Book My Show Application:

App Idea: Booking or Registering Tickets for Shows

App Features:

- Customer can Buy Tickets for Shows
- Customer must login to buy tickets.
- Customer can select theatres based on location
- Customer can select date and check availability of seats
- Customer can use various payment portals
- Customer can use personal profile and can update the details
- Customer can check personal booking history
- Customer will get notified based on booking
- Customer can call for help and support or check FAQ's
- Customer gets updated about the feature updates.
- Customer can search for his required show
- Customer can filter his requirements

App Tech:

- Angular (SASS and Bootstrap for Styling)
- .Net Core
- MS-SQL
- Dapper –
    - Provides faster data access.
    - MicroORM's provide raw speed compared to ORM's.
- Autofac –
    - Clear documentation, feature rich and larger community.
- Code Repository – Git
- Deployment – Azure
- NLB – Network Load Balancer

App Sketch:

- NavBar, Sub-NavBar, Recent releases
- Home Page (Best of services …)
- Movies Page (Based on location(mandatory) …)
- Search section (search for shows etc…)
- Location Picker Section (Pick or auto detect location)
- Booking Page (Contains about, booking proceeds, cast details etc …)
- Booking Selection Page (various availability and provisions to book the shows)
- Theatre Seat Selection Page
- Payment page (confirm and block the booking)

- Confirmation Page (Display confirm msg and ticket)

App Specifications:

- Customer can either be logged in or not
- Customer searches for his movie choice
- Customer selects the movie
- Customer selects his preferred date
- Customer selects the theatre
- Customer selects the screen and show
- Customer is requested to login if he/she's not
- Customer is directed to seat selection (selected seats are blocked)
- Customer is redirected to Payment Gatway and makes the payment
- Customer Bookings are confirmed and redirect to confirmation page
- Customer ticket is not displayed in Booking History
- Customer will now be notified ahead of time for the show

App System Design:

There will be two main components in the system

1. BMS App
2. Theatre Web-API (Serves to provide theatre list and availability)

BMS app can connect to Theatre API from any device

Theatre API needs its own server and database to provide its details

The App contacts the Theatre API to obtain the details and sync based on the customer selections and bookings.

We'll request the available seats from Theatres API and book using the API's.

We will block the tickets based on the IO Request and blocking.

- We can follow OS Scheduling Algorithms for the blocking and unblocking requests

Theatre API Requirements:

- List of cities
- Get Available Seats
- Get Show Timings
- Block Seats
- UnBlock Seats
- Book Seats
- Etc.

App WireFraming:

Database Structure:

Theatre WebApi

BMS FrontEnd

BMS BackEnd

[Testing, Beta, Production]

Deploy

[Define, Design, Develop, Test, Deploy] - Repeat Cycle