

.NET Technology

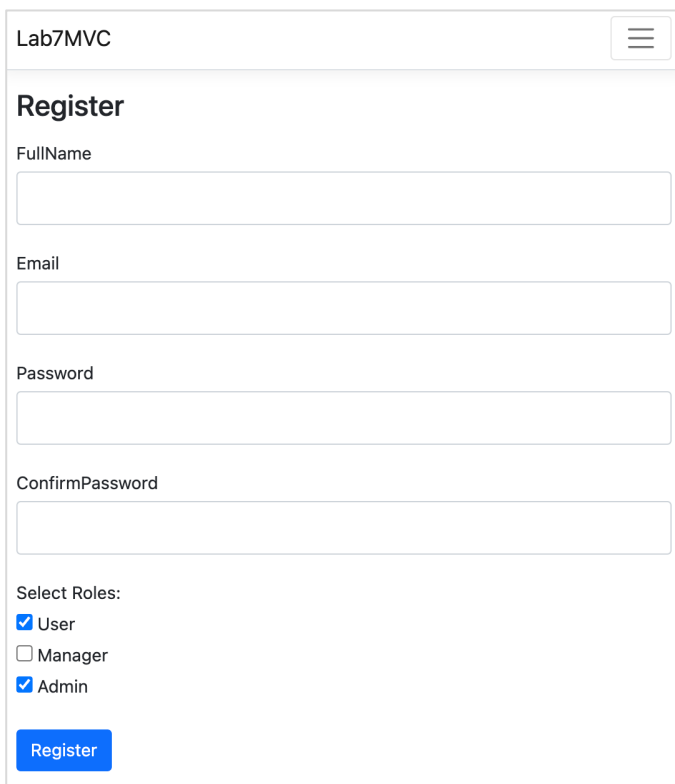
(503112)

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Lab 08: ASP.NET MVC (Continue)

Exercise: Continuing to work on last week's project, this week we focus on security related content. Before starting this week's exercise, make sure you have completed the requirements in last week's exercise, specifically creating a website that provides basic CRUD functions on two entities, Product and Account.

You need to add account registration and login functions. It should be noted that user account data is being stored in mssql database and processed by entity framework core. Each account needs to have at least information such as full name, email, password and roles. An account can have many different roles such as: [user](#), [manager](#) and [admin](#).



Lab7MVC

Register

FullName

Email

Password

ConfirmPassword

Select Roles:

☒ User

☐ Manager

☒ Admin

Register

An example of the register page: /Account/Register



Lab7MVC

Login

Email

Password

Login

An example of the login page: /Account/Login

Specific requirements:

1. Apply the **CookieAuthentication** mechanism to the web project, set the login path to [/Account/Login](#). When users access links requiring login, they will be automatically redirected to the login page.
2. Set the path [/Account/AccessDenied](#) for the access denied page. When a user is logged in but does not have sufficient permissions to access a resource, they will be automatically redirected to this link.
3. Use **TypeFilterAttribute** to create a new attribute, to apply to the two paths [/Account/Login](#) and [/Account/Register](#), preventing users who are already logged in from accessing these two paths. They will then be automatically redirected to another path, for example the home page.
4. Define 3 different roles including: **User**, **Manager** and **Admin**. Apply **role-based authorization** mechanism to Product Controller. For example, only the Admin role can perform Delete actions, only Admin and Manager can perform Edit actions, and all logged in users can perform Create actions.