### **Travel Request Management System**

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### **Abstract**

The *Travel Request Management System* is a Salesforce-based application designed to simplify and automate the process of submitting, reviewing, and approving employee travel requests within an organization. The project focuses on building scalable solutions using declarative tools (flows, automation), Apex programming, and Lightning UI development.

It provides an efficient way for employees to request business trips, for managers to approve requests, and for admins to monitor travel expenditures — ensuring smooth workflow automation and data visibility across the organization.

# **Objectives**

- To automate the process of travel request and approval.
- To develop a centralized system to manage travel records efficiently.
- To implement process automation using Flows and Email Alerts.
- To design an intuitive **Lightning App** for users to manage requests.
- To create custom **Reports and Dashboards** for analytics.
- To integrate with external systems (Web-to-Lead) for data capture.

## **Phases of the Project**

#### Phase 1: Problem Understanding & Industry Analysis

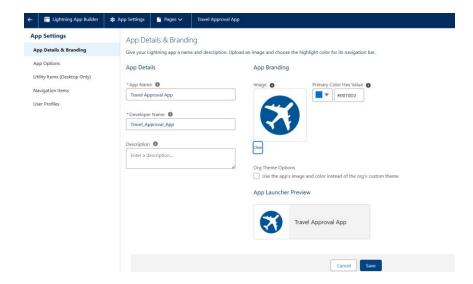
Studied common pain points in travel request systems—manual tracking, approval delays, and lack of visibility.

Identified Salesforce as the best CRM platform for workflow automation and scalable solutions.

#### Phase 2: Org Setup & Configuration

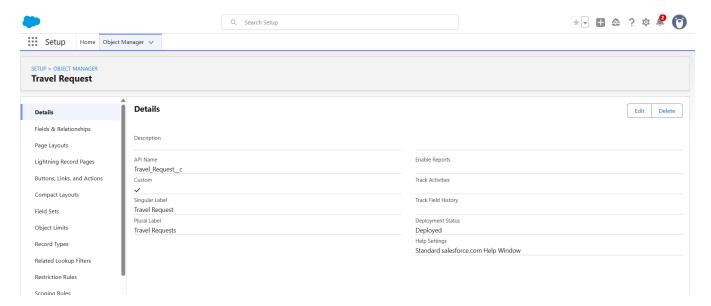
- Created a new Salesforce Developer Org.
- Set up profiles, permission sets, and users.

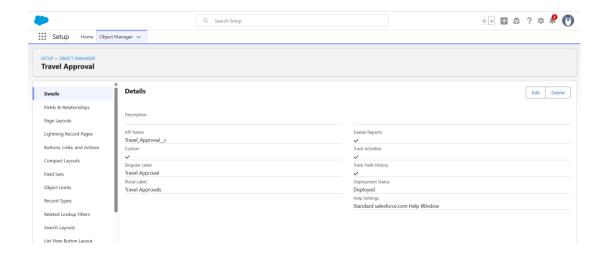
• Enabled necessary features for automation and Lightning App development.



#### Phase 3: Data Modeling & Relationships

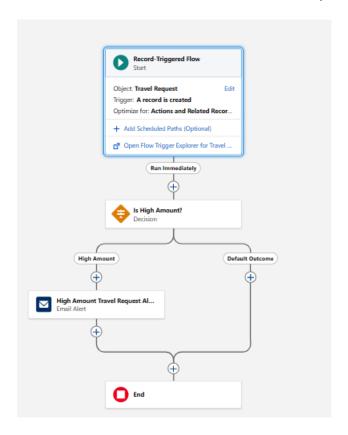
- Created two main custom objects:
  - Travel\_Request\_\_c stores employee travel details (Destination, Start Date, Amount, etc.)
  - o **Travel\_Approval\_\_c** stores approval records linked to each request.
- Established **Lookup Relationship** between Travel Approval and Travel Request.





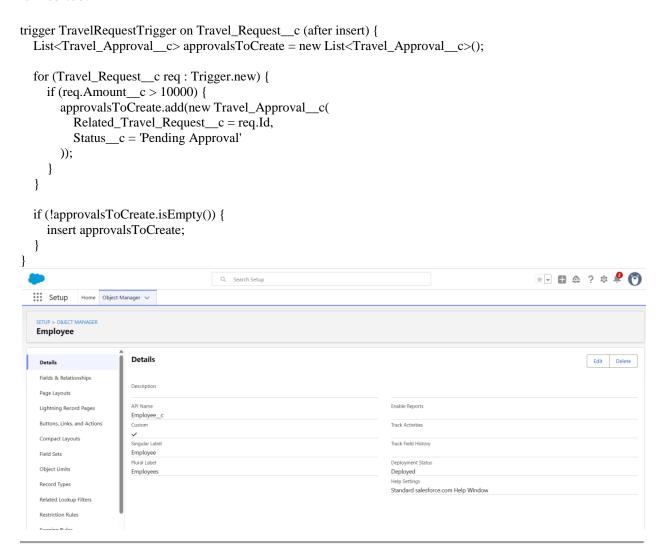
**Phase 4: Process Automation (Admin)** 

- Created **Flows** to automate approvals for high-value travel requests (> ₹10,000).
- Configured **Email Alerts** to notify managers when high-amount requests are submitted.
- Added Decision elements in Flow for dynamic logic handling.



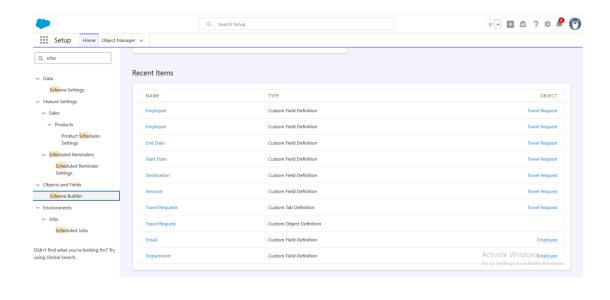
#### **Phase 5: Apex Programming (Developer)**

Developed a **trigger** to automatically create a related approval record when a new travel request is inserted.



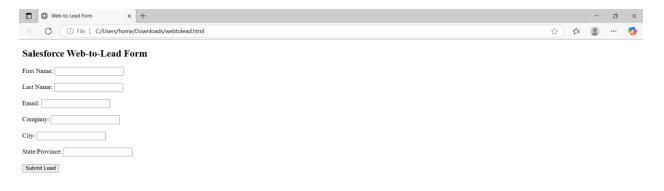
**Phase 6: User Interface Development** 

- Built a **custom Lightning App** named "Travel Management."
- Added navigation items: Travel Requests, Travel Approvals, Reports, and Dashboards.
- Configured record pages and compact layouts for better usability.



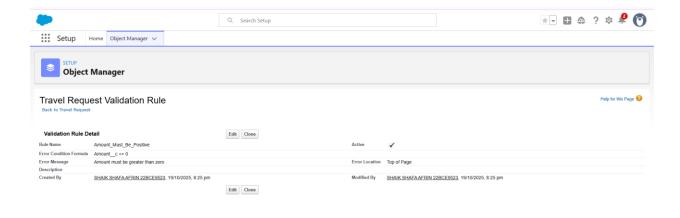
**Phase 7: Integration & External Access** 

- Implemented **Web-to-Lead** form integration to capture data directly from an external website.
- Hosted HTML form that sends lead information into Salesforce automatically.



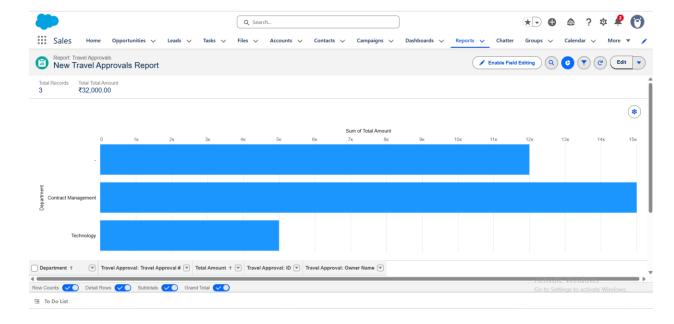
Phase 8: Data Management & Deployment

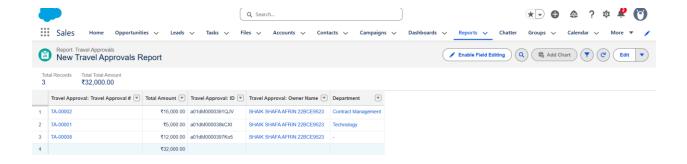
- Imported test data using **Data Import Wizard**.
- Validated data integrity and relationships between objects.
- Deployed the flow and trigger successfully in the same org.



Phase 9: Reporting, Dashboards & Security Review

- Created **Reports** to display total requests by employee and amount.
- Built a **Dashboard** with visual charts for travel budget analysis.
- Reviewed sharing rules and field-level security for sensitive data





Phase 10: Final Presentation & Demo

https://drive.google.com/file/d/1rs2URxzM0OSJ1ATIIQP3XOdkyJG6XIYf/view?usp=sharing

## **Conclusion**

The *Travel Request Management System* successfully demonstrates how Salesforce can be used to automate business processes using declarative and programmatic tools.

It enables seamless request tracking, automated approvals, and insightful analytics — making it a complete end-to-end enterprise solution.