HOUSE BOOKING

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1 PROBLEM STATEMENT

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

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

1. User
2. Admin
3. Vendor

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 House based on place 2. Each Search result need to display House Name/Image, Vendor name, Price, Discount 3. From Search results, User should be able to select a House and go ahead and complete Booking by providing below details • Name and Email ID • Details of House • Person personnel details 4. On successful Order Booking, Order number need to be generated, it should be possible to download Order booking can be done a Logged in User only 5. With email id user should be able to • view History of order placed, • Cancel an order. 6. With Order ID view the booked order 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 House. When House is Blocked, Details belonging to that will not be shown in Search results. 4. Once product is approved by admin then only user can see the product listed by Vendor.
Us_03	Vendor Mode	1. Vendor should be able to list their products 2. Vendor should be able to manage inventory of their product 3. Vendor should be able to see order placed by the customer 4. Vendor shall be able to add Inventory of an existing item by specifying below details: • House Scheme Name • House Description • Place • House Size • House cost (consider taxes and other charges) • Discount

3 PROPOSED REST ENDPOINTS TO BE EXPOSED

3.1 REST APIs:

POST	/api/v1.0/House/user /register	New Order booking
POST	/api/v1.0/ House /admin/login	Admin login
POST	/api/v1.0/ House /airline/inventory/add	Add Inventory of an existing House
POST	/api/v1.0/ House /search	Searches for House
POST	/api/v1.0/ House /booking/{OrderID}	Book ticket
GET	/api/v1.0/ House /Order/{OrderID }	Get Booked Order details based on OrderID
GET	/api/v1.0/ House /booking/history/{emailId}	Get Booked Order history based on Email ID
DELETE	/api/v1.0/ House /booking/cancel/{ OrderID }	Cancel a booked order

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 House booking App.
4. Use Blob service to add image on blob storage.
5. Use Azure Service to send email after booking.

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