

Corporate Travel & Expense Management System Project

Phase 5: Apex Programming (Developer)

✚ In this project, Apex programming is not required because the business logic can be fully implemented using Salesforce declarative tools such as:

- **Record-Triggered Flows** → Handle Travel Request and Expense Claim approvals with decision elements (Approved, Rejected, Default).
- **Validation Rules** → Ensure data accuracy (e.g., **End_Date__c** > **Start_Date__c**).
- **Approval Process** → Manage high-value requests without custom code.
- **Email Alerts & Notifications** → Automatically notify Managers and Finance users.

✚ Using Apex is generally required when:

- **Complex logic** goes beyond Flow limits.
- **Bulk asynchronous** processing is needed (Batch, Queueable, Scheduled Apex).
- External integrations need custom **REST/SOAP callouts**.

✚ For this project:

- No heavy data processing is required.
- Approval and notification logic is straightforward.
- Integrations can be handled with Named Credentials, External Services, and Flow callouts instead of custom Apex.

👉 Therefore, **Phase 5 (Apex Programming)** is intentionally skipped, since the same functionality is achieved with low-code tools that are easier to maintain, faster to implement, and align with Salesforce's "Clicks, not Code" principle.