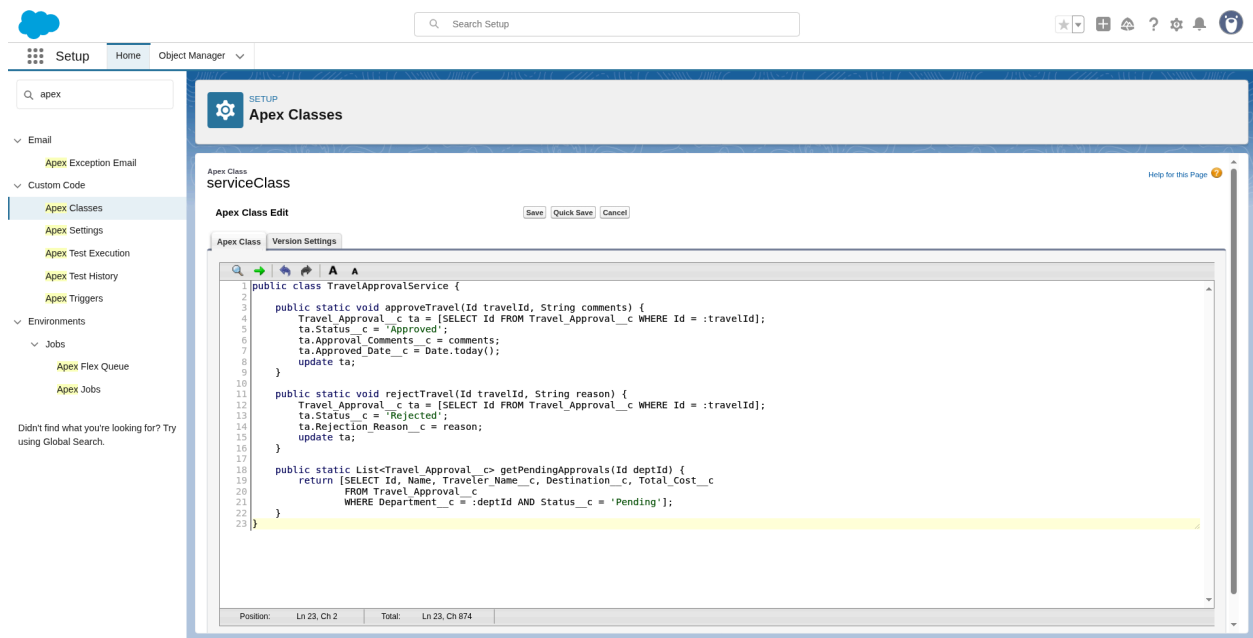


Phase 5: Apex Programming (Developer)

Classes & Objects



The Code (TravelApprovalService)

Let me break down what this code does:

```
public class TravelApprovalService {
```

- Declares a public service class for handling travel approvals

Method 1: approveTravel (Lines 3-9)

```
public static void approveTravel(Id travelId, String comments) {
```

- **Purpose:** Approves a travel request

- **Parameters:**
 - **travelId** - ID of the travel approval record
 - **comments** - Approval comments
- **Actions:**
 - Queries the Travel_Approval__c record using SOQL
 - Sets Status to 'Approved'
 - Stores the comments
 - Sets approval date to today
 - Updates the record in database

Method 2: rejectTravel (Lines 11-16)

```
public static void rejectTravel(Id travelId, String reason) {
```

- **Purpose:** Rejects a travel request
- **Parameters:**
 - **travelId** - ID of the travel approval record
 - **reason** - Rejection reason
- **Actions:**
 - Queries the Travel_Approval__c record
 - Sets Status to 'Rejected'
 - Stores the rejection reason
 - Updates the record

Method 3: getPendingApprovals (Lines 18-22)

```
public static List<Travel_Approval__c> getPendingApprovals(Id deptId) {
```

- **Purpose:** Retrieves all pending travel approvals for a department
- **Parameters:**
 - **deptId** - Department ID
- **Returns:** List of pending Travel_Approval__c records
- **Query:** Selects Id, Name, Traveler_Name__c, Destination__c, Total_Cost__c where Department matches and Status is 'Pending'

Bottom Status Bar




- **Position:** Ln 23, Ch 2 (Line 23, Character 2)
- **Total:** Ln 23, Ch 874 (Total of 23 lines, 874 characters)

Key Features of This Screen:

1. **Syntax Highlighting** - Code is color-coded for readability
2. **Line Numbers** - Left side shows line numbers
3. **Version Control** - Version Settings tab allows tracking changes
4. **Quick Save** - Saves without compiling (faster)
5. **Help** - Top right has "Help for this Page" link

What This Class Does:

This is a **Service Layer** class that handles business logic for travel approvals in a tourism management application. It provides three key operations:

-  Approve travel requests
-  Reject travel requests
-  View pending approvals by department

SOQL & SOSL in Tourism Management

- **SOQL (Salesforce Object Query Language):**
 - Targeted search for specific objects and fields (e.g., finding bookings for a date range).
 - Used for generating reports and retrieving specific customer/booking details.
- **SOSL (Salesforce Object Search Language):**
 - Full-text search across multiple objects and fields (e.g., finding a customer's details by name/email anywhere).
 - Useful for quickly locating information when the exact location is unknown.

Application in Tourism Management:

- Efficiently manage customer data and streamline booking processes.
- Enhance customer service and generate insights for informed decisions.

Collections in Tourism Management

- **Collections:** Fundamental data structures for storing and manipulating groups of related data.

List

- **List:** Ordered collection allowing duplicate values, accessed by index.
- **Application:** Storing sequences like bookings for a day, tour participants, or itinerary steps.

Set

- **Set:** Unordered collection with no duplicate values, ensuring data uniqueness.
- **Application:** Identifying unique customers, tracking unique destinations, or filtering duplicates.

Map

- **Map:** Collection of unique key-value pairs for quick data retrieval.
- **Application:** Looking up customer/booking details by ID, storing pricing by package, or tracking availability.