



IT314 – Software Engineering G27 Flight Booking System

Design Document

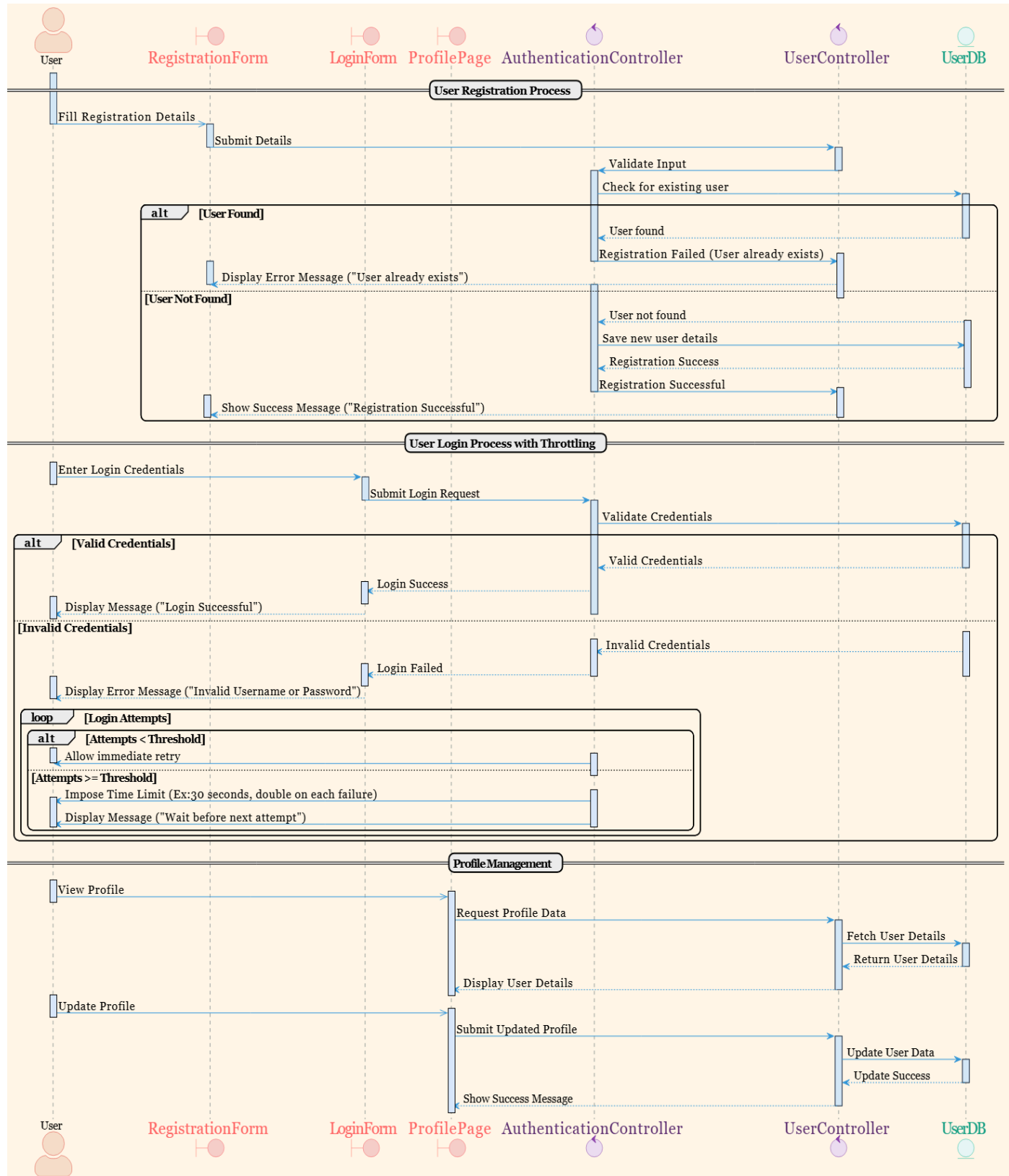
Document Purpose: This document outlines the design architecture for the SkyLynx Flight Booking System. It provides detailed representations through class diagram, sequence diagram & activity diagram for each sprint.

Sprint 1: User Registration & Authentication

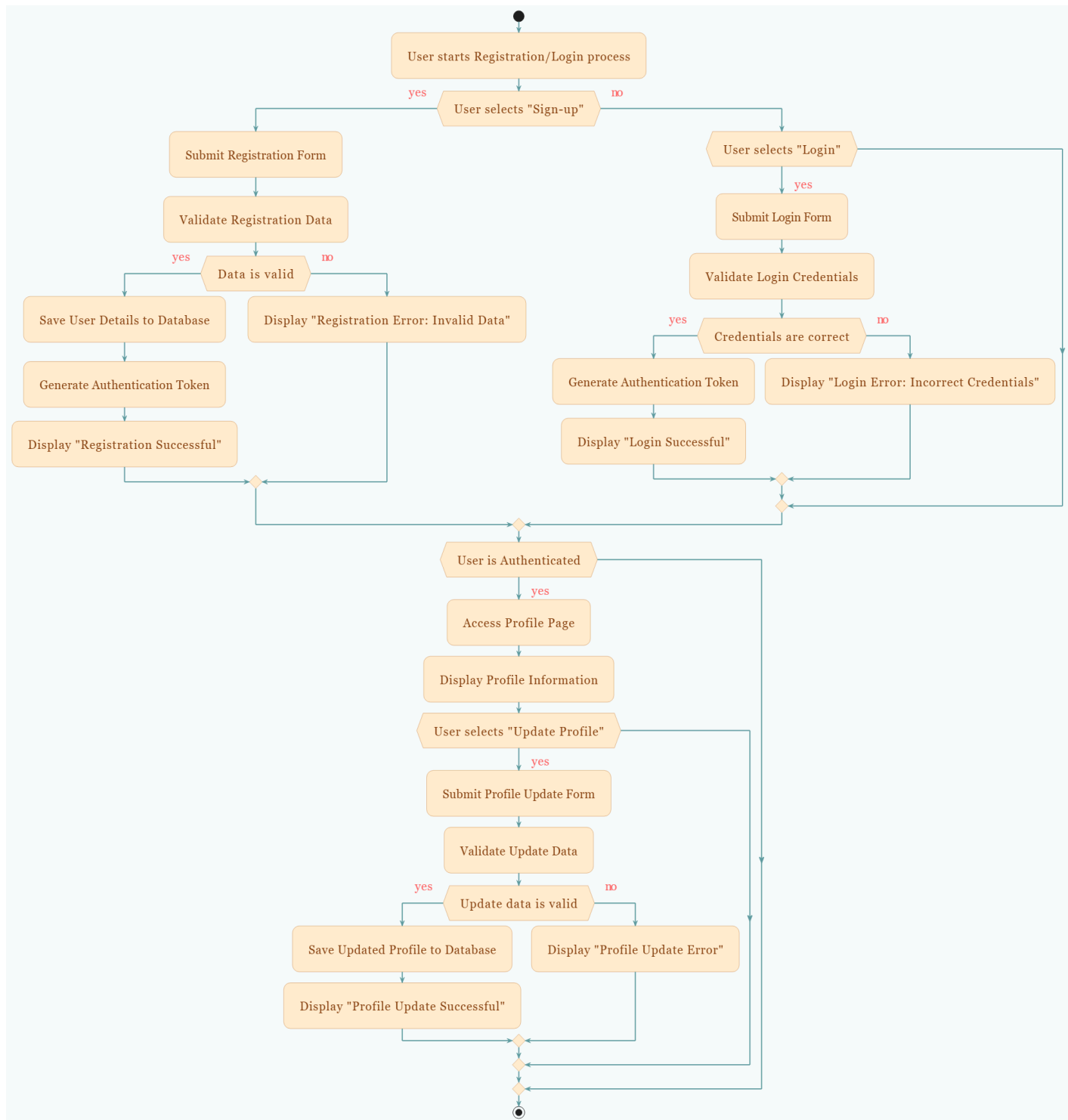
1.a)Class Diagram:

User
+ Username: string
+ Email: string
+ Password: string
+ FirstName: string
+ LastName: string
+ DateOfBirth: date
+ Created_On: datetime
+ updateProfile(user: User): boolean
+ getProfileDetails(): User
+ registerUser(username: String, email: String, password: String): boolean
+ login(username: String, password: String): boolean
+ changePassword(oldPassword: String, newPassword: String): boolean

1.b) Sequence Diagram

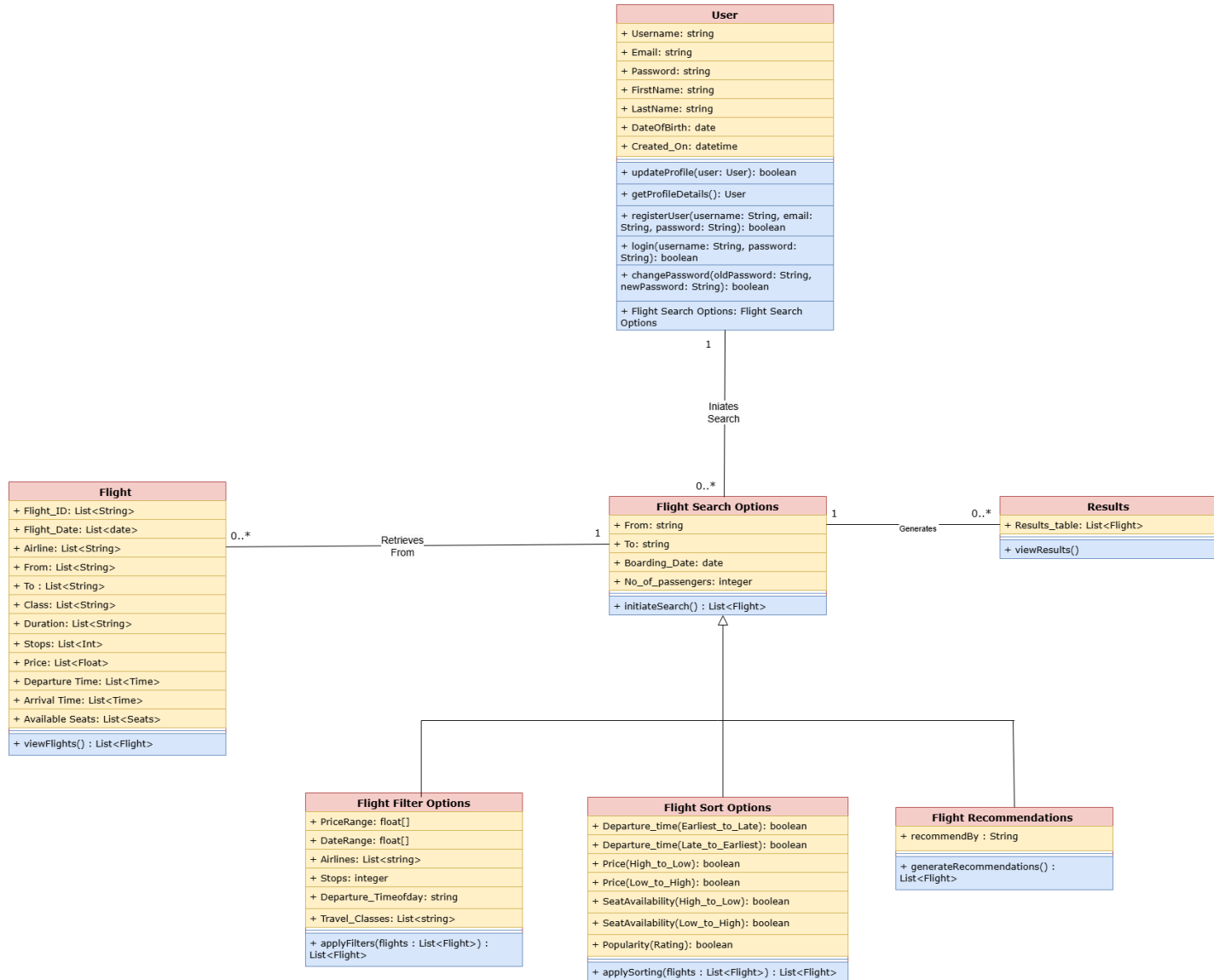


1.c)Activity Diagram

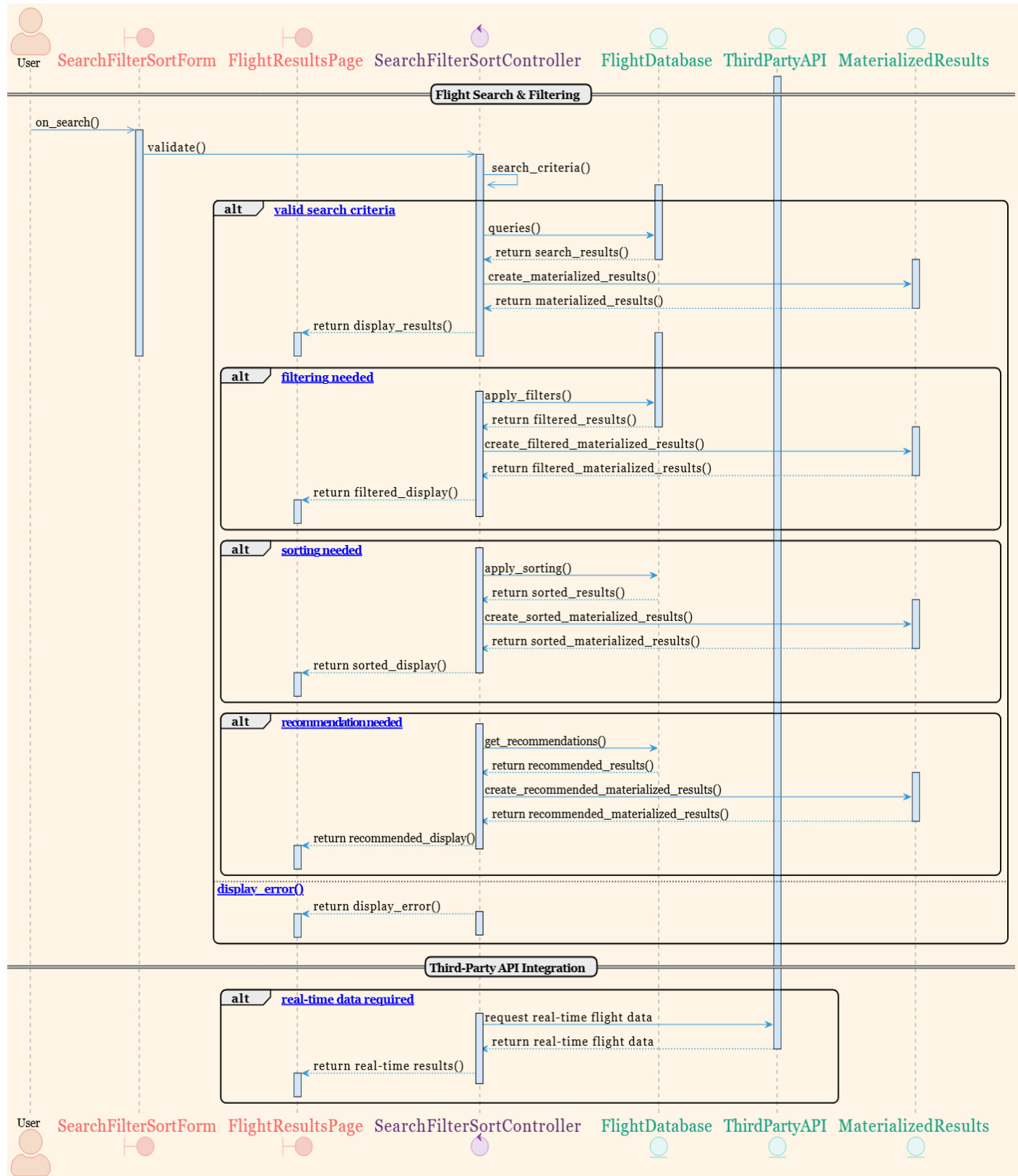


Sprint 2: Flight Search & Filtering

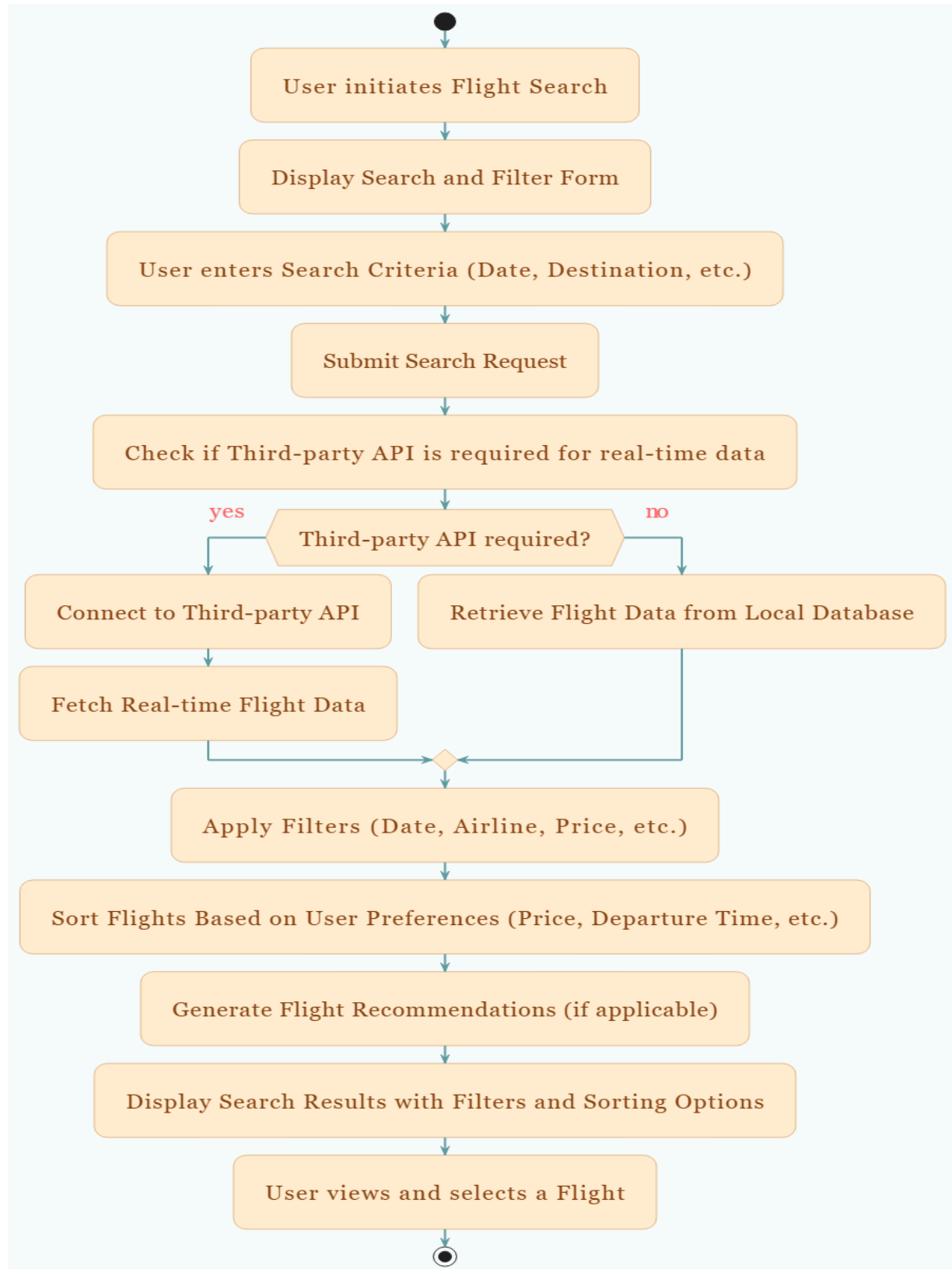
2.a) Class Diagram:



2.b) Sequence Diagram

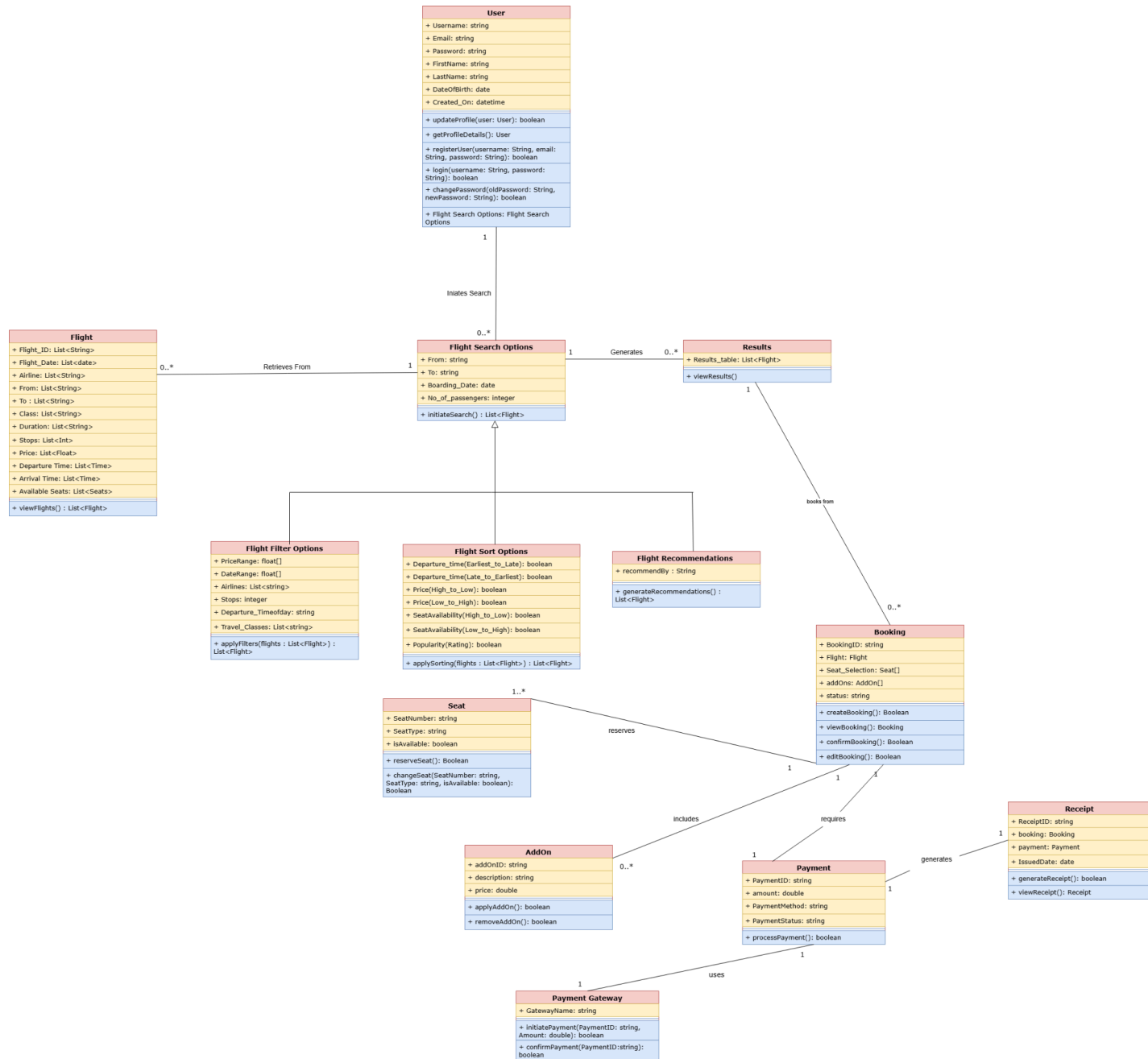


2.c) Activity Diagram

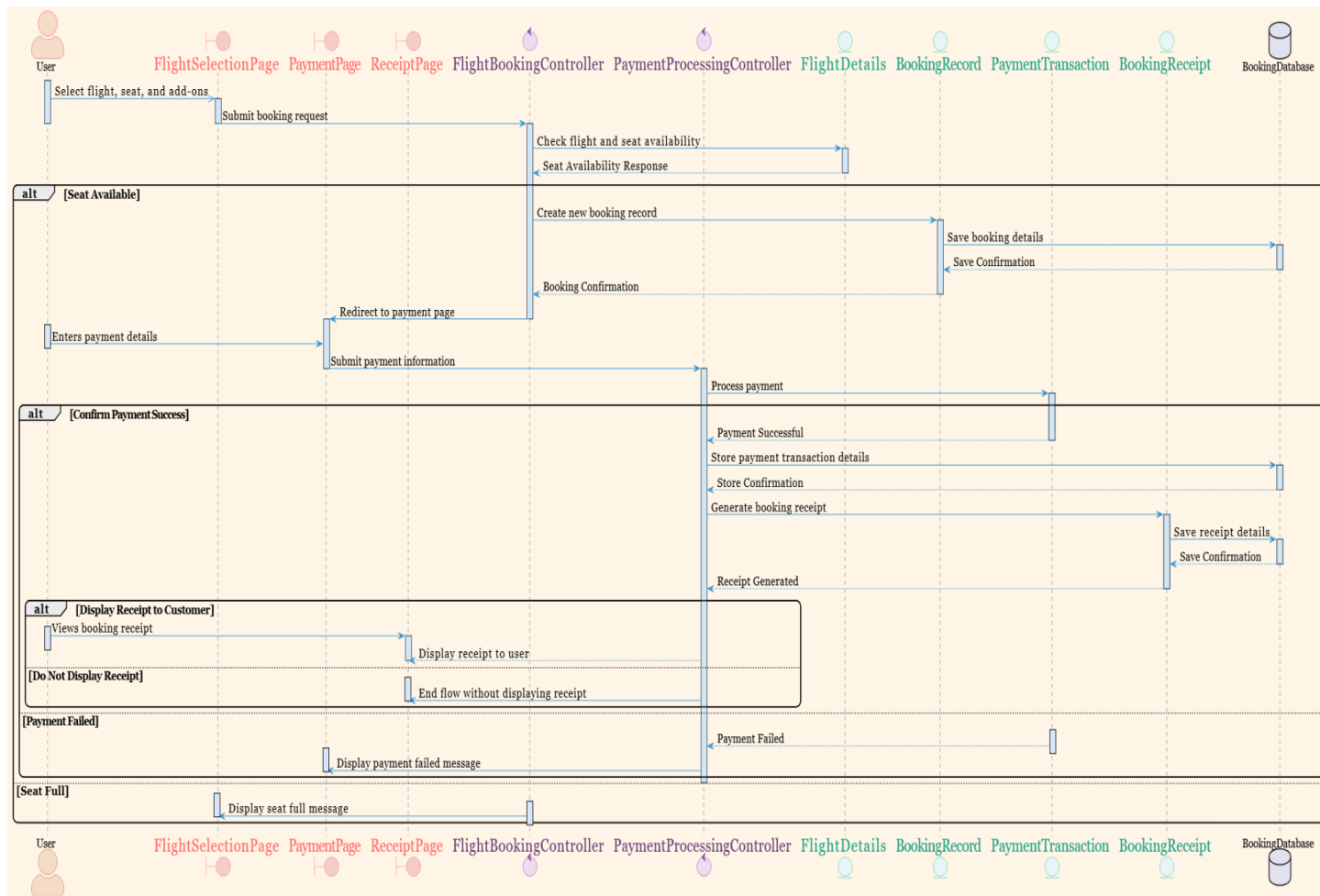


Sprint 3: Flight Booking & Payment Integration

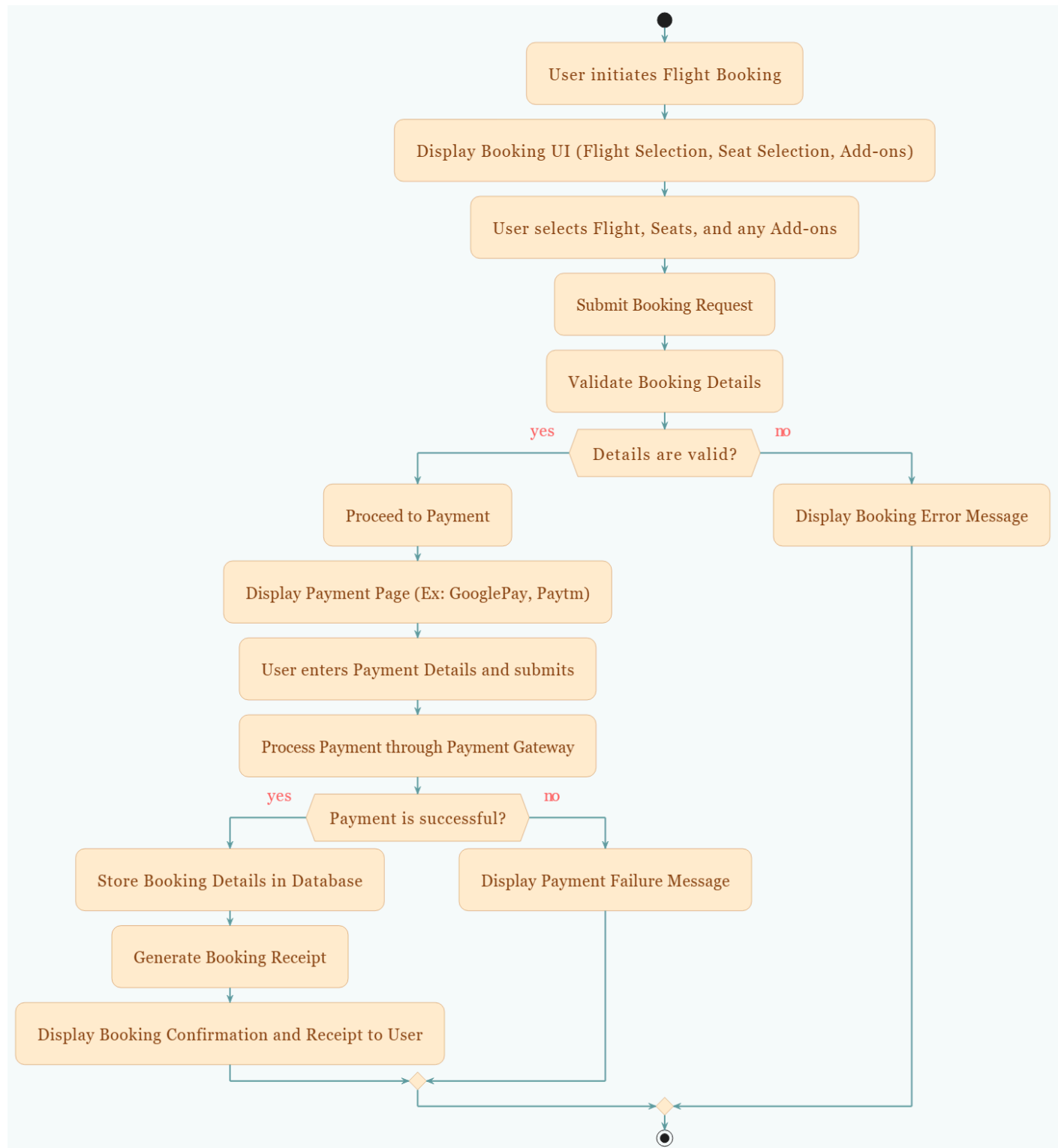
3.a) Class Diagram



3.b) Sequence Diagram

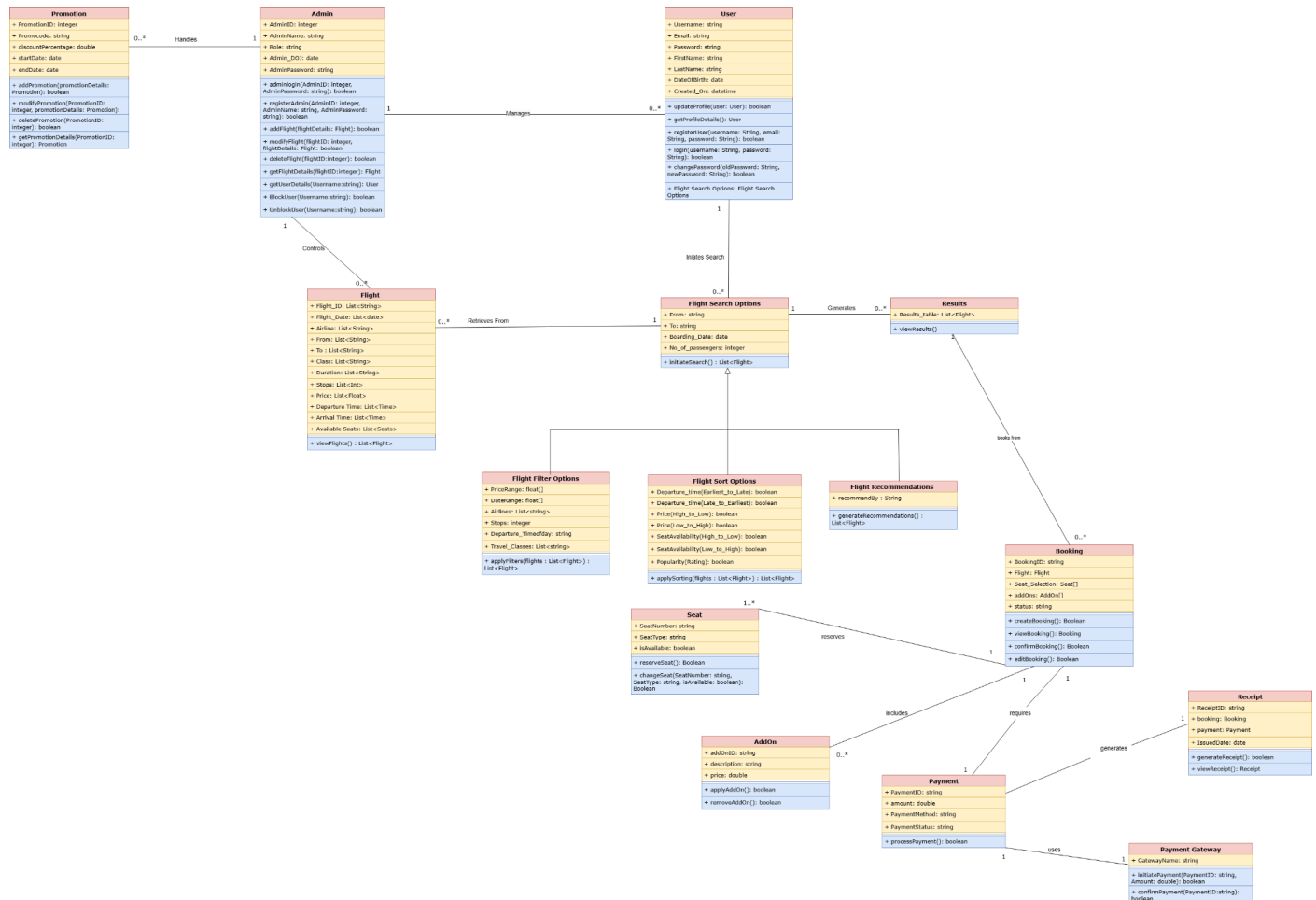


3.c) Activity Diagram

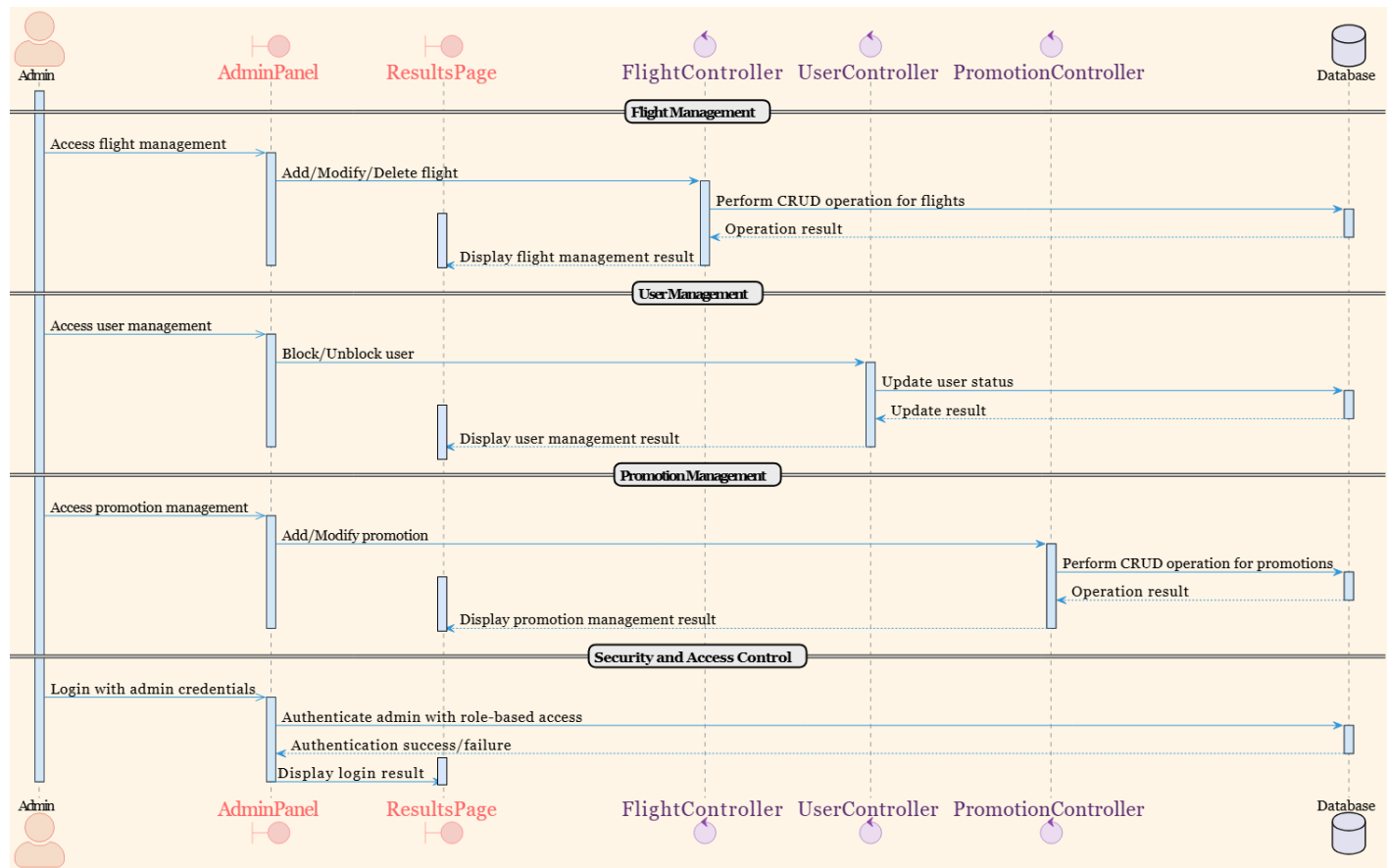


Sprint 4 :Admin Panel & UserManagement

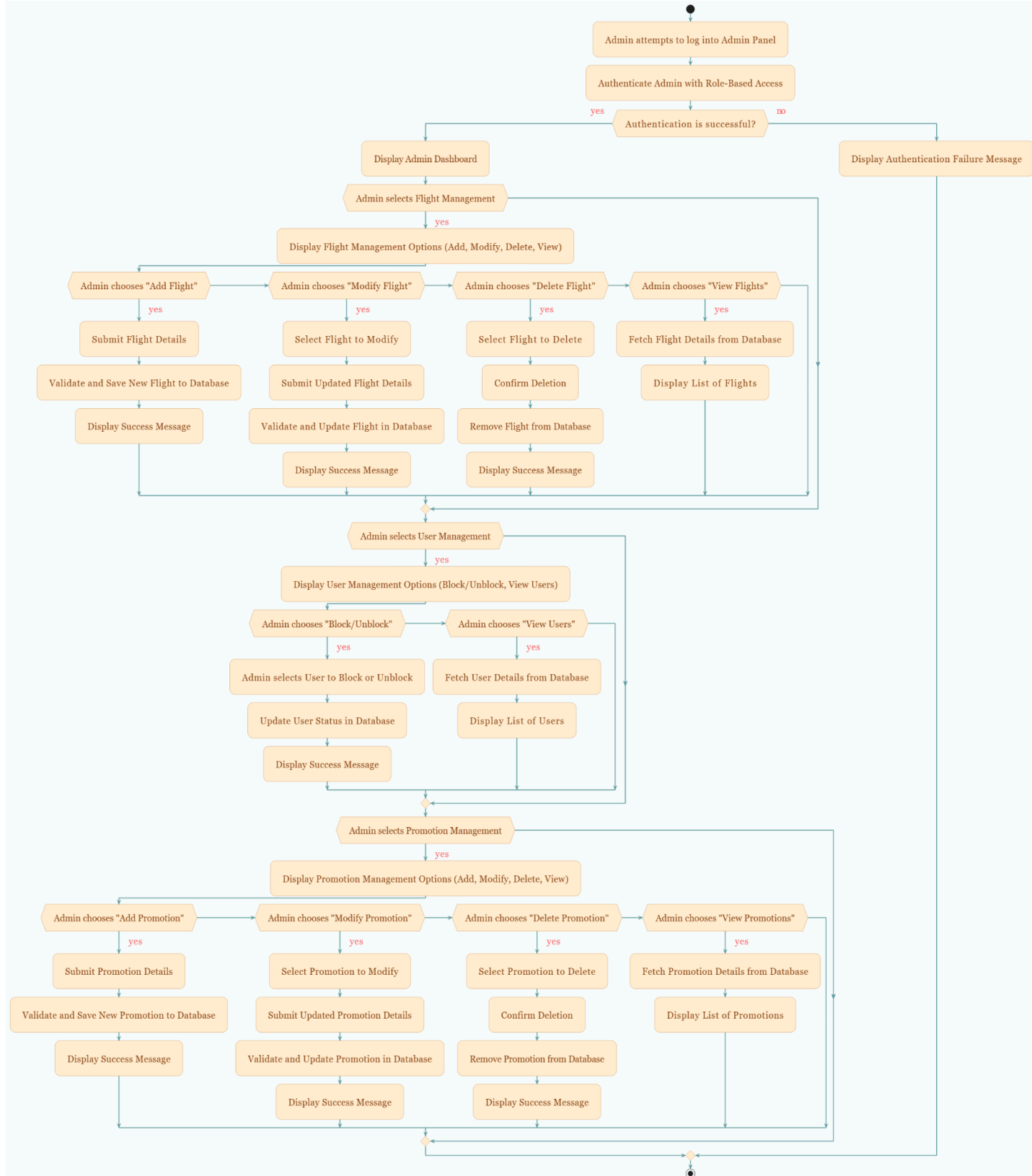
4.a) Class Diagram



4.b) Sequence Diagram

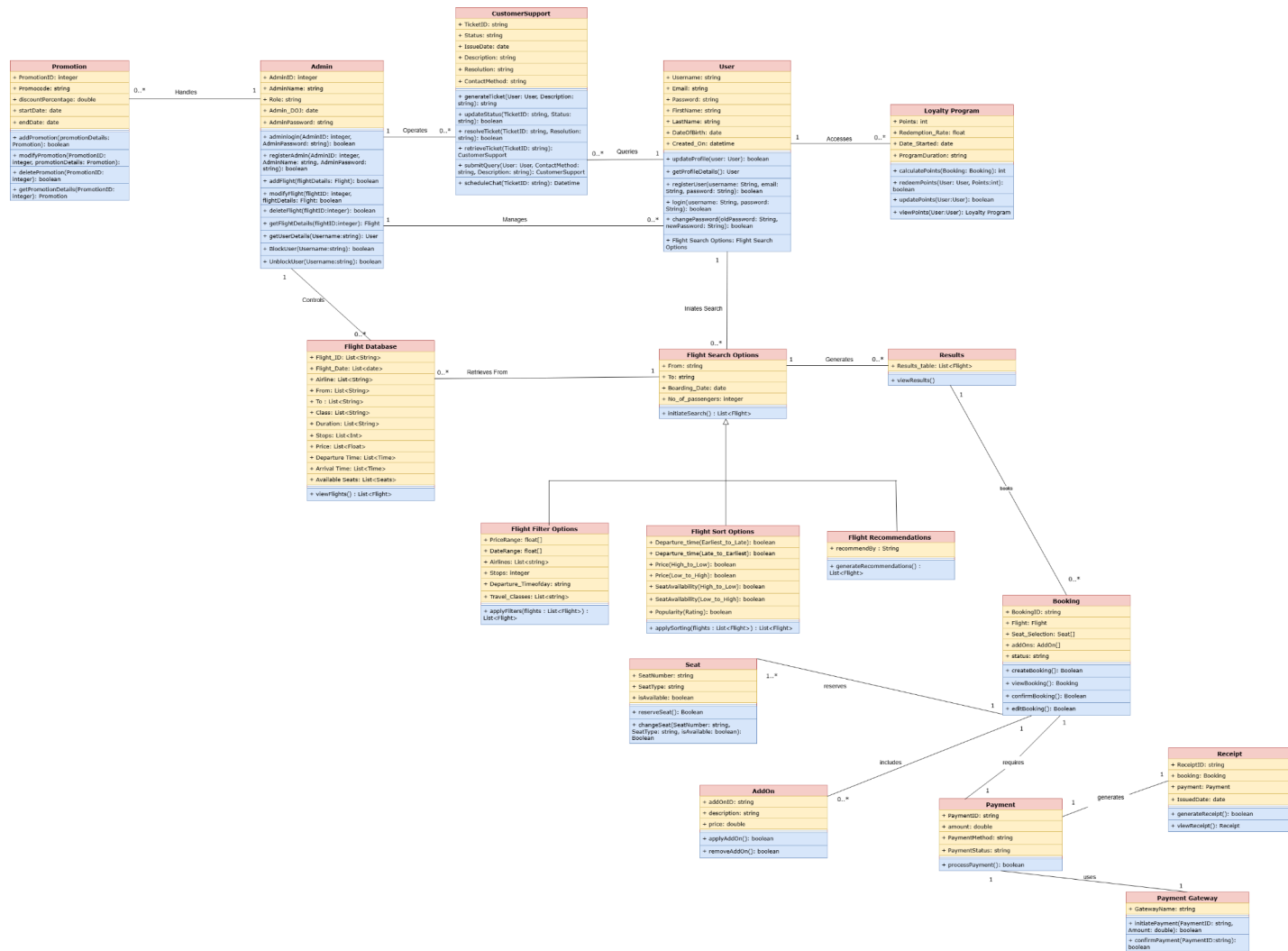


4.c) Activity Diagram

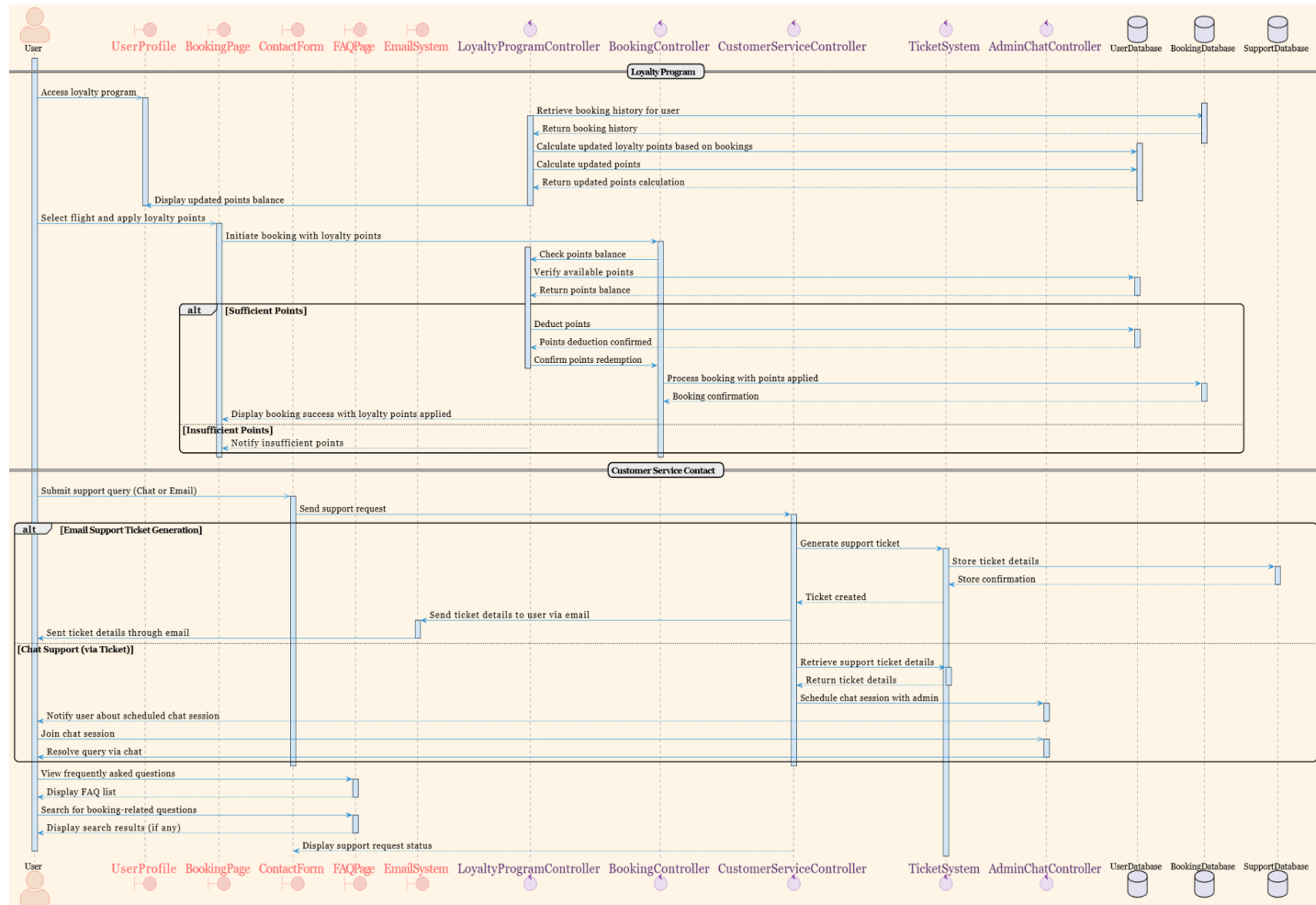


Sprint 5 :Loyalty Program & Customer Service

5.a) Class Diagram



5.b) Sequence Diagram



5.c) Activity Diagram

