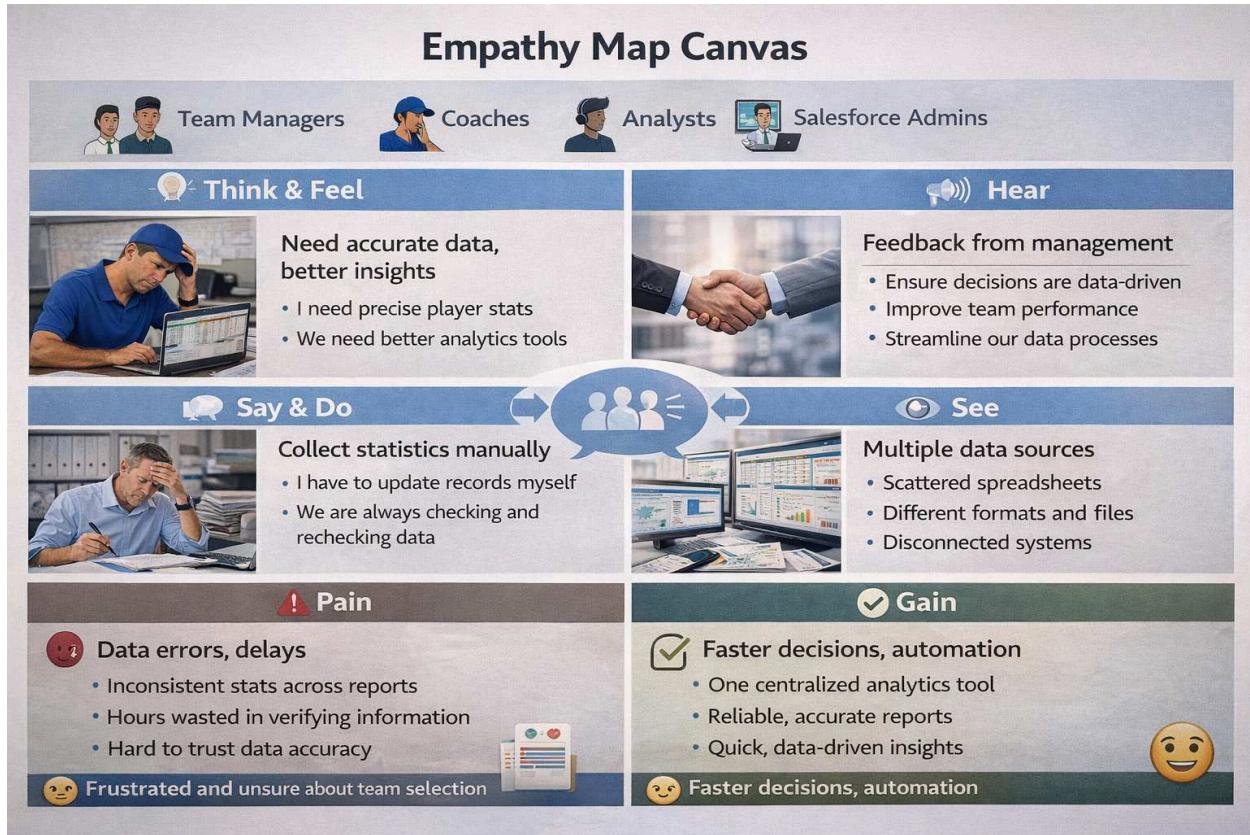
- Team Managers
- Coaches
- Analysts
- Salesforce Admins

Empathy Analysis

Aspect	Description
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- **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

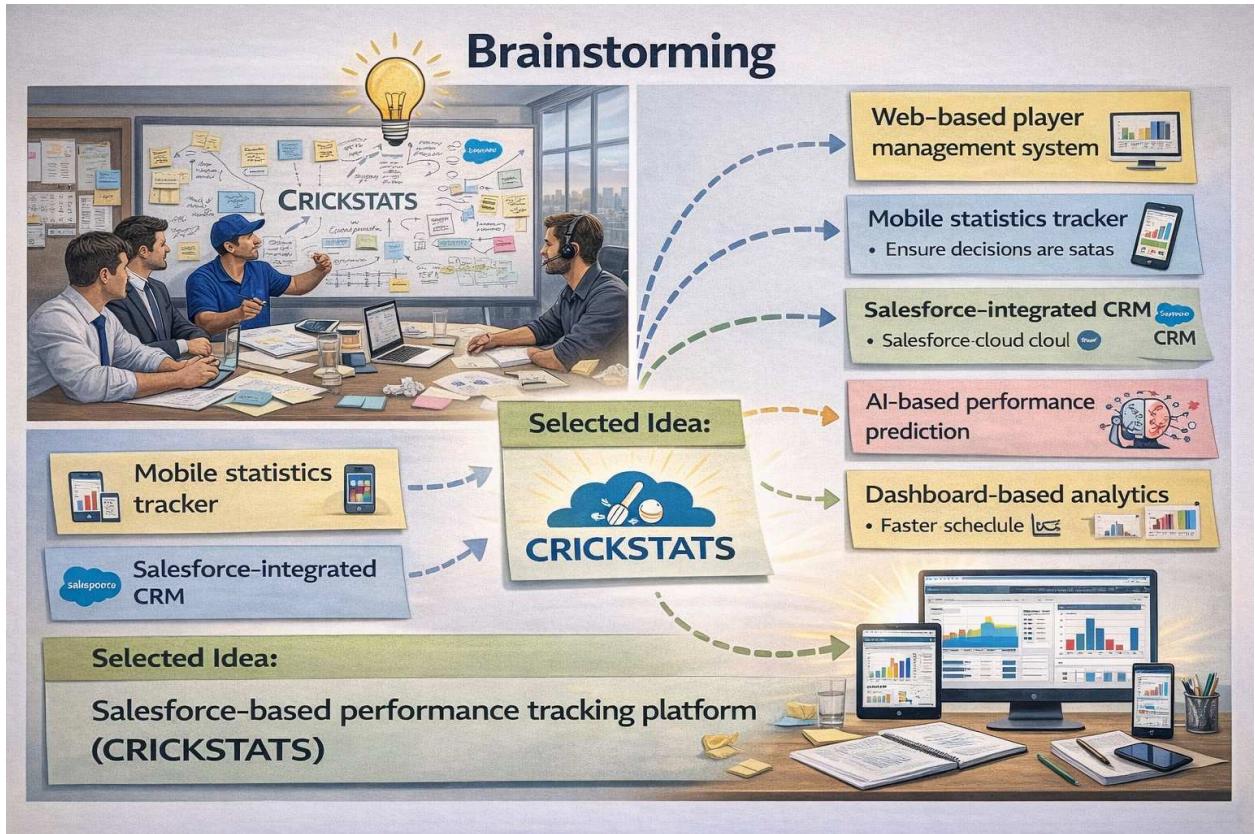


2.3 Brainstorming

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:

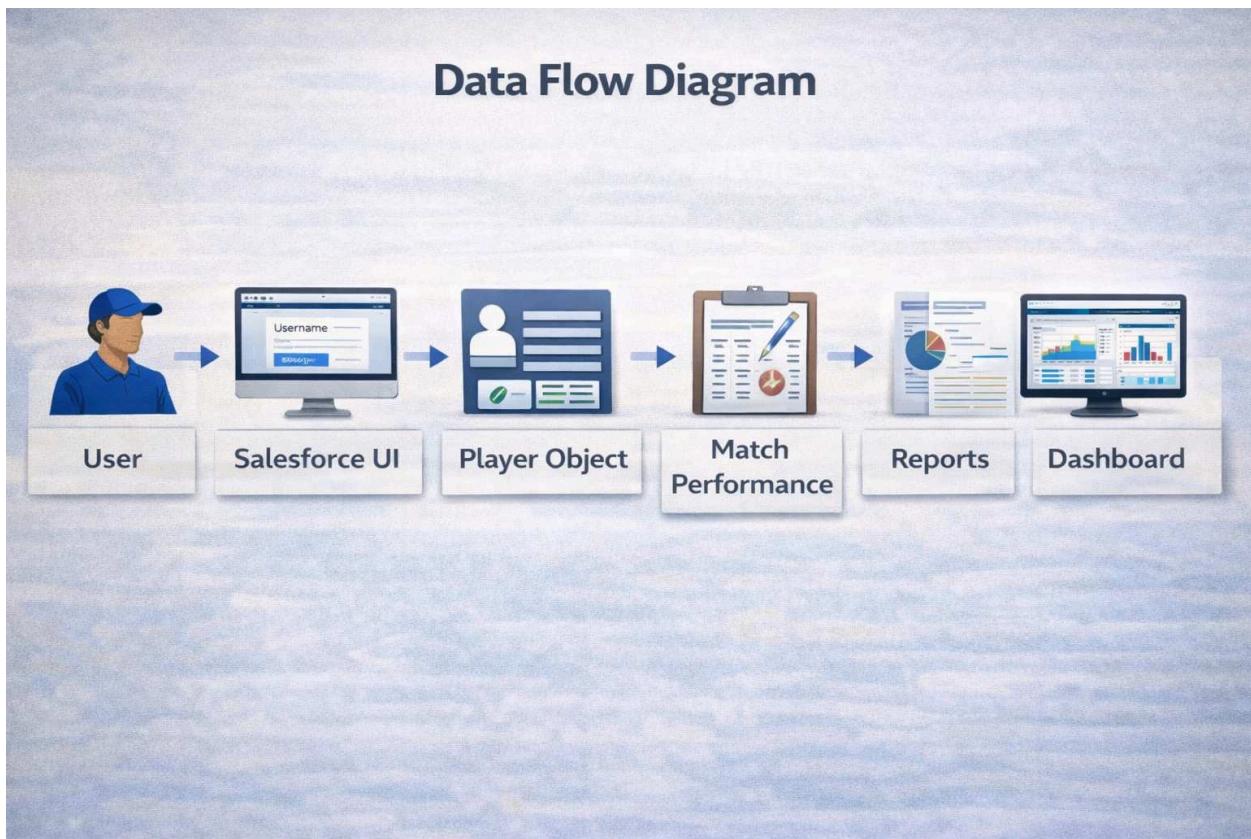
If CRICKSTATS is extended from one team to 50 teams, the system should still perform smoothly.

Salesforce cloud infrastructure automatically scales storage and processing.

3.3 Data Flow Diagram

Data Flow

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



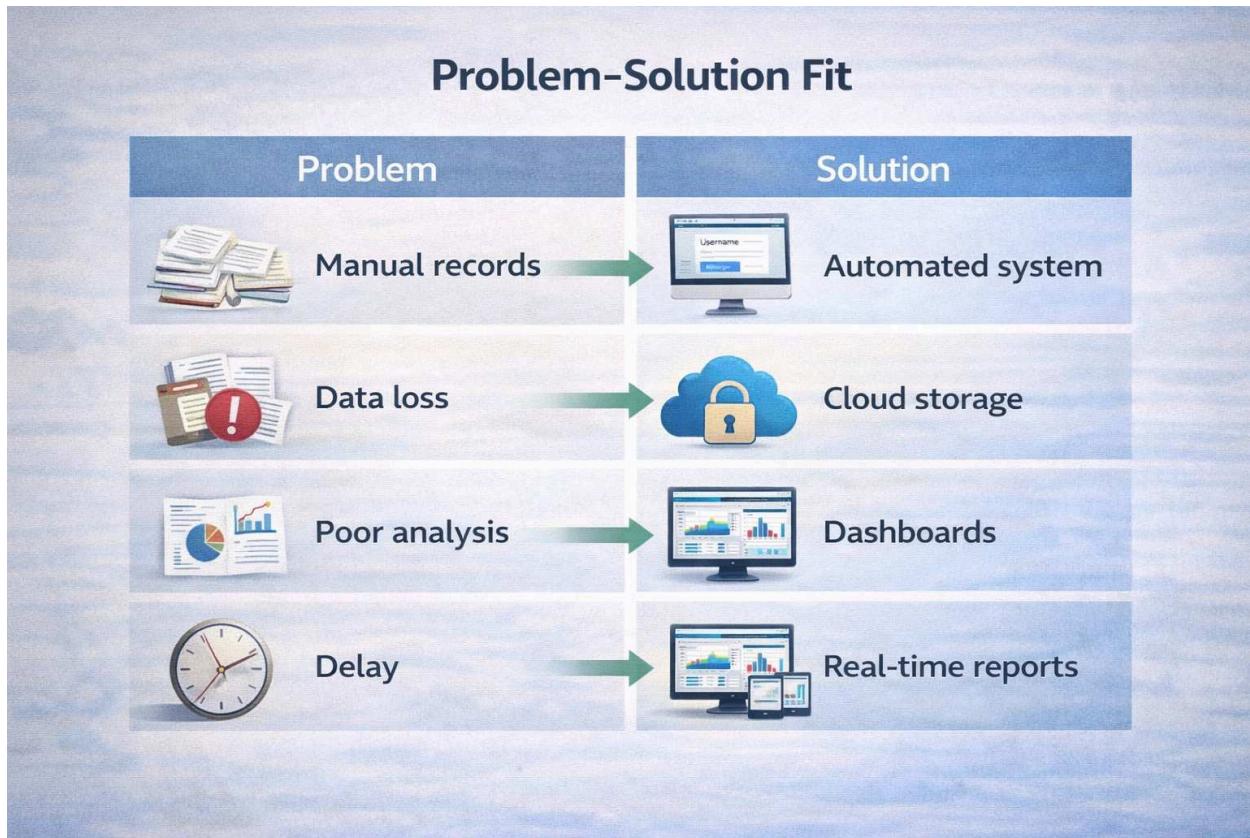
3.4 Technology Stack

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.



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

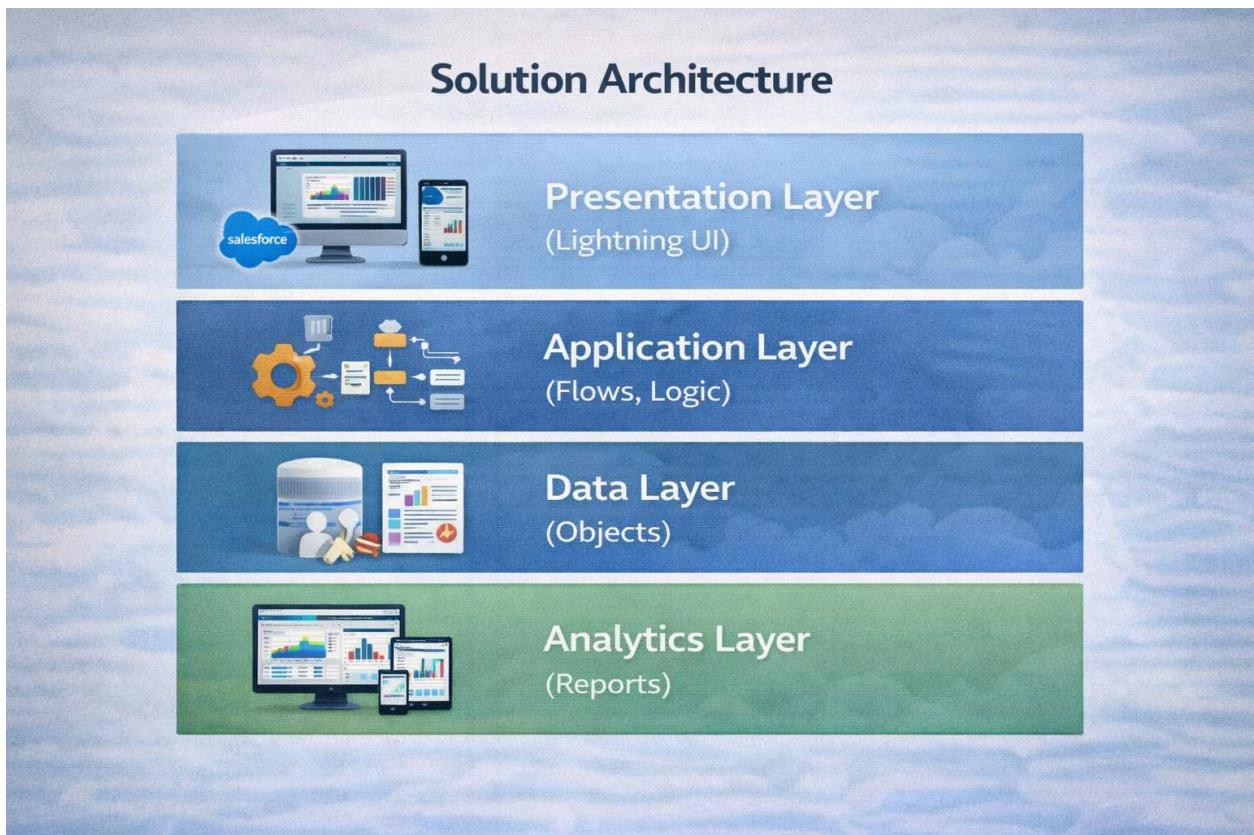
- Centralized database
- Live statistics
- Secure access

- 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

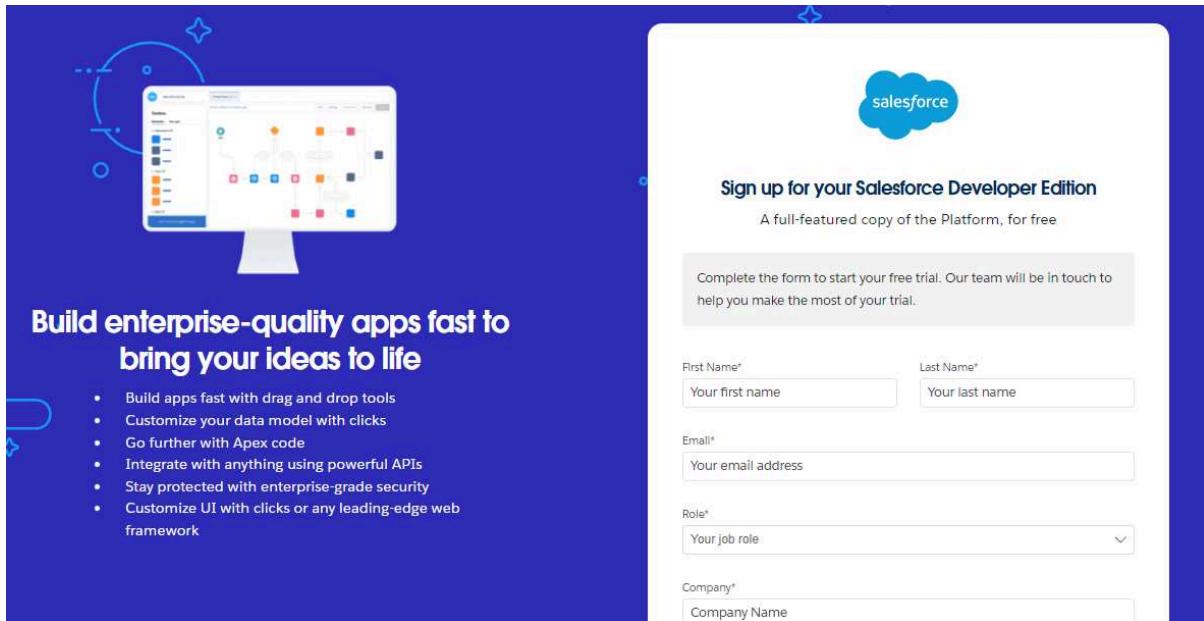
Implementation

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 :



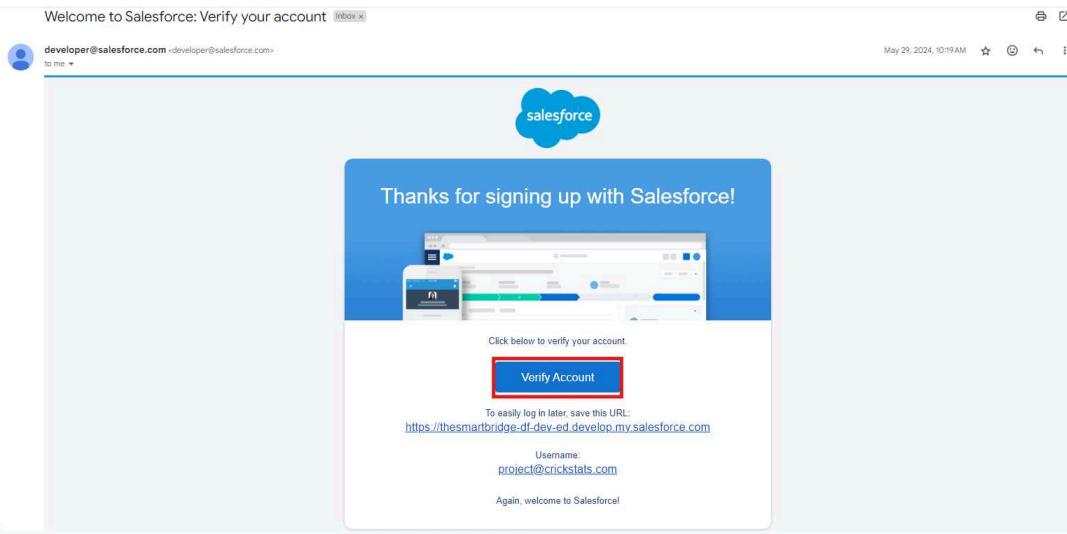
- 1) First name & Last name
- 2) Email
- 3) Role : Developer
- 4) Company : College or Company Name
- 5) County : India
- 6) Postal Code : pin code
- 7) Username : should be a combination of your name and company

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 :

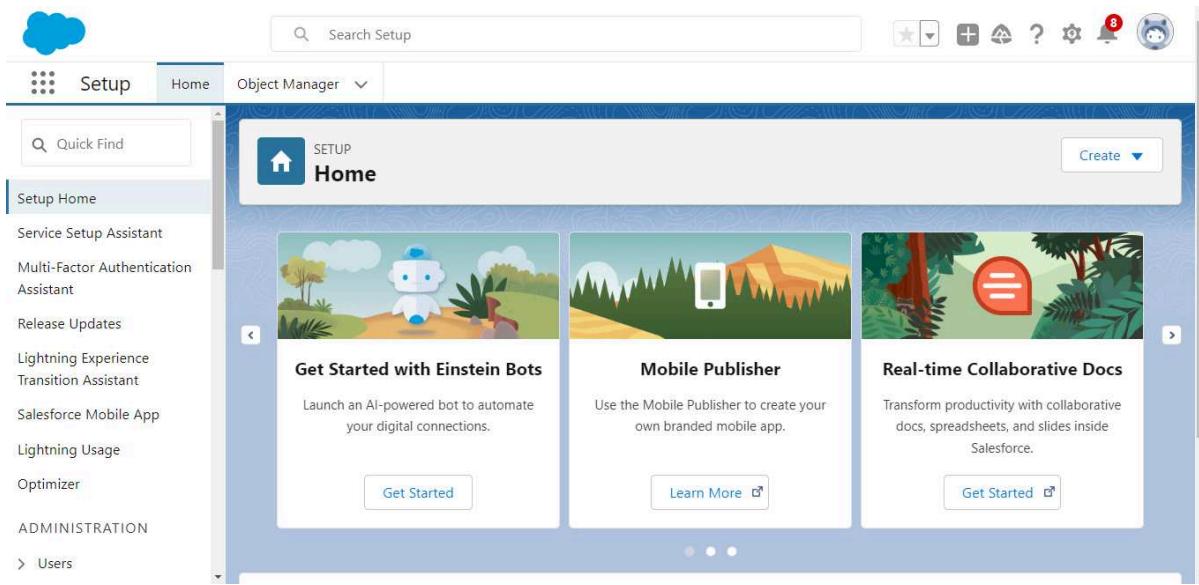
1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.
2. Click on Verify Account.



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

A screenshot of the "Change Your Password" page. The title is "Change Your Password". It asks for a new password for "lead@sb.com" and specifies that it must include at least 8 characters, 1 letter, and 1 number. A red box highlights the "New Password" input field, which contains "....." and is labeled "Good". Another red box highlights the "Confirm New Password" input field, which contains "....." and is labeled "Match". Below these are fields for "Security Question" (set to "In what city were you born?") and "Answer" (containing "asdfghjkl"). A red box highlights the "Change Password" button at the bottom.

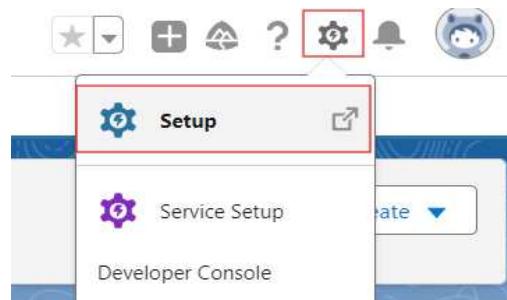
4. Then you will redirect to your salesforce setup page.



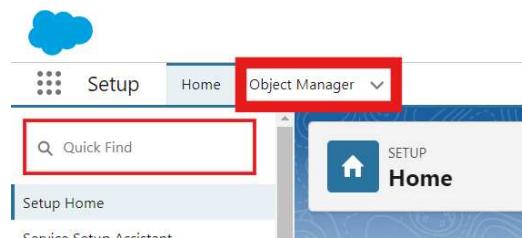
Milestone 2 - Object Creation

Activity 1 : Player Object

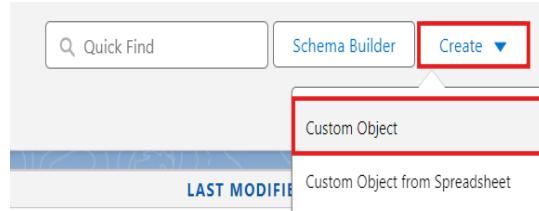
1. In your Salesforce org, click gear icon on the top left and select Setup to open Setup.



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.

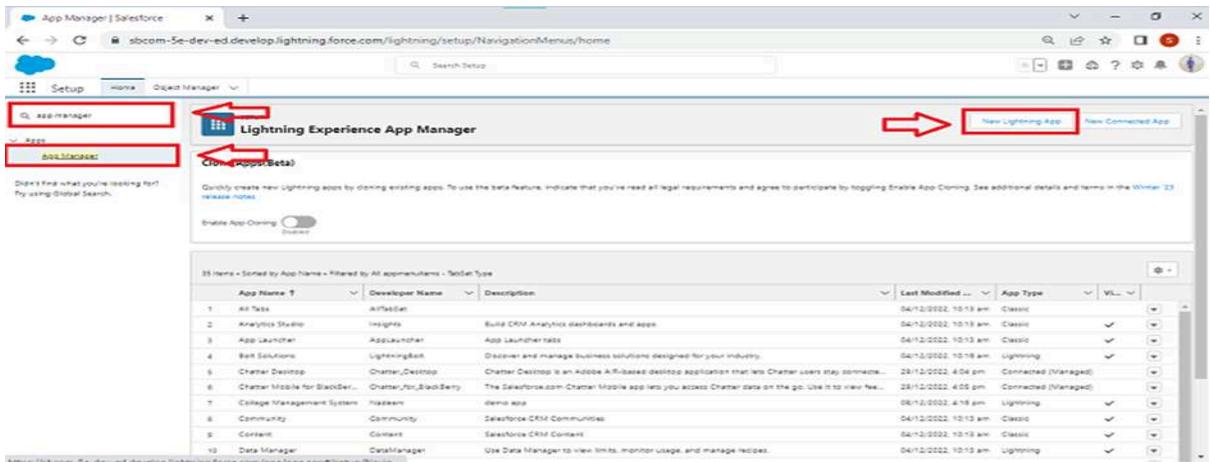
The screenshot shows the Salesforce Setup interface with the 'Tabs' search term highlighted in the top-left search bar. The main content area is titled 'Custom Tabs' and contains a table for 'Custom Object Tabs'. The table has columns for 'Action', 'Label', 'Tab Style', and 'Description'. It lists two tabs: 'Match Performances' (Style: Building Block) and 'Players' (Style: People). A red box highlights the 'Match Performances' row. Below the table are sections for 'Web Tabs', 'Visualforce Tabs', and 'Lightning Component Tabs', each with a note indicating no tabs have been defined.

Action	Label	Tab Style	Description
Edit Del	Match Performances	Building Block	
Edit Del	Players	People	

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.

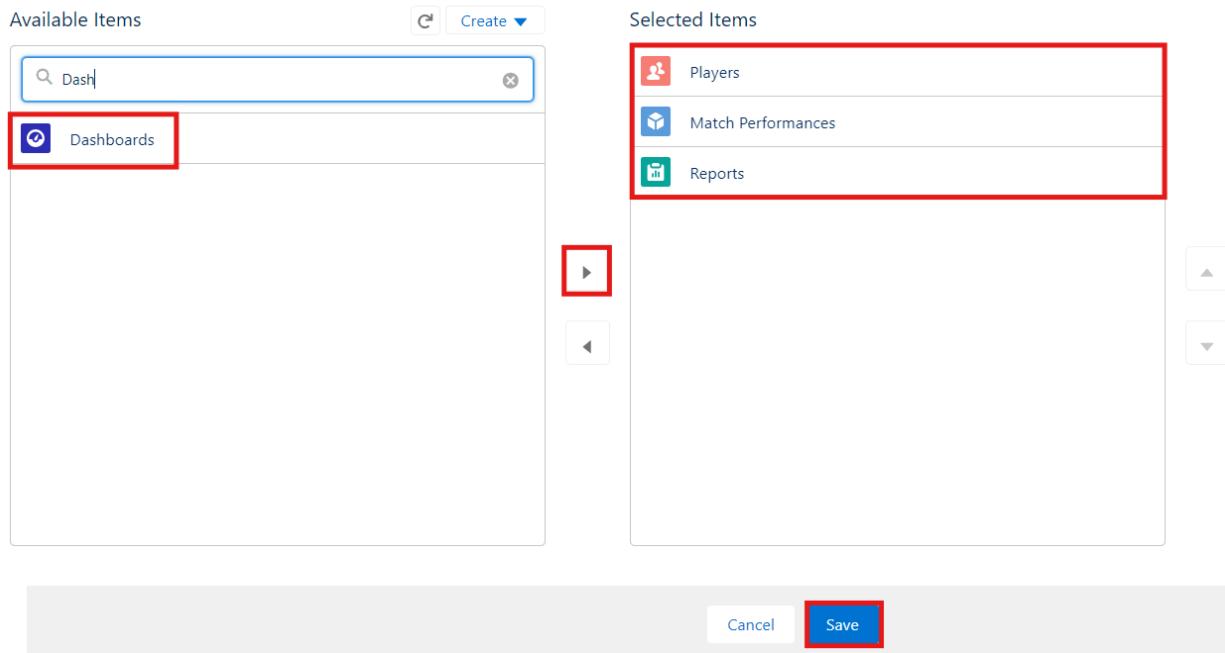
5. Navigation items

Select the created Custom Objects and required standard objects

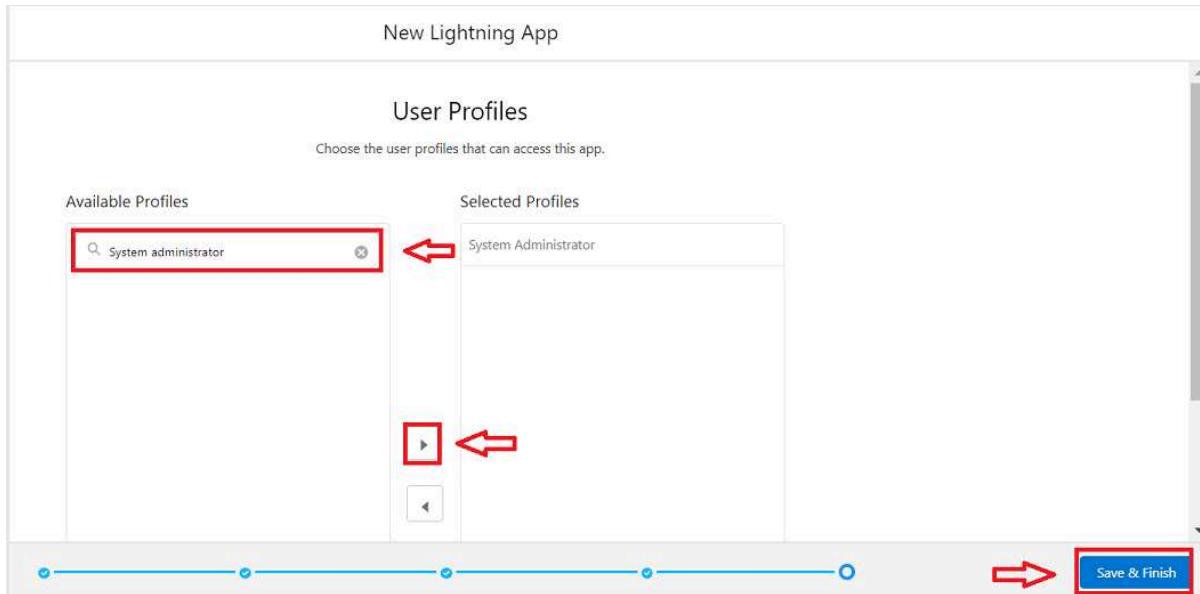
- Players
- Match Performances
- Reports
- Dashboards

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 rearrange items 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.



6. To Add User Profiles : System Administrator



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.

The screenshot shows the Salesforce setup interface for the 'Fabrication' object. The 'Fields & Relationships' tab is selected in the sidebar. On the right, a list of data types is shown with their descriptions. The 'Text' option is highlighted with a red box. Other options include Date, Date/Time, Email, Geolocation, Number, Percent, Phone, Picklist, Picklist (Multi-Select), Text Area, Text Area (Long), Text Area (Rich), Text (Encrypted), Time, and URL.

Data Type	Description
Date	Allows users to enter a date or pick a date from a popup calendar.
Date/Time	Allows users to enter a date and time, or pick a date from a popup calendar. When users click a date in the pop-up, that date and the current time are entered into the Date/Time field.
Email	Allows users to enter an email address, which is validated to ensure proper format. If this field is specified for a contact or lead, users can choose the address when clicking Send an Email. Note that custom email addresses cannot be used for mass emails.
Geolocation	Allows users to define locations. Includes latitude and longitude components, and can be used to calculate distance.
Number	Allows users to enter any number. Leading zeros are removed.
Percent	Allows users to enter a percentage number, for example, '10' and automatically adds the percent sign to the number.
Phone	Allows users to enter any phone number. Automatically formats it as a phone number.
Picklist	Allows users to select a value from a list you define.
Picklist (Multi-Select)	Allows users to select multiple values from a list you define.
Text	Allows users to enter any combination of letters and numbers.
Text Area	Allows users to enter up to 256 characters on separate lines.
Text Area (Long)	Allows users to enter up to 131,072 characters on separate lines.
Text Area (Rich)	Allows users to enter formatted text, add images and links. Up to 131,072 characters on separate lines.
Text (Encrypted)	Allows users to enter any combination of letters and numbers and store them in encrypted form.
Time	Allows users to enter a local time. For example, "2:40 PM", "14:40", "14:40:00", and "14:40:50 600" are all valid times for this field.
URL	Allows users to enter any valid website address. When users click on the field, the URL will open in a separate browser window.

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
)

The screenshot shows the Salesforce formula editor interface. At the top, there are tabs for "Simple Formula" and "Advanced Formula", with "Advanced Formula" selected. Below the tabs are buttons for "Insert Field" and "Insert Operator". The formula code area contains the following code:

```
AVG Score (Number) =
IF(
    Matches_Played__c > 0,
    Total_Runs__c / Matches_Played__c ,
    0
)
```

A red box highlights the entire formula body. At the bottom of the editor, there is a "Check Syntax" button and a status message: "No syntax errors in merge fields or functions. (Compiled size: 130 characters)".

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	Operator	Value	Operator	Value
Runs Scored	greater or equal	50			AND	
Runs Scored	less than	100			AND	
--None--	--None--		--None--	--None--	AND	
--None--	--None--		--None--	--None--	AND	
--None--	--None--		--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:
 Only records meeting certain criteria should be included in the calculation
 All records should be included in the calculation

Field	Operator	Value	AND
Runs Scored	greater or equal	100	AND
Runs Scored	less than	200	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.

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

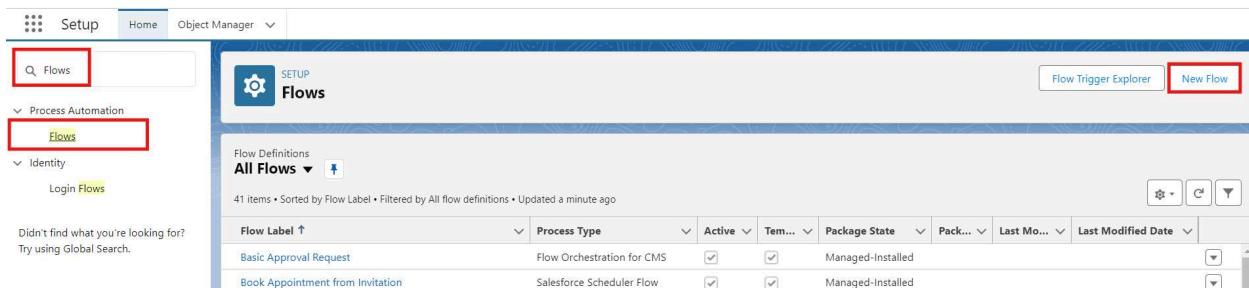
Summarized Object : Match Performances
Select Roll-up Type : SUM
Field To Aggregate : Runs Scored
Filter Criteria : All records should be included in the calculation.
Click on Next → Next → Save and new.

- 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.

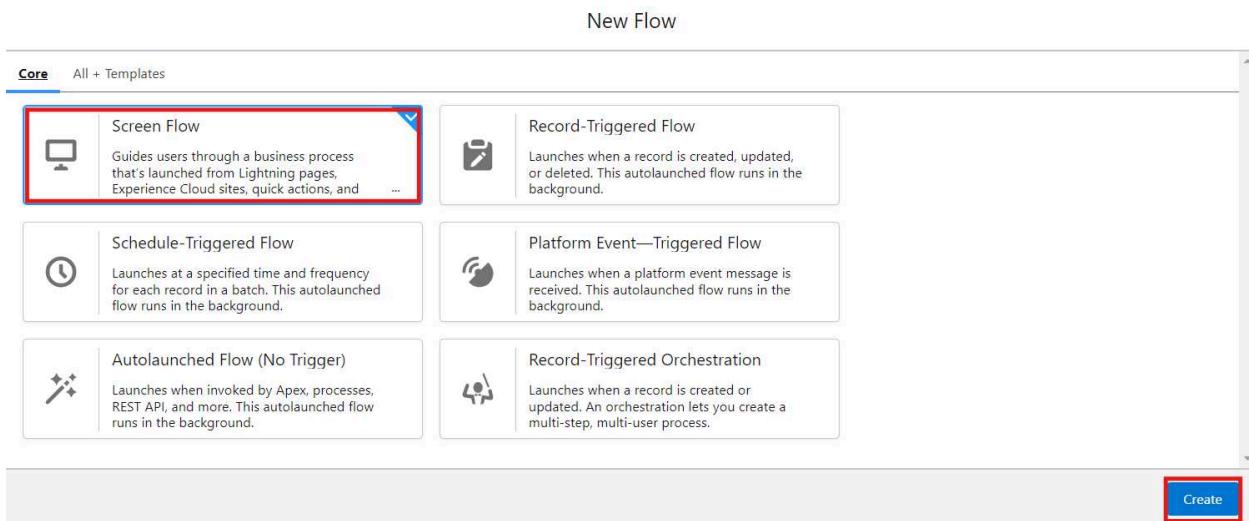
Milestone 7 : Flows

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

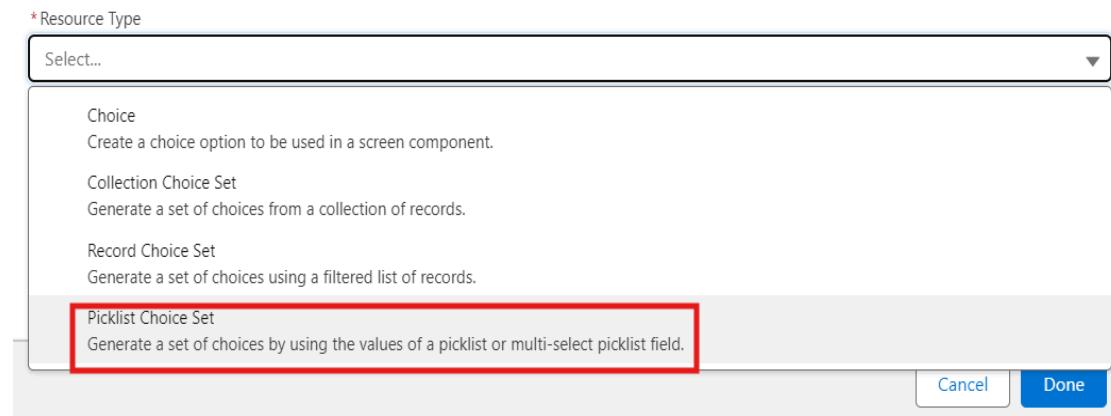
API : Team

From Component Pane on the left side select **Component Type : Picklist**

Data Type : Text

Choice : Click New Choice Resources

Resource Type : Picklist Choice Set



API Name : Team

Object : Player

Data Type : Picklist

Field : Team

Click Done.

New Choice Resource

The screenshot shows the "New Choice Resource" configuration page. It includes fields for "API Name" (Team), "Object" (Player), "Data Type" (Picklist), "Field" (Team__c), and "Sort Order" (Default Order of Field). The "Object" field has a dropdown arrow icon.

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	Operator	Value
Team_c	Equals	Aa dynamic

+ Add Condition

- 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

Components Fields

Data

Input (1)

Data Table

players flow

Data Table

0 items

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

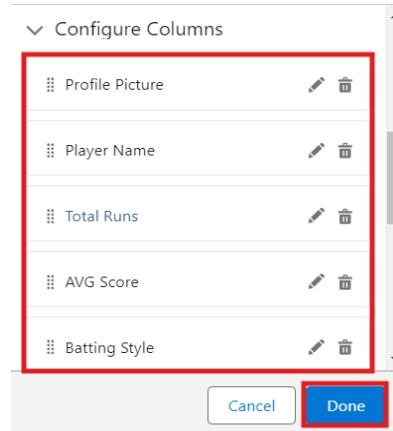
Players from Players Player__c

SCREEN COMPONENTS

Player_info_table Data Table

In Configure Columns : Add all the required Columns

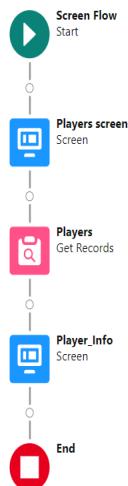
Profile Picture | Player Name | Total Runs | AVG Score | Batting Style | Bowling Style | Matches Played | Number of 50's | Number of 100's
 Click Done.



Click Save.

Flow Label : Player Flow
Flow API Name : Player_Flow

Auto-Layout ▾ Version 4: Inactive—Last modified 13 minutes ago Run Debug Activate Save As **Save**



Save the flow

* Flow Label

Player Flow

* Flow API Name

Player_Flow

Description

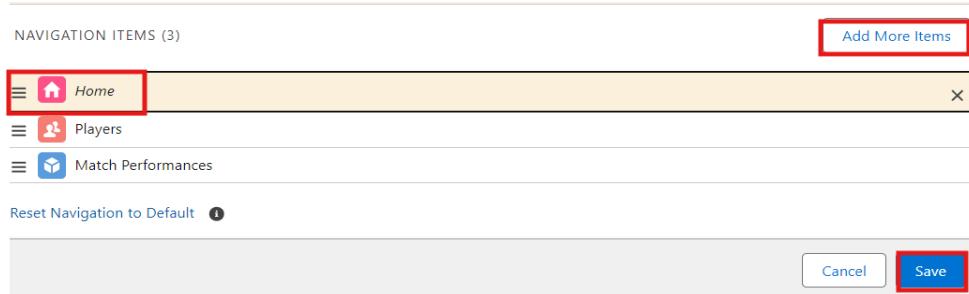
Show Advanced

Cancel

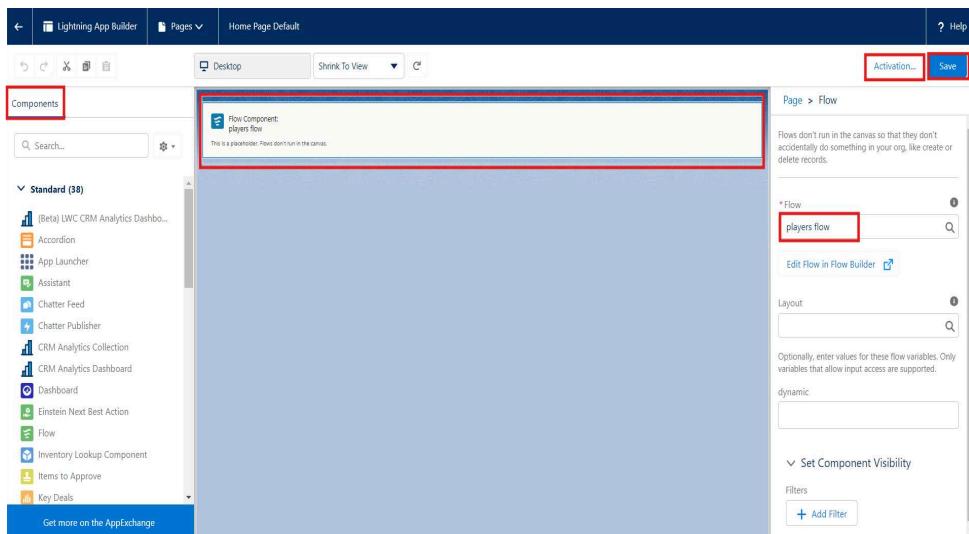
Save

Activity 2 : Flow on Home Page

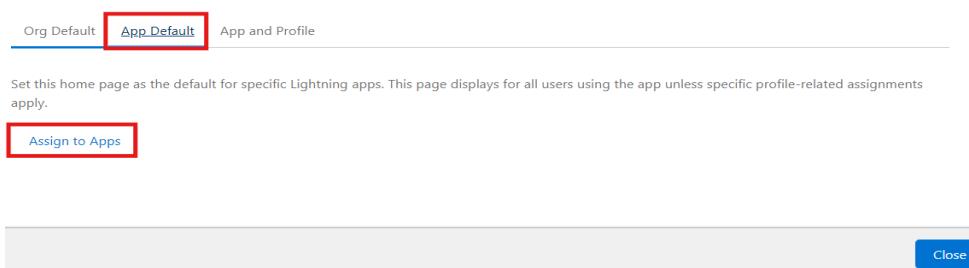
1. On your CRICKSTATS Application on the top right of the Navigation Bar click on **Personalize your nav bar icon (Pencil Icon)** and Add Home Page and click Save.



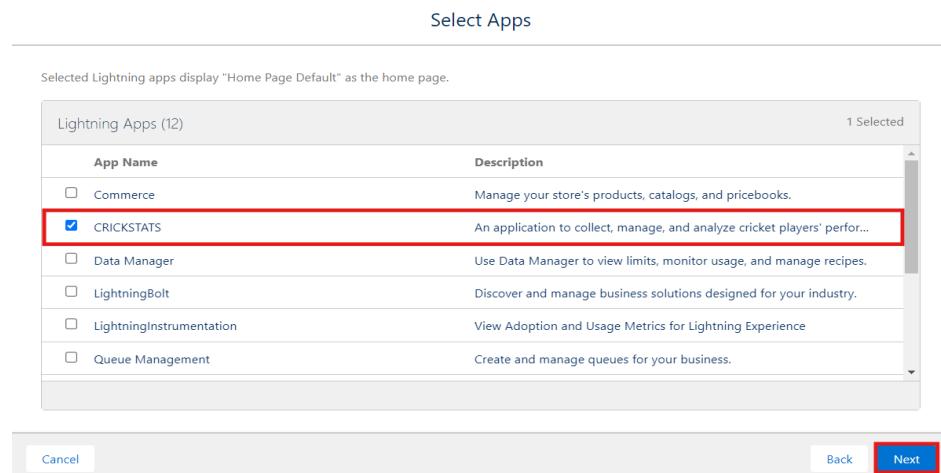
2. Remove all other components and Add **FLOW** component from the standard components on the left side.
3. **Flow : Players Flow**



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



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



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**.

CRICKSTATS

Players flow

*Team
--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)
Lucknow Super Giants (LSG)

CRICKSTATS

players flow

Showing 1 of 1 item

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

Previous Finish

CRICKSTATS

players flow

Showing 2 of 2 items

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

Previous Finish

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