

E-SHOPPING

CONTENTS

1	Problem Statement.....	2
2	WIREFRAMES	3
3	Business Requirements:.....	4
4	Proposed Rest Endpoints to be exposed	5
4.1	Rest APIs:.....	5
5	Key Rubrics/Expected Deliverables.....	5
6	Platform	5

1 PROBLEM STATEMENT

Build a software system which lets user search for a product and purchase it & includes Admin related activities. User can also cancel the order.

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

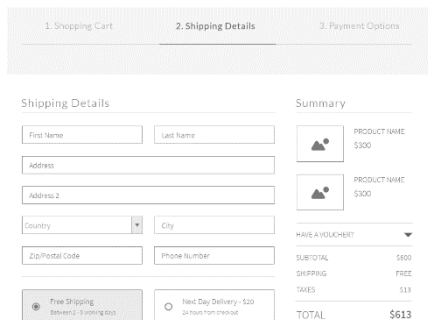
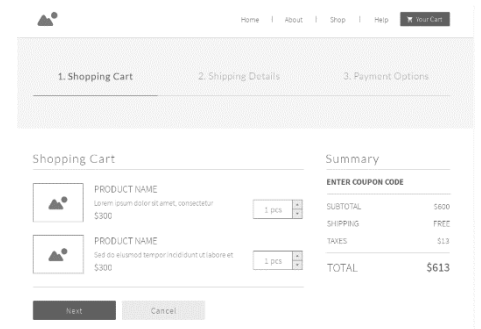
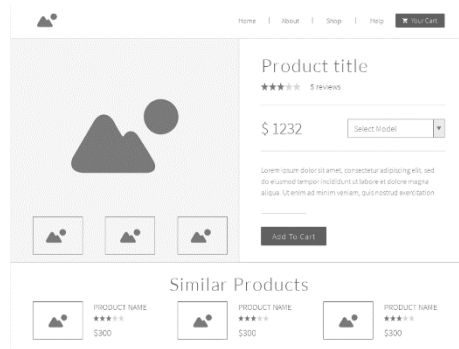
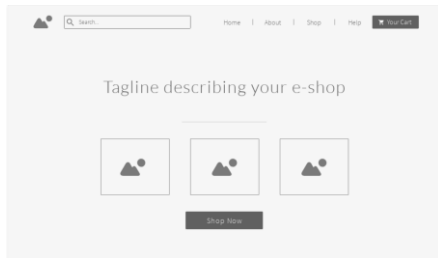
1. User
2. Admin

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

For mobile application use flutter

2 WIREFRAMES

UI needs improvisation and modification as per given use case.



3 BUSINESS REQUIREMENTS:

As an application developer, develop microservices with below guidelines:

User Story #	User Story Name	User Story
US_01	User Mode	<ol style="list-style-type: none">1. User can search for a Product based on any text2. Each Search result need to display Product details, product Name/image, Price (to & round trip – TBD)3. From Search results, User should be able to select a product and go ahead and complete order Booking by providing below details<ul style="list-style-type: none">• Name and Email ID• Quantity.• Address.4. On successful Order Placement, OrderID need to be generated5. With Order ID user should be able to<ul style="list-style-type: none">• view Orders placed,• Cancel an Order.6. With OrderID view the order details
US_02	Admin Mode	<ol style="list-style-type: none">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 product. When product is Blocked, product will not be shown in Search results.4. Admin shall be able to add Inventory of an existing product by specifying below details:<ul style="list-style-type: none">• Product ID5. Admin shall be able to add product with below details: -<ul style="list-style-type: none">• Product name• Product Description• Category• Product discount• Product MRP• Product selling price

4 PROPOSED REST ENDPOINTS TO BE EXPOSED

4.1 REST APIs:

POST	/api/v1.0/eshopping/user/register	New user register
POST	/api/v1.0/eshopping/admin/login	Admin login
POST	/api/v1.0/eshopping/catalog/inventory/add	Add Inventory
POST	/api/v1.0/eshopping/search	Searches for product
POST	/api/v1.0/eshopping/order/add	Place order
GET	/api/v1.0/eshopping/order/{OrderID}	Get order details based on orderID
GET	/api/v1.0/eshopping/order/history/	Get orders history
DELETE	/api/v1.0/eshopping/order/cancel/{OrderID}	Cancel an order

5 KEY RUBRICS/EXPECTED DELIVERABLES

As an application developer:

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

6 PLATFORM

Use above Business Requirements to implement the below.

- Use Azure to deploy application on cloud.
- Use Azure SQL Server as a database for the Application.
- Use Azure Functions and DB to build a backend process for handling requests for E-Shopping App.
- Use Azure Service to send email after order placement.

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