# .NET Core Azure

# Sprint-1

## Online Flight Management (OFM)

 

Document Revision History

| Date | Revision No. | Author | Summary of Changes |
|---|---|---|---|
| 16-07-2020 | 1.0 | RamKumar | Created as per new curriculum |
| 27-07-2020 | 1.1 | RamKumar | Created as per Specific requirement |
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## INTRODUCTION

This document outlines a project for the .NET Line of Technology (LOT). The project is to develop Online Flight Management. This document contains the requirements, workflow of the system and gives guidelines on how to build the functionality gradually in each of the course modules of the .NET LOT.

## SETUP CHECKLIST

### Minimum System Requirements

- Intel Pentium 4 and above Windows 2007, 2008 and 2010
- Memory 4 GB
- Internet Explorer 11.0 or higher / Chrome
- SQL Server 2014 or 2016 client and access to SQL Server 2014 or 2016 server
- Visual Studio 2019
- Visual Studio Code
- Git

## INSTRUCTIONS

- The code modules in the project should follow all the coding standards.

## PROBLEM STATEMENT

### OBJECTIVE

Need to develop Online Flight Management System (OFM) where passengers can able to book and buy airline tickets. It also maintains information on flights, classes of seats, personal preferences, prices, and booking details.

**Abstract of the project**

**Online Flight Management (OFM)** is an application, which develops a user interface for Flight Management companies. It provides ease flight management and to create a convenient and easy-to-use application for passengers, trying to buy airline tickets. It maintains information on flights, flight preferences along with booking details.

Agents can perform below tasks:

1. Book Tickets
2. Search Flight details

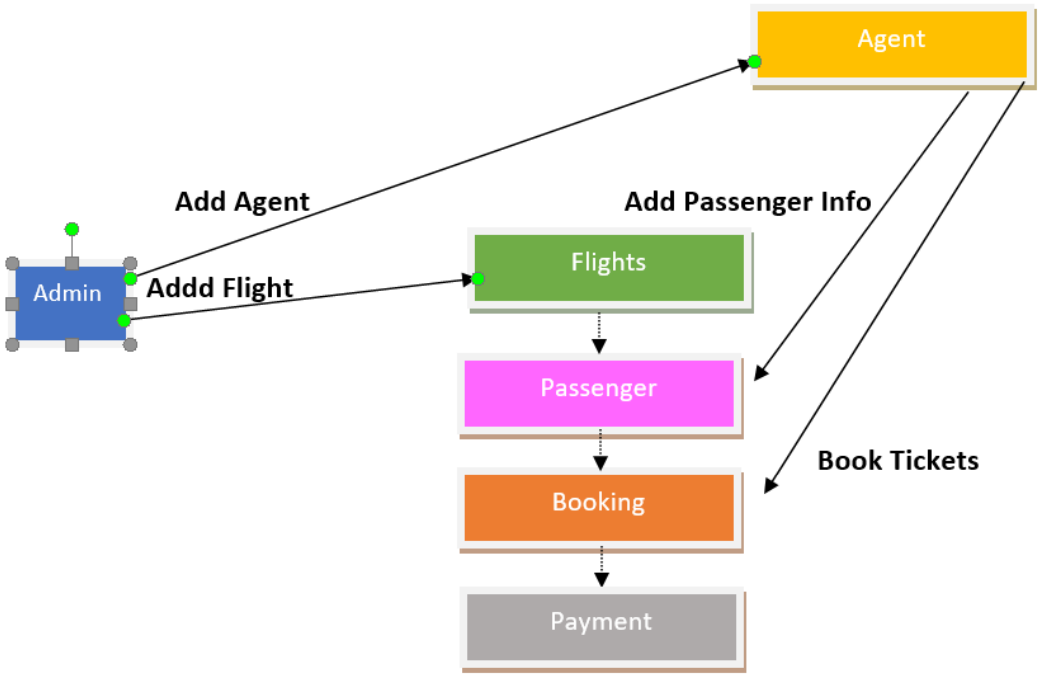
Customers can perform below tasks:

1. Search Flight details

**MODULE LIST and MODULE DETAILS:**

- Admin
- Agent
- Passenger
- Flight
- Bookings



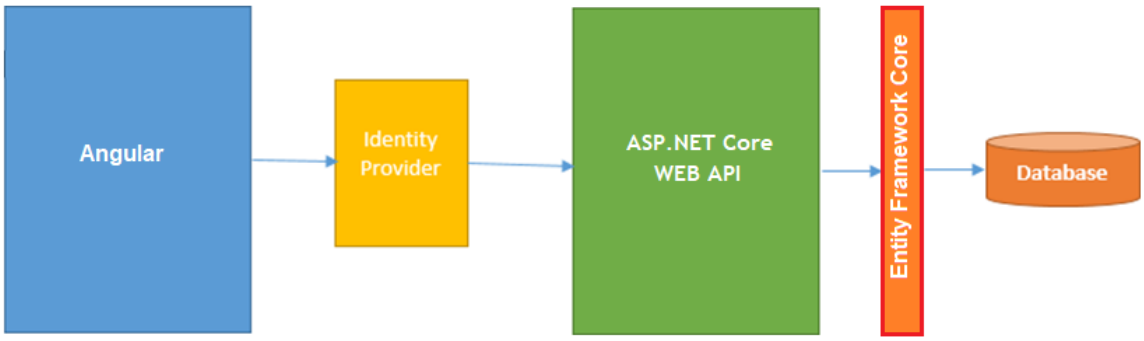
## PROJECT STRUCTURE

**Description:** Create below sample reference project structure, which will help to reuse most of module for Web application. You are allowed to bring your own project structure and project to achieve the requirement.

In this sprint you have to use

- Angular UI as the presentation layer
- ASP.NET Core WEB API to create services
- Entity Framework Core to interact with the database.

The project should have minimum target framework – .Net Core 3.1 for Core WEB API Services and Angular 10 for UI Design




**Design guidelines**

- All the exceptions/errors to be captured and user-friendly message to be displayed on the Common Error page.

## IMPLEMENTATION

### SUMMARY OF THE FUNCTIONALITY TO BE BUILT:

The participants need to develop the Online Flight Management System by building the functionality incrementally in each of the course modules of .NET LOT.

| Sr. No | Course | Duration (in PDs) | Functionality to be built |
|---|---|---|---|
| 1 | Angular<br>ASP.NET Core Web API<br>Entity Framework Core<br>SQL Server | 5 | Developing Presentation components (Angular), Business components (ASP.NET Core WEB API) and Data access components (Entity Framework Core) |