To add Admin and Manager Roles to the version of WebCoreSalon-Own or ProductAndCategories:

1. Open the ProductAndCategories and Google “Getting started with Asp.Net Core Identity and Role Management”. Open MSDN related page with 7 steps and follow through or see the Word document bundled in the folder you found this file).
2. Note: After the startup.cs change, as per MSDN guide above, or the Word doc mentioned above, Identity model changes, therefore, do an ‘add-migration’ and an update-database’ before running the program. Besides, ensure the uswer to be set as manager is already registered, otherwise, you get a null exception.
3. On step 6 of msdn site above, “Create Manager Page (and ManagerController) and set Authorization” for Index() action method. Make sure to create Manager to set prices and Secretary to set Categories. Further, ensure email is right, e.g. [manager@shop.com](mailto:manager@shop.com)? Or [secretary@shop.com](mailto:secretary@shop.com), not [admin@salon.com](mailto:admin@salon.com), in the startup.cs!).
4. Select ‘MVC Controller with Views using Entity Framework’ option in creating controller, for 4 above. Pick up models Product for user ‘Manager’ and Category for user Secretary, from Models folder, in adding controllers. The controller & view will come in with CRUD as evident in Views -> Manager & Views -> Secretary.
5. Set Permission for ManagerController and SecretaryController to [Authorize(Roles = "Manager")] and [Authorize(Roles = "Secretary")], respectively. In this situation, after adding the line below to the ‘Shared ->Layout.cshtml, the ‘Admin Page’ (Manager & Secretary Pages always show but they will say “Access Denied” for non-authorised users such as [user2@shop.com](mailto:user2@shop.com). <li><**a** **asp-area**="" **asp-controller**="Manager" **asp-action**="Index">Manager Page</**a**></li> right after list-item <li><**a** **asp-area**="" **asp-controller**="Home" **asp-action**="Contact">Contact</**a**></li> in the shared layout.cshtml.
6. To make the page link ‘Admin Page’ (i.e. Manager & Secretary pages) to show in the Ribbon, only when ‘Admin’ is logged in use the following line in Layout.cshtml:
7. NB: To show dropdown list of, say Categories from 1, 2, 3 to their names on the lines starting with ViewData in Category Controller, for GET version of Edit and Create, change the second CategoryID to Name, in both cases.

@if (User.Identity.IsAuthenticated)

{

@if (User.IsInRole("Manager"))

{

<**a** **asp-area**="" **asp-controller**="Manager" **asp-action**="Index">Manager Page</**a**>

}

@if (User.IsInRole("Secretary"))

{

<**a** **asp-area**="" **asp-controller**="Secretary" **asp-action**="Index">Secretary Page</**a**>

}

}