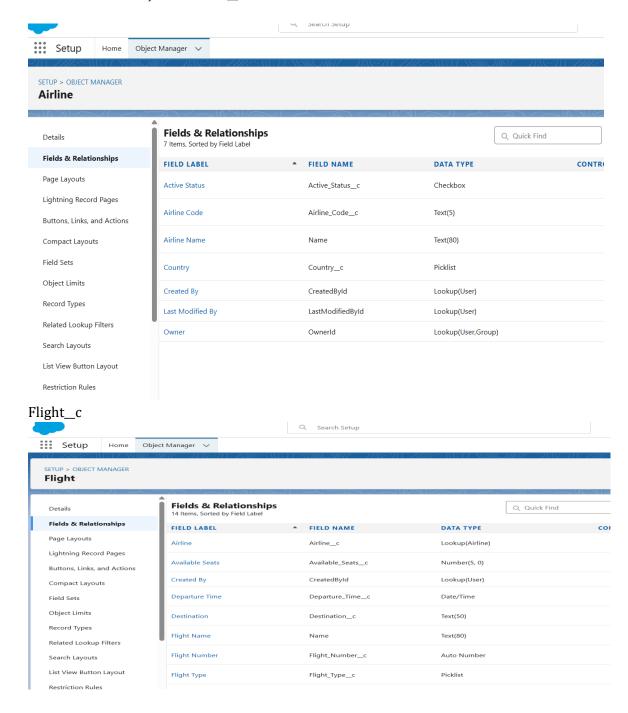
Airline Management System Project

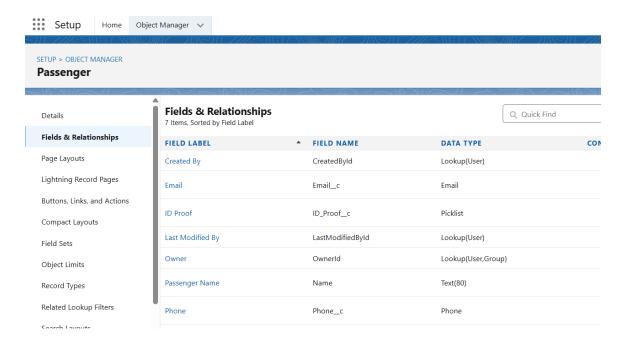
Continuation Report (Phase 3 - Phase 10)

Phase 3: Data Modeling & Schema Design

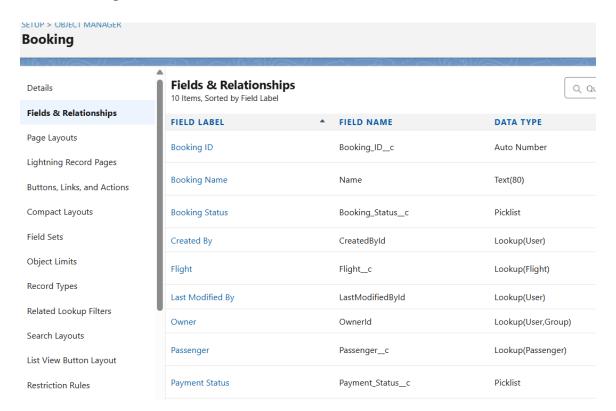
Created Custom Objects: Airline_c



Passenger_c



Booking_c

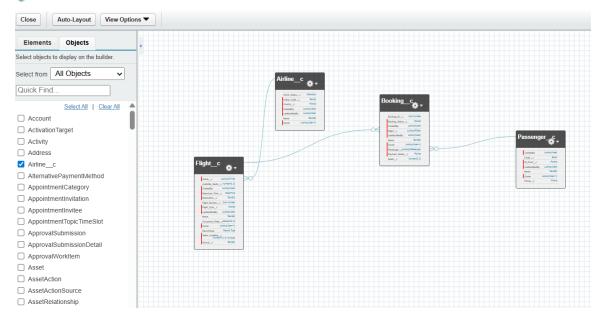


Defined Relationships: Flight_c linked to Airline_c, Booking_c linked to Passenger_c and Flight_c.

Added key Fields: Flight Number, Source, Destination, Departure Time, Seats Available, Flight Type. This is cover in my screenshort

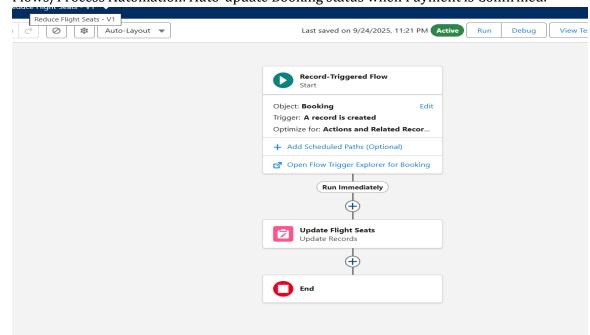
• Ensured schema supports bookings, cancellations, and reporting.



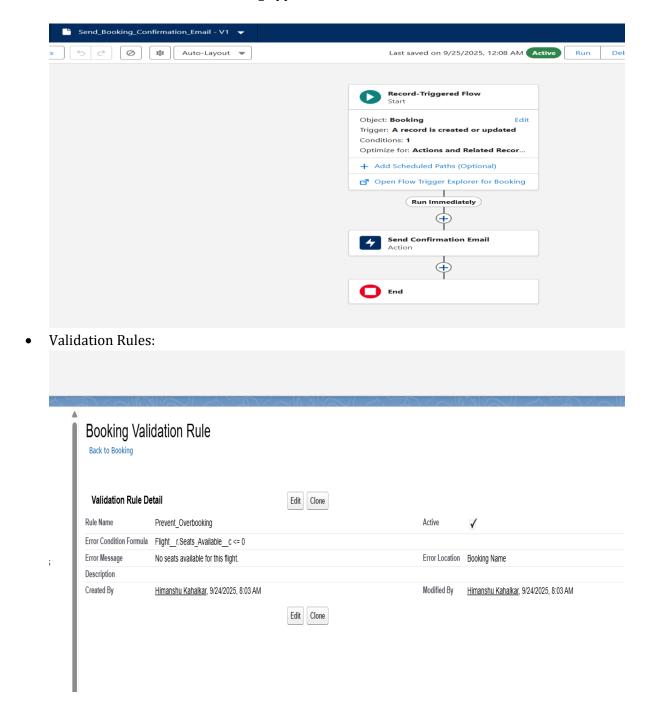


Phase 4: Automation (Flows & Validation Rules)

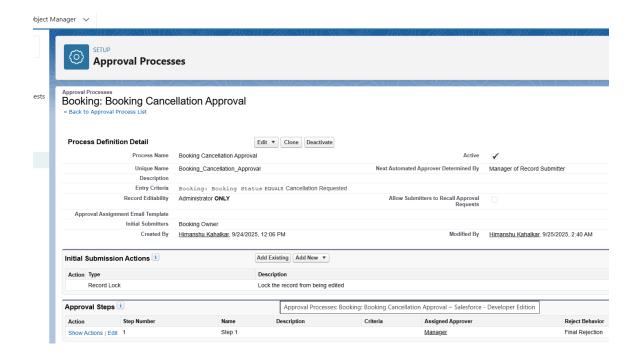
• Flows/Process Automation: Auto-update Booking status when Payment is Confirmed.



Send confirmation email after booking approval.

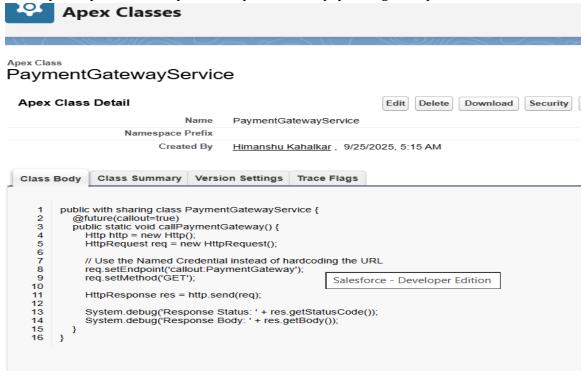


Approval Process: Cancellations require Manager approval.



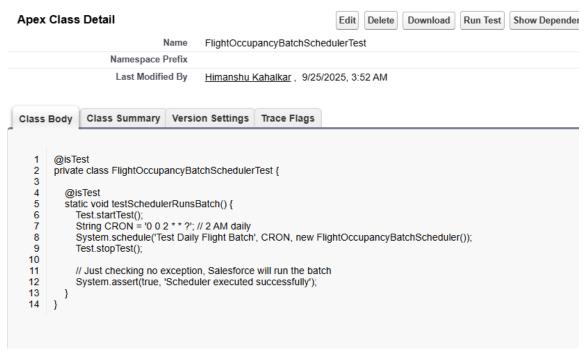
Phase 5: Apex Programming (Optional Enhancement)

• Developed PaymentGatewayService Apex class for payment gateway simulation.

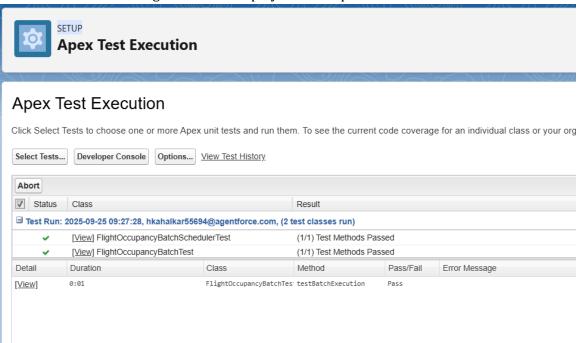


• Created triggers and classes for custom logic (Booking updates, Batch jobs).

FlightOccupancyBatchSchedulerTest

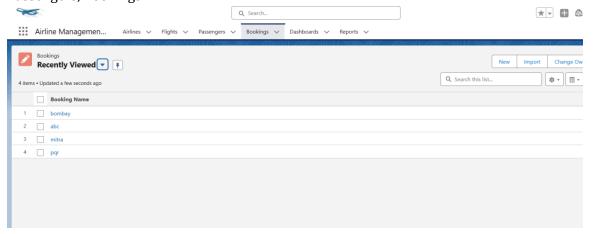


• Ensured unit test coverage ≥ 75% for deployment compliance.

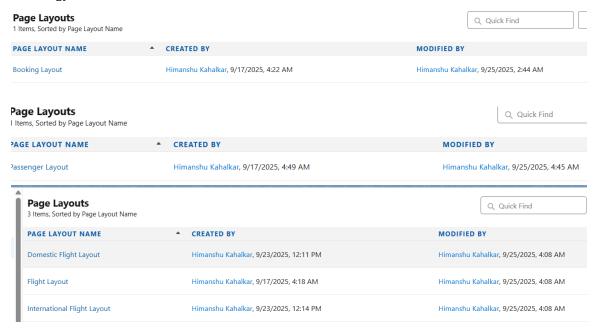


Phase 6: User Interface Development

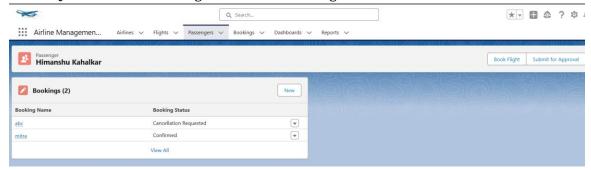
• Created Lightning App: Airline Management System with tabs for Airlines, Flights, Passengers, Bookings.



 Customized Page Layouts to show related records (Bookings on Flight, Passengers on Booking).

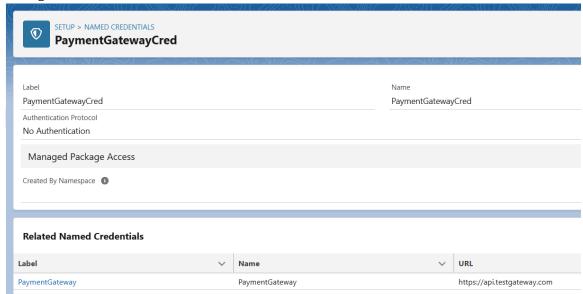


• Added Quick Action: 'Book Flight' button on Passenger record.



Phase 7: Integration & External Access

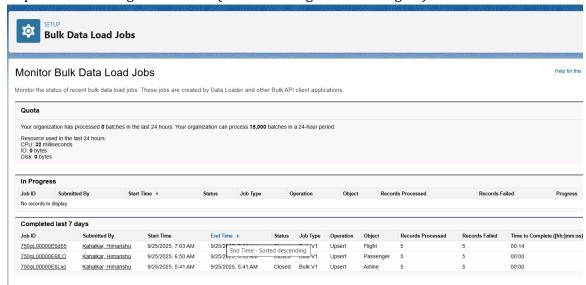
• Configured Named Credentials for external services.



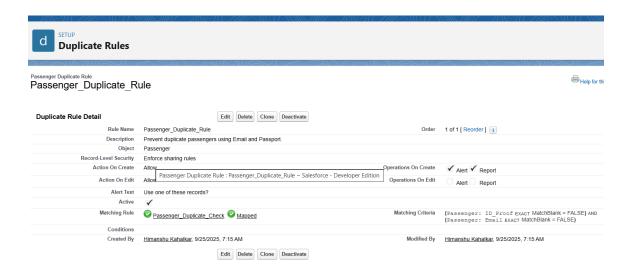
• Implemented Payment Gateway callouts with secure authentication.

Phase 8: Data Management & Deployment

Imported data using Data Loader (Airlines → Flights → Passengers).

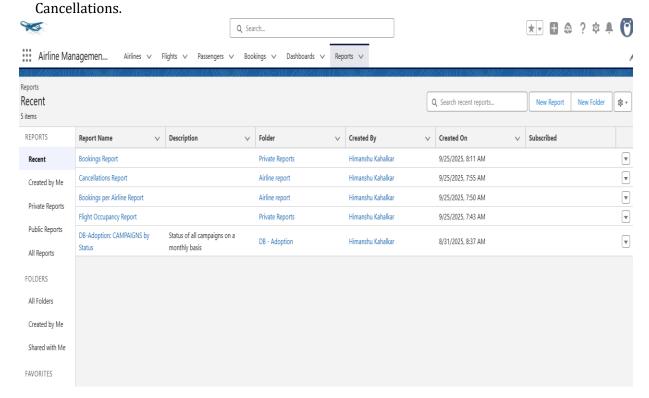


Created Duplicate Rules to prevent duplicate passengers by Email + Passport.

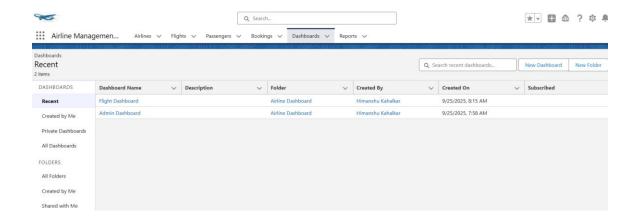


Phase 9: Reporting, Dashboards & Security Review

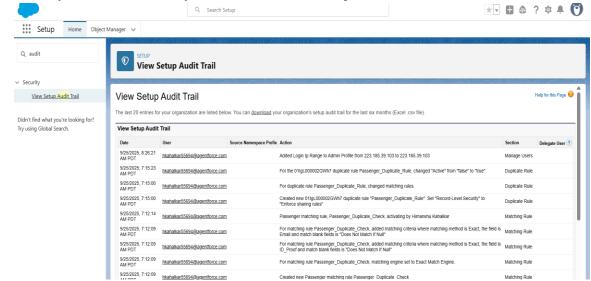
 Reports: Flight Occupancy Bookings per Airline



 Dashboards: Admin Dashboard (Revenue, Occupancy, Bookings), Flight Dashboard (Cancellations).



• Security: Field-level security for sensitive fields, Setup Audit Trail enabled



• Admin Login IP restrictions configured.

