FOOD ORDERING

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1 PROBLEM STATEMENT

Build a software system which lets user search for a Food Item 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. Restaurant

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

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 Food item based on place/ Restaurant Name 2. Each Search result need to display Food Name/Image, Restaurant name, Price, Discount 3. From Search results, User should be able to select a Food item and go ahead and complete Food Item Booking by providing below details • Name and Email ID • Details of food item 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 Food Item. When Food Item 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 Restaurant.
Us_03	Restaurant Mode	1. Restaurant should be able to list their products 2. Restaurant should be able to manage inventory of their product 3. Restaurant should be able to see order placed by the customer 4. Restaurant shall be able to add Inventory of an existing item by specifying below details: • Food Name • Food Description • Place • Food Item cost (consider taxes and other charges) • Discount

3 PROPOSED REST ENDPOINTS TO BE EXPOSED

3.1 REST APIS:

POST	**/api/v1.0/food/user /register**	**New Order booking**
POST	**/api/v1.0/food/admin/login**	**Admin login**
POST	**/api/v1.0/ food /airline/inventory/add**	**Add Inventory of an existing Food Item**
POST	**/api/v1.0/ food /search**	**Searches for Food Items**
POST	**/api/v1.0/ food /booking/{OrderID}**	**Book ticket**
GET	**/api/v1.0/ food /ticket/{OrderID }**	**Get Booked ticket details based on OrderID**
GET	**/api/v1.0/food/booking/history/{emailId}**	**Get Booked tickets history based on Email ID**
DELETE	**/api/v1.0/food/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 Food Ordering 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