MOVIE TICKET BOOKING

CONTENTS

1 PROBLEM STATEMENT

Build a software system which lets user search for a Movie Ticket and book it & includes Admin related activities. User can also cancel or update the Ticket.

Below are the different roles, which need to be supported by above Software System.

1. User
2. Admin

The scope includes developing the application using dot net core as the backend and for end use react.

For mobile application use flutter

2 BUSINESS REQUIREMENTS:

As an application developer, develop microservices with below guidelines:

User Story #	User Story Name	User Story
US_01	User Mode	1. User can search for a Movie based on date/time, from place 2. Each Search result need to display Movie Date/time, Movie Name/Image, Price 3. From Search results, User should be able to select a specific Movie and go ahead and complete Ticket Booking by providing below details • Name and Email ID • Number of seats to book. • Details of each Customer (NAME: GENDER: AGE) • Opt for Meal (Veg/Non veg) • Select Seat Number(s) 4. On successful Ticket Booking, Ticket number need to be generated, it should be possible to download TicketBooking can be done a Logged in User only 5. With email id user should be able to • view History of Ticket Bookings, • Cancel a Ticket only prior to a day (24 hrs.) before show date. 6. With Movie Ticket number view the booked ticket details
US_02	Admin Mode	1. Admin shall be able to login/logout. 2. There can be pre-defined username/password for Admin. 3. Admin shall be able to add/block a Movie. When Movie is Blocked, Movies will not be shown in Search results. 4. Admin shall be able to add Inventory/Schedule of an existing Movie by specifying below details: • Movie number

		• Movie Name • Place • date time, • Scheduled Days (Daily, Week Days, Week Ends, For specific days specify the list of Days like Mon, Wed) • Movie Show type (3d, normal, etc…) • Total number of VIP class Seats • Total number of non-VIP class Seats • Ticket cost (consider taxes and other charges), • number of rows, • meal (none, veg, non veg)

3 PROPOSED REST ENDPOINTS TO BE EXPOSED

3.1 REST APIS:

POST	**/api/v1.0/ movie /booking/register**	**New ticket booking**
POST	**/api/v1.0/movie/admin/login**	**Admin login**
POST	**/api/v1.0/ movie/inventory/add**	**Add Inventory/Schedule of an existing ticket**
POST	**/api/v1.0/ movie /search**	**Searches for movie**
POST	**/api/v1.0/ movie /booking/{MovieId}**	**Book ticket**
GET	**/api/v1.0/ movie /ticket/{TicketNumber}**	**Get Booked ticket details based on Ticket Number**
GET	**/api/v1.0/ movie /booking/history/{emailId}**	**Get Booked tickets history based on Email ID**
DELETE	**/api/v1.0/ movie /booking/cancel/{ TicketNumber }**	**Cancel a booked ticket**

4 KEY RUBRICS/EXPECTED DELIVERABLES

As an application developer:

a. Ensure layer project Structure with proper naming conventions and model classes.
b. Use application.json file to maintain all configuration like connection string
c. Implemented the layered structure - Controller, Interface, Service, DAO, Testing, Validation, Security etc
d. Secure all Rest End Points by configuring SSL Certificate for Cloud

5 PLATFORM

Use above Business Requirements to implement the below.

1. Use Azure to deploy application on cloud.
2. Use Azure SQL Server as a database for the Application.
3. Use Azure Functions and DB to build a backend process for handling requests for Movie Ticket Booking App.
4. Add images on Blob storage
5. Use Azure Service to send email after booking.

Note: Minimum 2APIs (UI+Backend) to be hosted in cloud