AIRLINE MANAGEENT SYSTEM

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

Chapter - 12

12. Appendix (Apex Code)

2 Appendix: Apex Code for Salesforce-Based Airline Management System

Here's a sample of how Apex code might be structured in your airline management system project. This appendix typically includes triggers, classes, and methods that automate business logic like flight scheduling, pilot assignment, and email notifications.

☒ 1. Trigger: Flight Schedule Status Update

```
apex
trigger UpdateFlightStatus on FlightSchedule__c (before insert, before
update) {
    for (FlightSchedule__c fs : Trigger.new) {
        if (fs.DepartureDateTime__c != null && fs.ArrivalDateTime__c != null)
    }
    if (fs.DepartureDateTime__c > fs.ArrivalDateTime__c) {
            fs.addError('Departure cannot be after arrival.');
        }
        if (fs.Status__c == null) {
            fs.Status__c = 'Open';
        }
    }
}
```

□ ☑ 2. Class: Pilot Assignment Notification

```
apex
public class PilotNotification {
    public static void sendPilotEmail(Id pilotId, String flightName, DateTime
departure, DateTime arrival) {
        Contact pilot = [SELECT Email FROM Contact WHERE Id = :pilotId LIMIT
1];
        if (pilot.Email != null) {
            Messaging.SingleEmailMessage email = new
Messaging.SingleEmailMessage();
        email.setToAddresses(new String[] {pilot.Email});
        email.setSubject('Flight Assignment Notification');
```

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☐ 3. Utility Method: Calculate Flight Duration

```
apex
public class FlightUtils {
    public static String calculateDuration(DateTime departure, DateTime arrival) {
        Long durationMillis = arrival.getTime() - departure.getTime();
        Long minutes = durationMillis / (1000 * 60);
        Long hours = minutes / 60;
        minutes = minutes % 60;
        return hours + ' Hours ' + minutes + ' Minutes';
    }
}
```

These examples reflect common logic used in Salesforce airline systems. You can expand this appendix with test classes, batch jobs, or asynchronous processes depending on your project scope.