





## 1. Overview of the project

This project is focused on developing a CRM application for laptop rentals, designed to address the primary challenge of efficiently managing customer relationships and rental transactions. The goal is to deliver a comprehensive solution by leveraging customer relationship management (CRM) technology to enhance customer experiences, optimize store operations, and improve overall efficiency.

## 2. Objectives

#### **Business Goals**

- 1. Increase Customer Acquisition: Achieve a 20% increase in new customer sign-ups within the first six months of launching the CRM application.
- 2. Enhance Customer Retention: Improve customer retention rates by 15% over the next year through personalized communication and targeted marketing campaigns.
- 3. Optimize Rental Operations: Reduce the average time taken to process rental transactions by 30%, streamlining operations and improving service delivery.
- 4. Boost Revenue: Increase overall revenue from laptop rentals by 25% within the first year by leveraging data analytics to identify trends and optimize pricing strategies.

#### Specific Outcomes

- 1. CRM Application Development: Deliver a fully functional CRM application tailored for laptop rentals, including features for customer management, rental tracking, and reporting.
- 2. Automated Communication System: Implement an automated email communication system that sends personalized messages to potential customers, resulting in a 50% increase in engagement rates.
- 3. Data Analytics Dashboard: Create a user-friendly dashboard that provides real-time insights into rental performance, customer behavior, and sales trends, enabling data-driven decisionmaking.
- 4. User Training Program: Develop and conduct a training program for staff on how to effectively use the CRM application, ensuring at least 90% of employees are proficient within two months of launch.

# 3. Salesforce Key Features and Concepts Utilized

In our Salesforce project, we leveraged several key features and concepts that significantly enhanced our ability to manage customer relationships, automate processes, and analyze data effectively. Below are the main functionalities we utilized:

- 1. Account and Contact Management:
  - We utilized Salesforce's robust account and contact management features to maintain comprehensive records of customer interactions. This allowed us to track all communications, preferences, and history, enhancing our ability to provide personalized service.





#### 2. Opportunity Management:

The opportunity management functionality enabled us to oversee sales deals throughout their lifecycle. We could track stages of each opportunity, ensuring that our sales team was equipped with the information needed to close deals successfully.

### 3. Reports and Dashboards:

We created various reports and dashboards to visualize our data effectively. This
included tabular, summary, matrix, and joined reports that helped us analyze trends and
measure performance metrics in real-time. Dashboards provided a consolidated view
of KPIs, enabling quick decision-making.

#### 4. Automation with Flows:

 Salesforce Flows were implemented to automate business processes such as data entry and updates. This included screen flows for user interactions and autolaunched flows for background processes, streamlining operations and reducing manual effort.

### 5. Apex Programming:

 We utilized Apex to add custom business logic where necessary, such as creating triggers for automating actions based on specific events (e.g., record creation or updates). This allowed us to tailor the platform to our unique business requirements.

#### 6. User Profiles and Roles:

 User profiles were configured to define what actions users could perform within the system, while roles established visibility access at the record level. This ensured that sensitive data was protected while allowing appropriate access based on job functions.

#### 7. Validation Rules:

 Validation rules were implemented to maintain data integrity by ensuring that users entered valid information before saving records. For example, we created rules that required either a phone number or email address in the consumer object.

### 8. Custom Objects and Fields:

 We created custom objects and fields tailored to our specific business needs, allowing for enhanced data tracking and reporting capabilities beyond standard Salesforce functionality.

#### 9. Integration Capabilities:

 The integration features of Salesforce allowed us to connect with other applications used within our organization, facilitating seamless data flow between systems and enhancing overall operational efficiency.

#### 10. Scalability and Customization:

o Salesforce's scalability enabled us to adapt the platform as our business grew, ensuring that we could continue to meet evolving needs without significant reconfiguration.





## 4. Detailed Steps to Solution Design

### 1. Object Creation

- Navigate to Object Manager in Setup to create new custom objects.
- Create the Total Laptop object to store information about laptops available for rent.
- Create the consumer object to manage customer details and interactions.
- Create the Laptop Booking object to track rental transactions and bookings.
- Create the Billing Process object to handle billing information related to rentals.

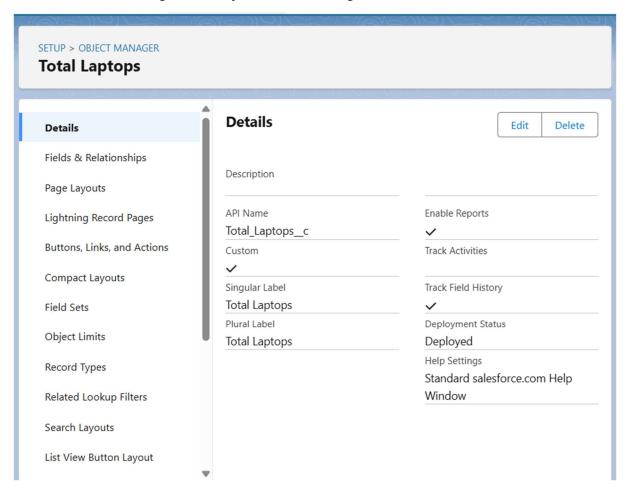


Fig 1. Total laptops object







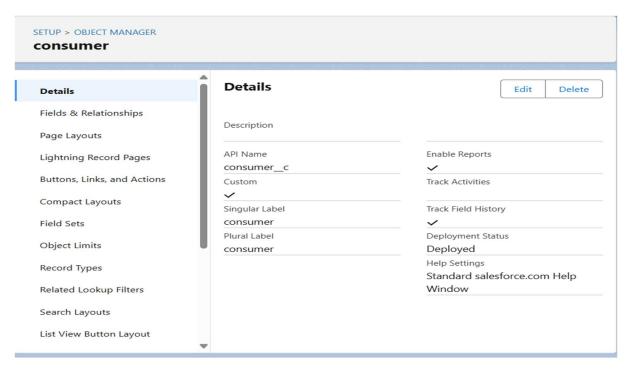


Fig 2. Consumer object

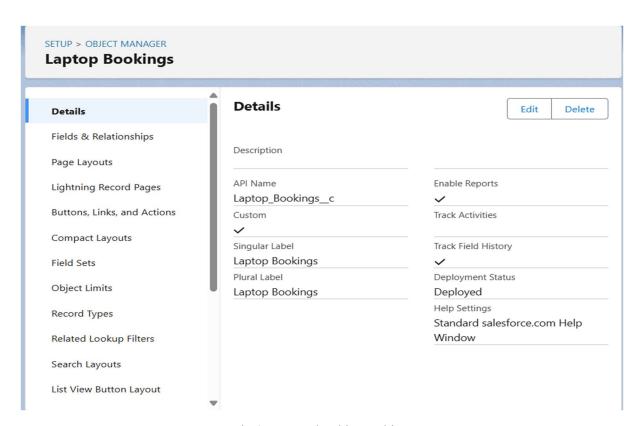


Fig 3. Laptop booking's object





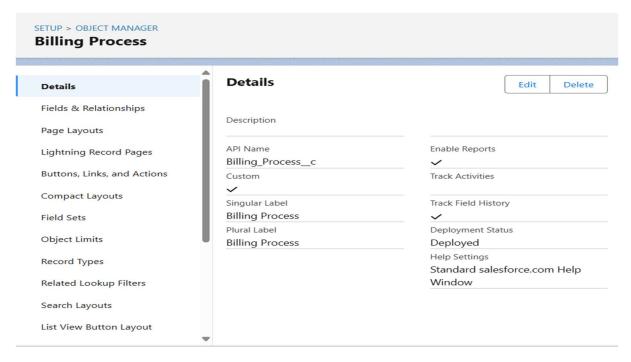


fig 4. Billing process object

### 2. Creating Tabs

- In Setup, go to Tabs and click on "New" to create custom tabs for each of your objects.
- Create a tab for the Total Laptop, Customer, Laptop Booking, and Billing Process objects for easy navigation.
- Choose appropriate tab styles and labels that align with user expectations.

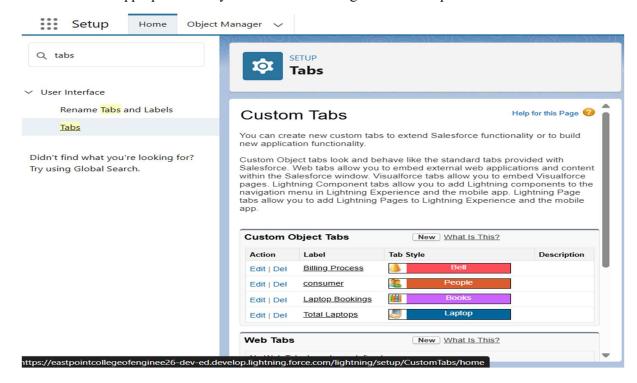


Fig 5. Creating tabs for each object





## 3. Creating a Lightning App

- Navigate to App Manager in Setup and click on "New Lightning App".
- Enter the app name (e.g., "Laptop Rentals") and configure app options such as navigation items.
- Add relevant tabs (Total Laptop, Customer, Laptop Booking, Billing Process) to the app.
- Save the app configuration and ensure it is accessible to users through their profiles.

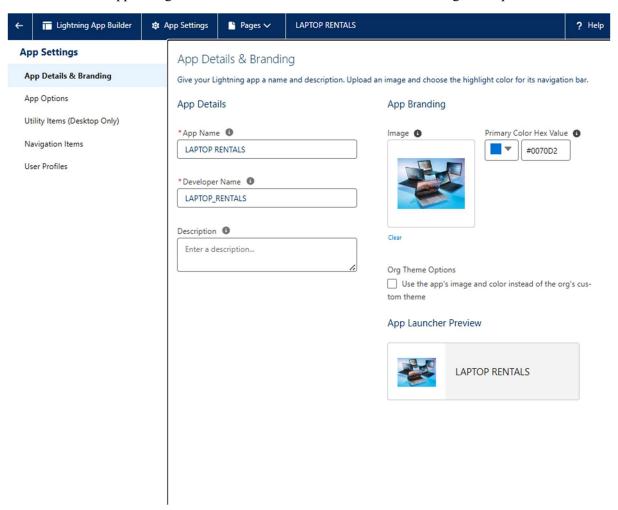


Fig 6. Lightning app creation





### 4. Creating Fields

- For each object created (Customer, Laptop Booking, Billing Process), navigate to the object's field settings in Object Manager.
- Add necessary fields such as phone number in the Customer object and rental dates in Laptop Booking.
- Establish relationships between objects where applicable (e.g., linking Laptop Booking with Total Laptop).
- Document field specifications including data types and validation rules.

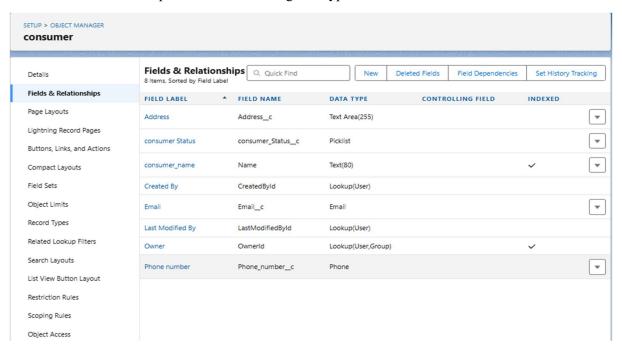


Fig 7.Consumer fields and relationship







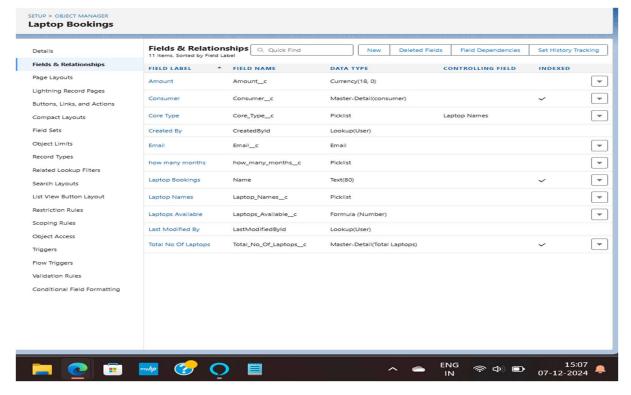


Fig 8. Laptop booking fields and relationships

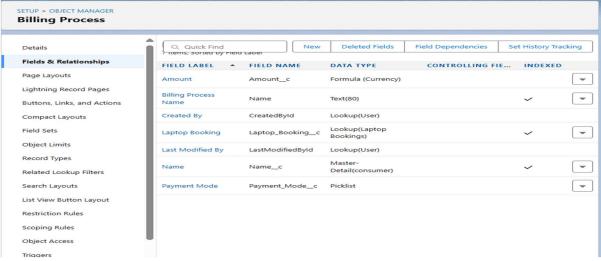


Fig 9. Billing process Fields and relationships

#### 5. Validation Rule Creation

- In Object Manager, select the Consumer object and navigate to Validation Rules.
- Click on "New" to create a validation rule that ensures either a phone number or email is provided before saving records.
- Use the formula: OR(ISBLANK(phone\_number\_\_c), ISBLANK(email\_\_c)) for validation logic.
- Provide an error message that guides users on correcting their input if validation fails.





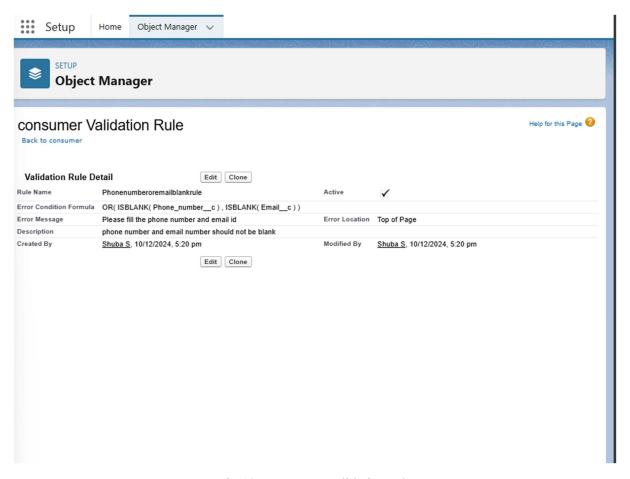


Fig 10. Consumer validation rule

### 6. Profile Creation

- Go to Profiles in Setup and create new profiles such as Owner Profile and Agent Profile based on user roles.
- Define permissions for each profile regarding object access, field visibility, and record types.
- Assign users to these profiles based on their job functions within the organization.
- Save profile settings and ensure they align with organizational security policies.

#### 7. Role Hierarchy Creation

- Navigate to Roles in Setup and click on "Set Up Roles".
- Create an Owner role that defines visibility access for users managing laptop rentals.
- Establish hierarchy levels as necessary (e.g., CEO > owner > Agent).
- Ensure that roles are assigned correctly so that data visibility aligns with organizational structure.





#### 8. User Creation

- In Setup, go to Users and click on "New User" to create user accounts for team members.
- Fill out user details such as name, email address, role assignment, and profile selection.
- Set usernames and passwords according to organizational standards for security.
- Save user accounts and notify users of their login credentials.

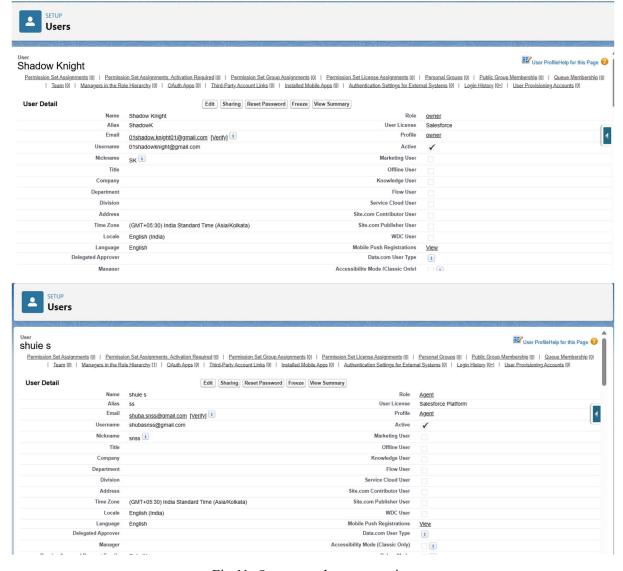


Fig 11. Owners and agent creation

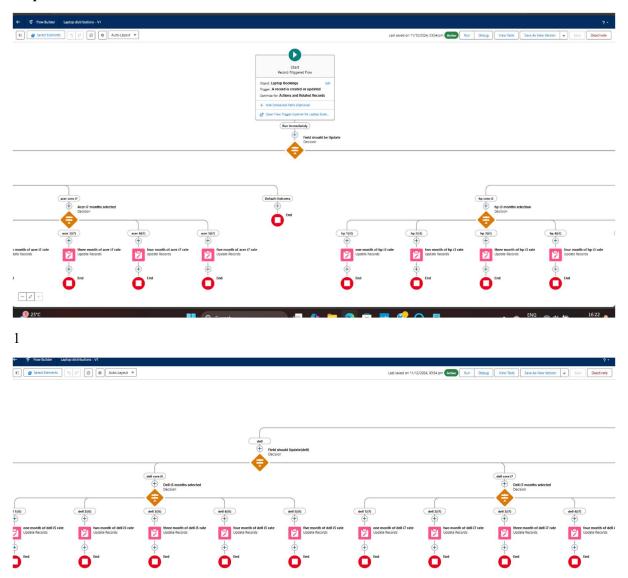
#### 9. Flow Creation

- Navigate to Flows in Setup and click on "New Flow" to create flows for automating processes related to laptop rentals.
- Create specific flows for different laptop brands (e.g., Dell, Acer, HP, Mac) that automate data entry or updates based on user selections.
- Define flow elements such as screens for user input or decision points based on criteria.
- Test each flow thoroughly before deployment.





# Steps are as follows:

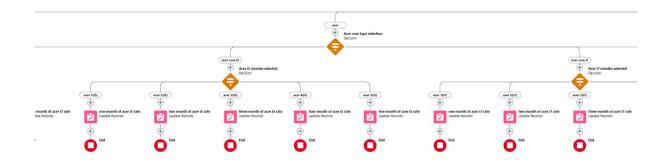


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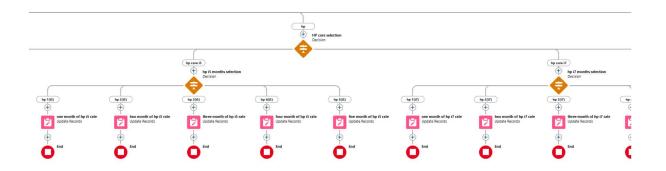




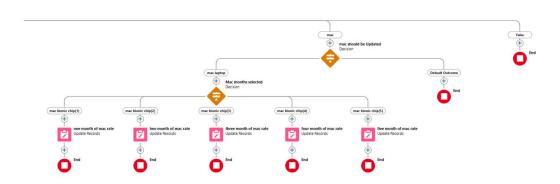


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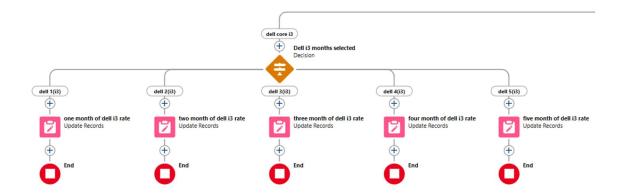


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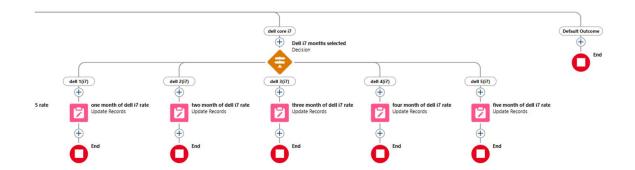




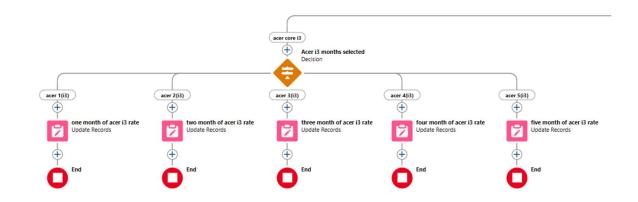








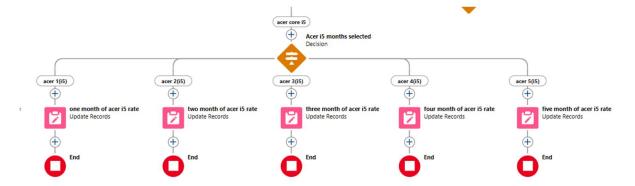
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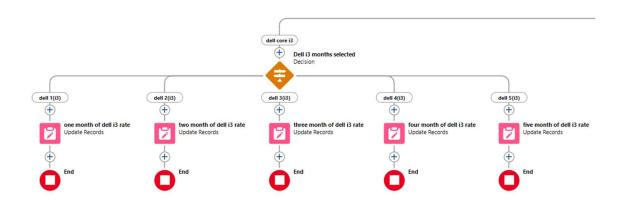






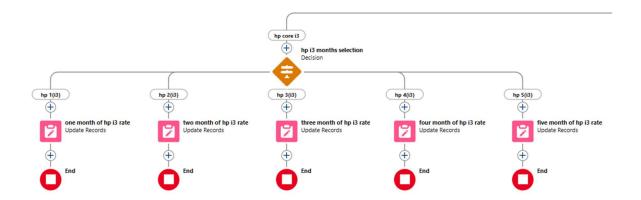


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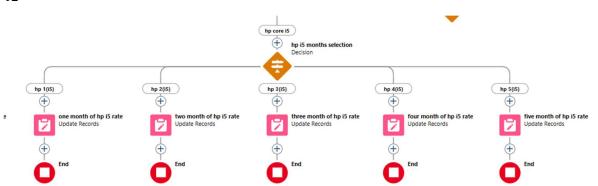






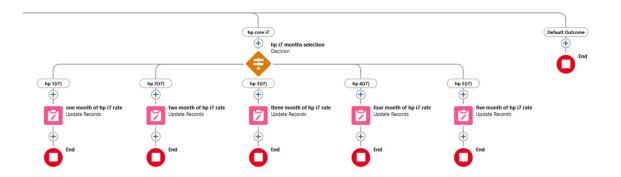


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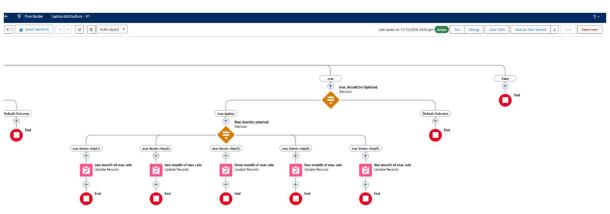








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#### 10. Report Creation

- Go to the Reports tab and click "New Report" to create reports based on relevant objects
- Use filters and groupings as needed to summarize data effectively
- Save reports with meaningful names and descriptions for easy identification by users.
- Share reports with stakeholders by setting appropriate sharing settings.

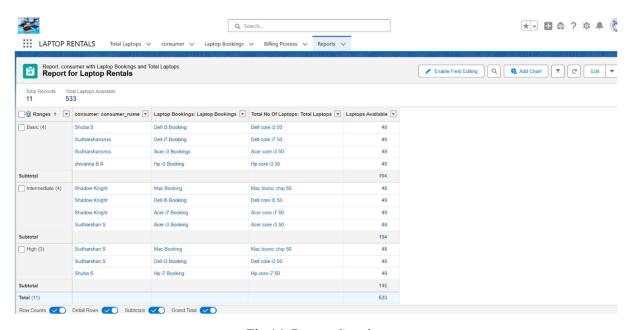


Fig 14. Report Creation

#### 11. Dashboard Creation

- Navigate to the Dashboards tab in Salesforce and click "New Dashboard" to create a visual representation of key metrics.
- Add components such as charts or tables sourced from previously created reports.
- Organize components logically within the dashboard layout for clarity.
- Save dashboards in folders accessible by relevant user profiles for ongoing monitoring of performance metrics.





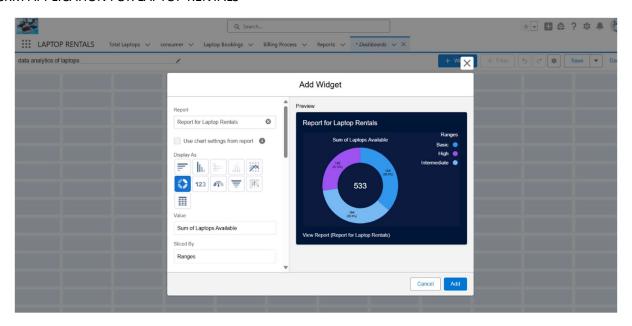


Fig 15. Adding Widget

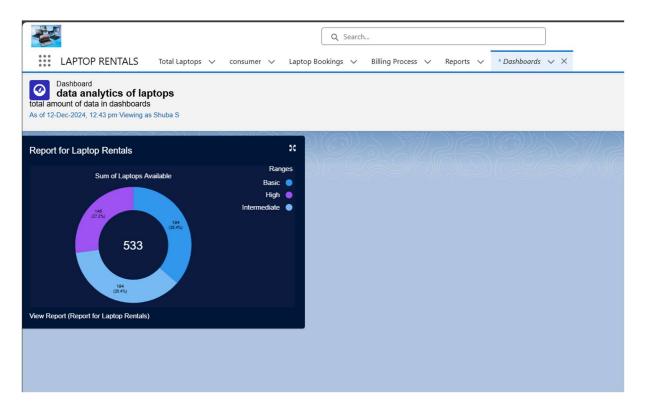


Fig 16. Dashboard of Data analytics of laptops





## 5. Testing and Validation

Apex Class and Trigger Creation

- In Setup, navigate to Apex Classes and create an Apex trigger that responds to DML events on relevant objects (e.g., Laptop Booking).
- Write trigger logic that handles actions such as sending notifications or updating related records upon changes.
- Implement handler classes if necessary for better organization of code logic.
- Test triggers using unit tests within Salesforce's testing framework.



Fig 12. Class Laptop booking handler



Fig 13. Laptop booking trigger





# 6. Key Scenarios Addressed by Salesforce in the Implementation Project

In our Salesforce implementation project, we focused on several important scenarios to ensure the platform meets our business needs effectively. Here are the main use cases we addressed:

- 1. Managing Customer Relationships:
- Salesforce helps us keep track of customer interactions, leads, and opportunities in one place, improving our ability to serve customers.
- 2. Automating Business Processes:
- We used Salesforce Flows and triggers to automate tasks like laptop bookings and billing, which reduces manual work and errors.
- 3. Ensuring Data Accuracy:
- Validation rules were set up to make sure that important information, like phone numbers or emails, is entered correctly when creating records.
- 4. Custom Reporting and Analytics:
- We created reports and dashboards in Salesforce to provide real-time insights into sales performance, helping us make better decisions.
- 5. Controlling User Access:
- We defined profiles and roles to manage who can see and edit different records, ensuring sensitive information is protected while allowing necessary access.
- 6. Scalability for Future Growth:
- The system was designed to be flexible so we can easily add new features or objects as our business grows.

## 7. Conclusion

In this Salesforce project, we successfully built a system that greatly improves how we manage our customers and run our operations. We created a solid way to track customer interactions, leads, and opportunities, which has helped us serve our customers better.

- We automated important tasks like laptop bookings and billing using Salesforce Flows and Apex triggers. This automation has made our processes faster and reduced mistakes. We also set up validation rules to ensure that the data entered into the system is accurate and trustworthy.
- Our work on reporting and analytics led to the creation of custom reports and dashboards that give us real-time insights into sales performance. This helps us make informed decisions quickly.
- Additionally, we established user profiles and roles to control who can access sensitive information, ensuring that data is protected while still allowing necessary access for team members. The system was designed to be flexible, so we can easily add new features as our business grows.
- Overall, this project has provided us with a strong foundation for using Salesforce effectively. It
  positions our organization to respond well to changing needs and enhances our ability to serve our
  customers in the future.