Project Executable Files

This phase outlines the actual Salesforce configurations, data, and outcomes used and generated during the execution of your project: "A CRM Application for Public Transport Management System."It ensures that all key project elements—objects, data, and output—are traceable and reusable for future reference or assessment. Where practical configurations and working modules of the project are documented for clarity, replication, and validation.

♦ 1. Project Files

Project Executable Files

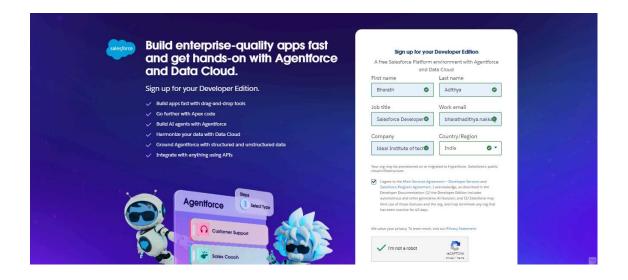
The following project files were executed in the Salesforce Developer Org:

- Milestone 1: Developer Account Setup
- Milestone 2: Object Creation
- Milestone 3: Tab Creation
- Milestone 4: Lightning App Setup
- Milestone 5: Field Creation
- Milestone 6: Page Layouts
- Milestone 7: Validation Rules
- Milestone 8: Flow Setup
- Milestone 9: Apex Trigger
- Milestone 10: Reports
- Milestone 11: Dashboards
- Milestone 12: Final Review

List of Milestone Tasks with Supporting Screenshots and Descriptions

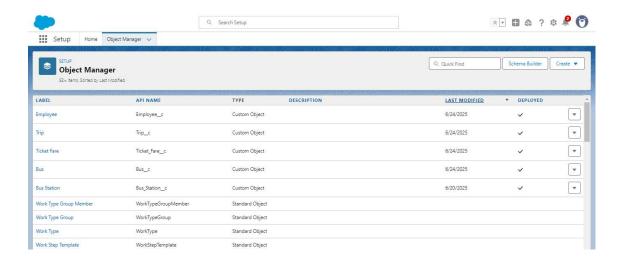
Milestone 1: Developer Account Setup

- Created and activated a Salesforce Developer Org.
- Setup the base environment for CRM development.
- Verified access to Object Manager, Flow Builder, and App Builder.



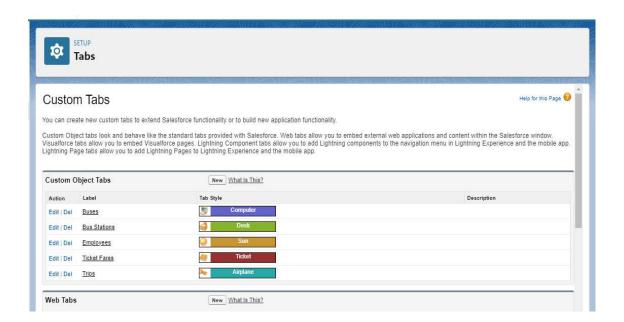
Milestone 2: Object Creation

- Created 5 custom objects:
 - o Bus Station, Bus, Employee, Trip, and Ticket Fare.
- Established foundational schema for RTC data tracking.
- Configured relationships using lookup fields.



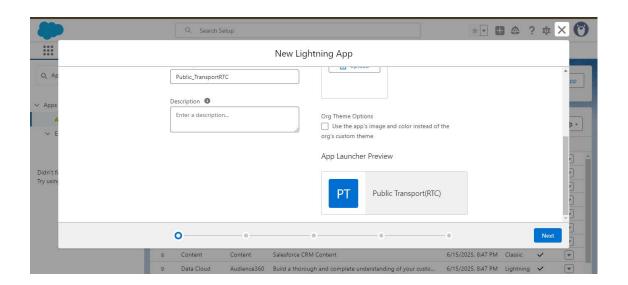
Milestone 3: Tab Creation

- Created tabs for each custom object.
- Enabled easy navigation and object access in the app.
- Ensured users can create/view records from the UI.



Milestone 4: Lightning App Setup

- Built a custom Lightning App named "Public Transport RTC".
- Added relevant tabs to centralize operations.
- Simplified user workflow by grouping features.



Milestone 5: Field Creation

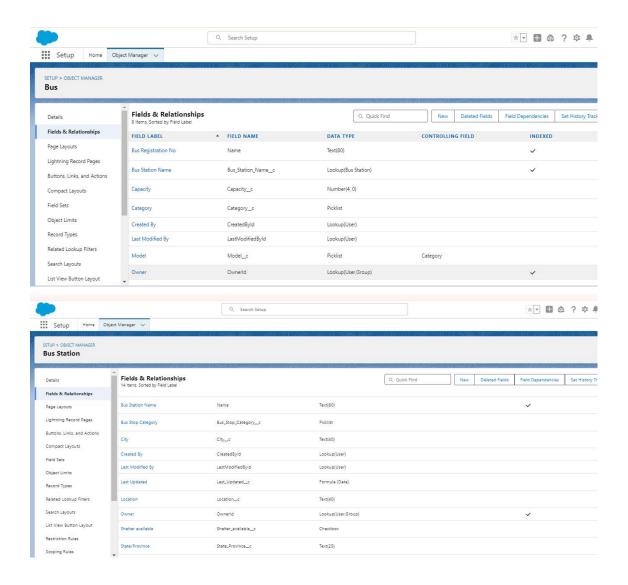
- Added custom and formula fields like:
 - o Role (Picklist), Age, Experience, Fare, Passenger Count.
 - Implemented: Total Fare = Fare × Passenger
 Count formula.
- Linked Driver and Conductor to Trip via lookup fields.

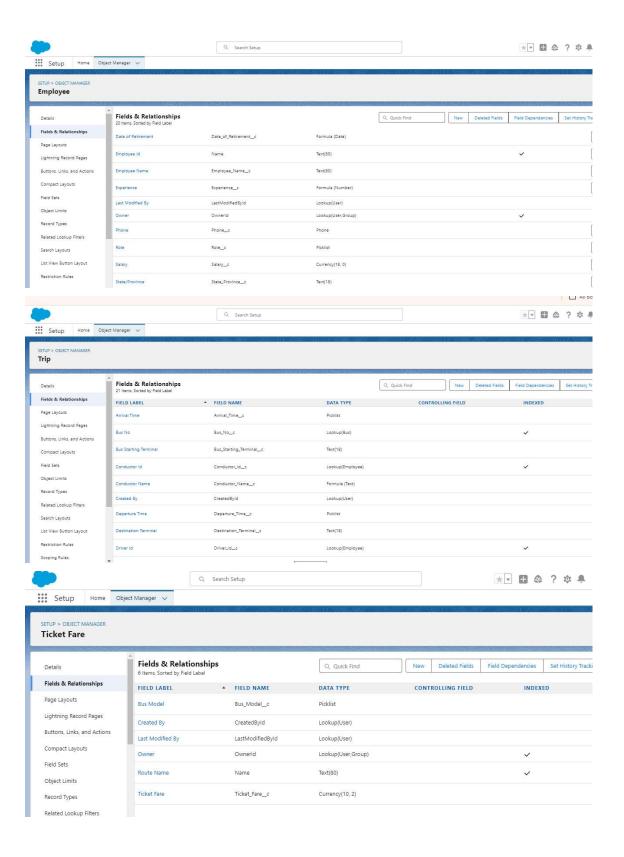
Milestone 5- Fields

<u>Object</u>	<u>Field Name</u>	<u>Data Type</u>
Bus Station	Bus Station Name(Standard)	<u>Text</u>
	Bus Stop Category	Picklist(Unmanaged Bus Stop. Managed Bus Stop)
	Last Updated	<u>Formula(Date)</u>
	<u>Amenities</u>	<u>Picklist(Multi-select)</u>
	<u>City</u>	<u>Text(40)</u>
	<u>Street</u>	<u>TextArea</u>
	State/Province	<u>Text(25)</u>
	Zip/PostalCode	<u>Text(10)</u>
	Shelter Available	<u>Checkbox</u>
	<u>Bench</u>	<u>Checkbox</u>

<u>Bus</u>	Bus Registration No (Standard)	<u>Text</u>
	Bus Station Name	Lookup(Bus Station)
	<u>Capacity</u>	<u>Number(4,0)</u>
	Category	<u>Picklist</u>
	<u>Model</u>	Picklist(Dependent on Category)
Trip	Trip No(Standard)	<u>Text</u>
	Trip Date	<u>Date</u>
	<u>Bus No</u>	<u>Lookup(Bus)</u>
	Route Name	<u>Lookup(Ticket Fare)</u>
	Arrival Time	<u>Picklist</u>
	Departure Time	<u>Picklist</u>
	Bus Starting Terminal	<u>Text</u>
	<u>Destination</u> <u>Terminal</u>	<u>Text</u>
	<u>Driver Id</u>	<u>Lookup(Employee)</u>
	<u>Driver</u>	<u>Formula</u>
	Conductor Id	Lookup(Employee)
	<u>Conductor</u>	<u>Formula</u>
	Estimated Travel Time	<u>Number</u>
	Frequency Per Day	<u>Number(2,0)</u>
	No. of Stops	<u>Number(2.0)</u>
	Passenger Count	<u>Number(4,0)</u>

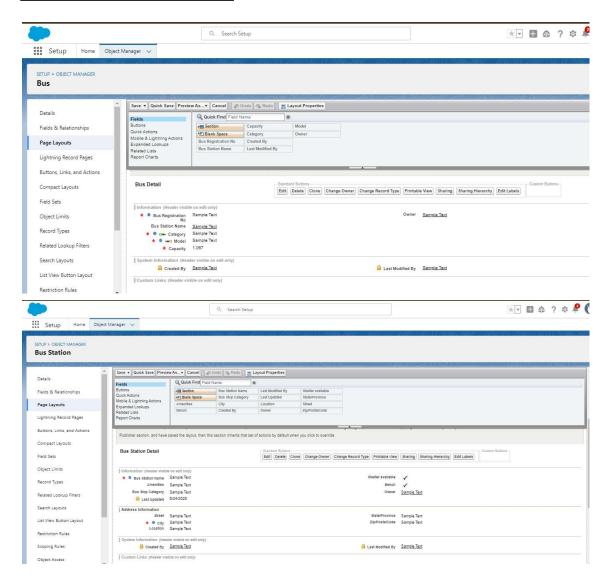
	<u>Ticket Fare</u>	<u>Currency(16,2)</u>
	<u>Total Amount</u>	<u>Formula</u>
<u>Ticket</u> <u>Fare</u>	<u>Route</u> <u>Name(Standard)</u>	<u>Text</u>
	Bus Model	<u>Picklist</u>
	<u>Ticket Fare</u>	Currency(10,2)
<u>Employee</u>	<u>Employee</u> <u>Id(Standard)</u>	<u>Text</u>
	Bus Station Name	<u>Lookup(Bus Station)</u>
	Employee Name	<u>Text</u>
	Role	<u>Picklist</u>
	Date of Birth	<u>Date</u>
	<u>Age</u>	<u>Formula(Number)</u>
	Work Place	<u>Text</u>
	<u>Salary</u>	<u>Currency(18,0)</u>
	<u>Phone</u>	<u>Phone</u>
	Date of Joining	<u>Date</u>
	Date of Retirement	<u>Formula(Date)</u>
	<u>Experience</u>	<u>Formula(Number)</u>
	<u>Street</u>	<u>TextArea</u>
	<u>City</u>	<u>Text</u>
	State/Province	<u>Text</u>
	Country	<u>Text</u>
	Zip/PostalCode	<u>Text</u>

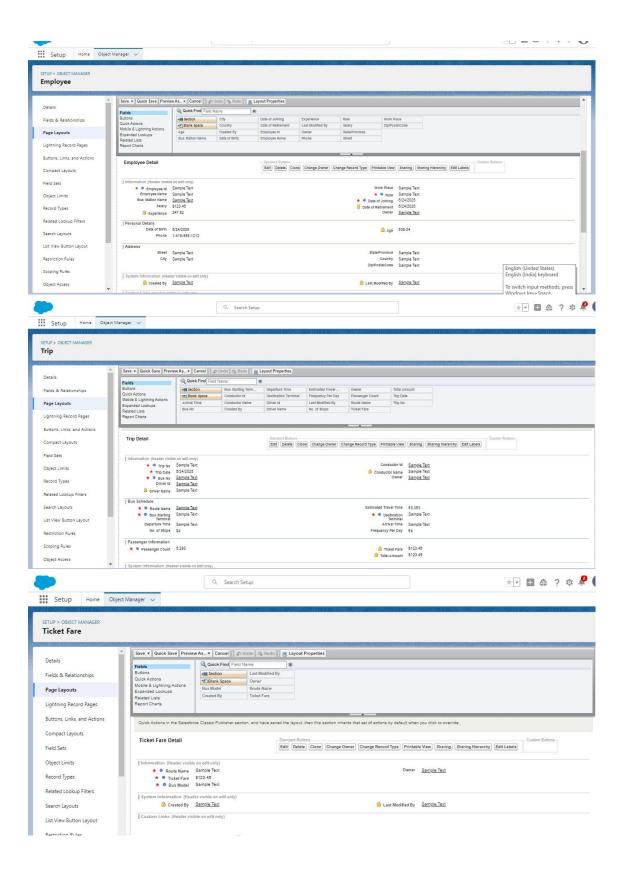




Milestone 6: Page Layouts

- Customized page layouts per object.
- Grouped fields logically for usability.
- Enhanced record readability and data entry experience.

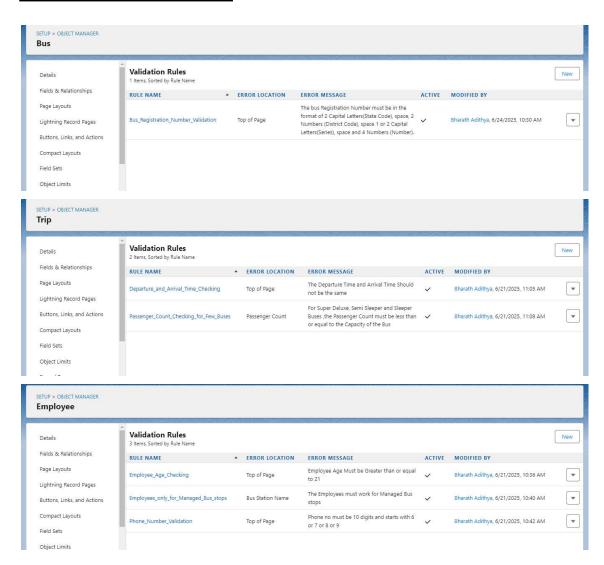




Milestone 7: Validation Rules

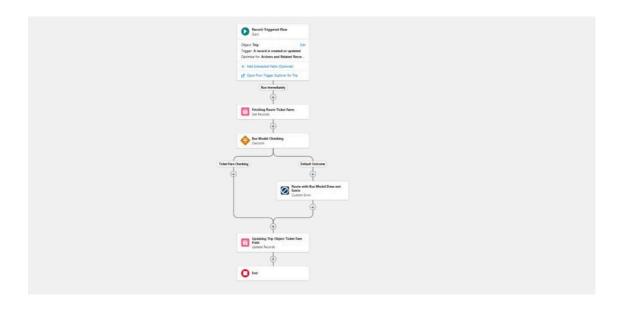
Enforced data quality with validations like:

- o Age ≥ 21, correct phone number format, required fields.
- Prevented invalid inputs and ensured system reliability.



Milestone 8: Flow Setup

- Designed a record-triggered flow:
 - o Automatically fetches fare based on route + model.
- Improved automation and reduced manual input errors.



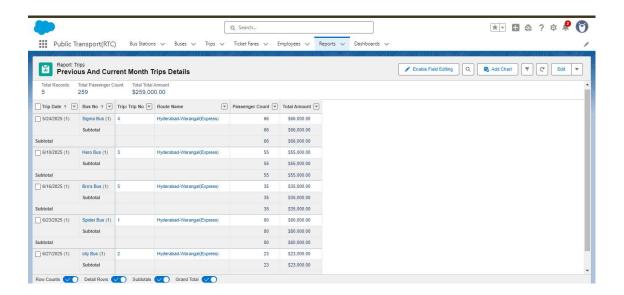
Milestone 9: Apex Trigger

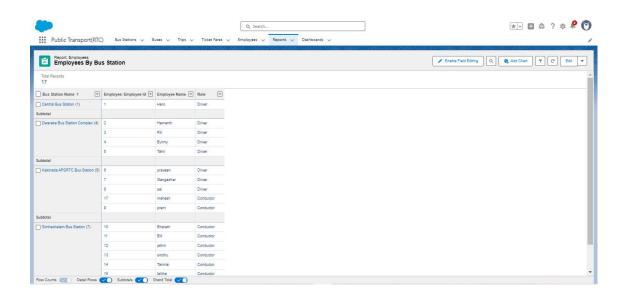
- Developed a trigger to validate:
 - o Only users with role "Driver" can be added as Driver.
 - o Only "Conductor" can be added as Conductor.
- Ensured business logic is enforced at data level.

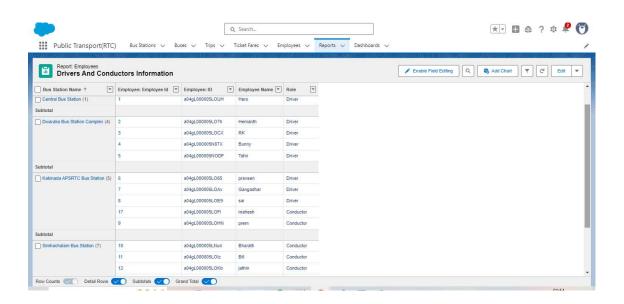
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| Fig. | Ser. Conduct Note: worknowners | Note: Conductor | Ser. Conductor
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Milestone 10: Reports

- Created reports for:
 - o Employees per station, monthly revenue, trip counts.
- Used grouping, filters, and field summaries.
- Enabled data-driven decision-making.



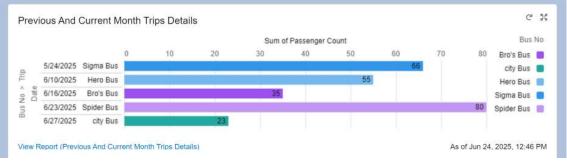




Milestone 11: Dashboards

- Designed dashboards showing:
 - o Revenue trends, trip performance, and role summary.
- Used bar, pie, and summary widgets for visualization.





Milestone 12: Final Review

- Conducted full system testing.
- Checked all object links, flows, triggers, reports.
- Confirmed the CRM is fully functional and stable.

2. Dataset

The system was tested with the following types of data:(Sample Records and Input Values Used During Testing)

Object	Sample Fields Used
Bus Station	Name: Visakhapatnam Central, Category: Managed
Bus	Model: Super Deluxe, Capacity: 45, Station: Visakhapatnam
Employee	Name: Rakesh, Role: Driver, Phone: 9876543210, DOB: 1980-06-14
Ticket Fare	Route: Hyderabad-Warangal (Express), Fare: ₹220
Trip	Route: Hyderabad-Warangal, Passengers: 34, Estimated Time: 4 hrs

Note: All test records were created using Salesforce's UI and validated via flows and formula fields