

**NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES  
ISLAMABAD CAMPUS  
WEB PROGRAMMING (CS406) - SPRING 2019  
ASSIGNMENT-3**

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**Due Date: April 15, 2019 (05:00 pm)**

**Instructions:**

1. *Make sure that you read and understand each and every instruction.*
2. *You are not allowed to use templates from online.*
3. *It is must for the application to be responsive.*
4. *Plagiarism is strongly forbidden and will be very strongly punished. If we find that you have copied from someone else or someone else has copied from you (with or without your knowledge) both of you will be punished. You will be awarded straight zero in this assignment.*
5. *Any resemblance with the UI of OLX, shopify, Ebay, Craigslist, etc. will result in straight zero.*
6. *This project requires both a front end, and a backend, with emphasis on the backend functionality.*
7. ***All important data must be saved and managed by an Entity Framework, code first approach.***
8. *You are responsible to validate all the entered data with the help of validators.*
9. *Submit a single '.zip' file for your assignment that will have all your files.*
10. *There will be a demo for this assignment; the dates of which will be announced at a later date.*

OLX is a global online marketplace, an operation that is a platform for buying and selling services and goods such as electronics, fashion items, furniture, household goods, cars and bikes. You have been hired by a company wishing to emulate OLX, to develop their own online marketplace titled **“YardStop”**, and become the next best thing. Your task for this assignment is to make them an online marketplace using **MVC ASP.NET**, which should possess the following features:

- A login page where an existing user can add his username and password and can sign in into the application.
- A register page where a user can register to the website by providing information like name, mobile number, email address and password.
- A profile page where a user can view his/her information, which includes personal information, profile picture and both **previous and current orders (for both buying and selling items)**. User can also update the information like mobile number, name, profile picture etc.
- A Home page where the user will see all popular items being sold/bought and will be able to search and filter results.
- When a product is being displayed, either in the feed or in products page, it should always show the **title, picture, availability (how many units left), demand (how many users wish to buy), and rating of the product (1-5 stars)**.
- The user should be given the ability to rate a **product (1-5 stars)**, to show how good the product is. The user should only be able to rate the product if
  - He has ordered the product (has clicked on **want item**)
  - Has bought the item previously
- The user should be given the ability to **demand a product (want item, don't want item)**.
- If the user wants to sell an item, then the user should a request to admin. Upon admin's approval the item will be added to website.
- All the products will be added by the admin whenever an item has been added to inventory or a user requests to sell a product.