Date	20-6-2025
Team ID	LTVIP2025MID29669
Project Name	Airlines Management system
Maximum Marks	

Chapter-8

8. Results

Types of Testing Involved

Test Type	Purpose
Unit Testing	Validates individual components like flight scheduling or pilot modules
Integration Testing	Ensures smooth data flow between modules (e.g., booking ↔ payment)
System Testing	Verifies the entire system meets business requirements
User Acceptance Testing (UAT)	Confirms the system works for end users like operators and admins
Security Testing	Checks role-based access, data encryption, and compliance
Performance Testing	Evaluates system response under high load (e.g., booking surges)

Salesforce-Specific Testing Considerations

- **Validation Rules**: Ensure fields like departure/arrival times and pilot age are correctly enforced.
- **Workflow Rules**: Test automation triggers (e.g., status updates, email alerts).
- **Role Hierarchy & Sharing Rules**: Confirm data visibility aligns with user roles (e.g., operators vs. CEO).
- **Reports & Dashboards**: Validate accuracy of flight status, pilot schedules, and booking trends.

Modules to Focus On

- **Flight Management**: Scheduling, status updates, pilot assignment
- **Pilot Management**: Experience levels, availability, contact info
- **Booking & Payment**: Ticketing, cancellations, payment gateway integration
- **Security & Admin**: Role-based access, audit logs, folder sharing
- **Reports**: Monthly flight summaries, pilot performance, route analytics

Tools You Might Use

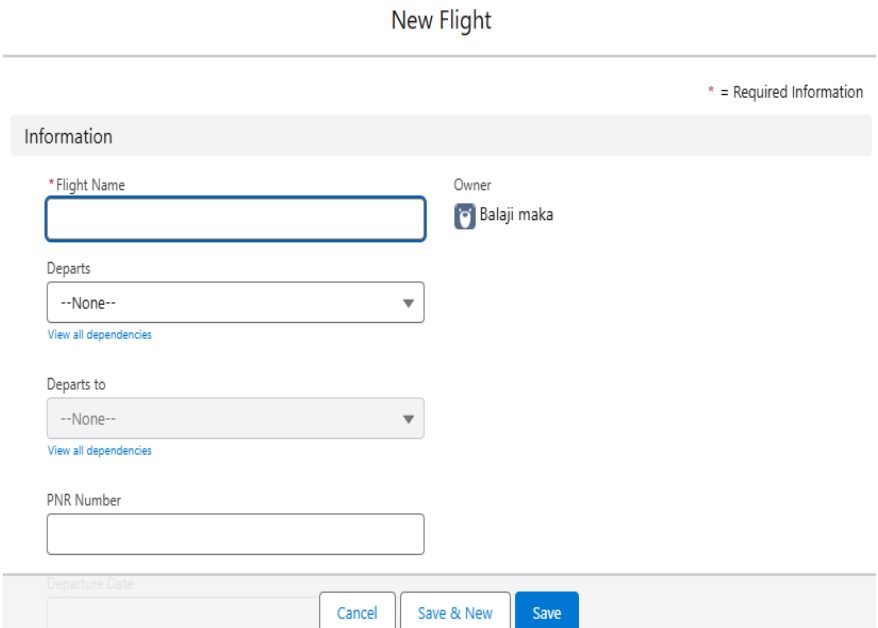
Tool	Use Case
Salesforce Developer Console	Debugging and unit testing Apex code
Workbench	API testing and data manipulation
Selenium	UI automation for Lightning components
JMeter	Load testing for booking and payment flows

8.2 Output Screenshots

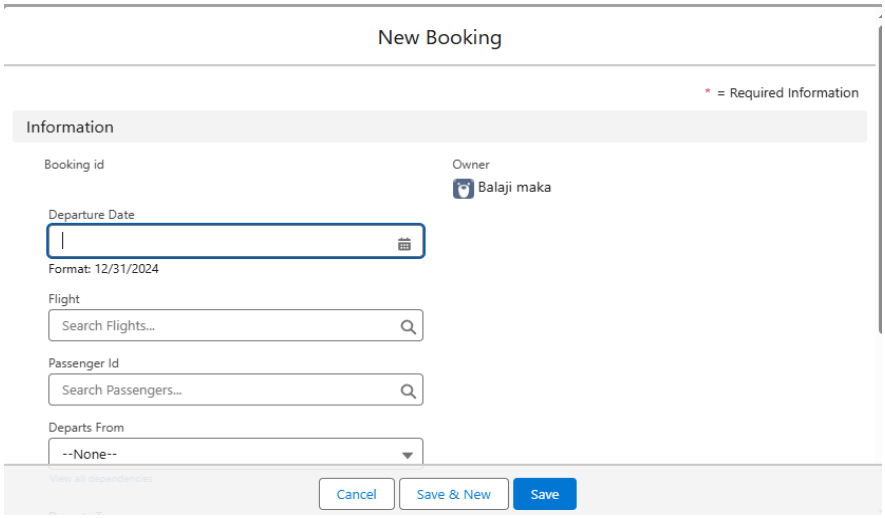
Outputs:

New passenger:

Flight:



Bookings:



Crew: