# # Onlineshopping - A Case Study

**## Problem Statement**

Build a system to search for a onlineshopping , get Products statistics and ad d Products to favourite list.

# ## Requirements

find onlineshopping Products, get Products statistics and add Products to fav ourite list.

**-** Logout feature should be implemented.

* User can add a Products to favourite list and should be able view the favour ite list.
* JWT authentication(Optional)
* Sorting and pagination (optional)

# ## Modules

**### (User interface) - should be able to**

* + Register user, login and logout
  + Search a Products by name
  + View Products statistics
  + Add a Products to favourite list
  + should be able to see favourite Products

# ### UserService

* + Creating a server in Asp.net Core

APIto facilitate user registration and login using Sql Server

* + should be able to manage user accounts.

# ### FavouriteService

* + should be able to store all the favourite Products for a user

# ## Tech Stack

* + - Asp.net Core Web API
    - Entity Framework Core
    - SQL Server
    - React

# ## Flow of Modules ### Building

* + - * Register/Login
      * Search for a Products
      * Products list - populating from external API

# ### Building the UserService

1. Creating a server in Asp.net Core

APIto facilitate user registration and login with Sql Server as backend. Upon login.

1. Writing swagger documentation
2. Unit Testing of the entire code which involves the positive and negative scenarios

# ### Building the Favourite Service

1. Building a server in Asp.net Core

APIto facilitate CRUD operation over favourite Products stored in Sql Server.

1. Writing Swagger Documentation
2. Write Unit Test Cases and get it executed.

# ### Demonstrate the entire application

* 1. Make sure all the functionalities are implemented
  2. server side (For all layers) codes are unit tested.