# LAB3

# **Account Management**

### **CONTENT**

- Display user list
- Reset user password
- Block/Unblock user

#### **❖** INSTRUCTION

# A. Display user list

1. Create Admin Controller to handle user management actions

```
[Authorize(Roles = "Admin")]
public class AdminController : Controller
   private readonly UserManager<IdentityUser> _userManager;
   public AdminController(UserManager<IdentityUser> userManager)
       _userManager = userManager;
   public async Task<IActionResult> UserList()
       var users = await _userManager.Users.ToListAsync();
       var userList = new List<UserViewModel>();
       foreach (var user in users)
           var roles = await _userManager.GetRolesAsync(user);
           userList.Add(new UserViewModel
               Id = user.Id,
                Email = user.Email,
                Roles = roles.ToList()
           });
       return View(userList);
```

Figure 1 – Controllers/AdminController.cs



2. Create UserViewModel to store user details

```
public class UserViewModel
{
    public string Id { get; set; }
    public string Email { get; set; }
    public List<string> Roles { get; set; }
    public bool IsBlocked { get; set; }
}
```

Figure 2 - ViewModels/UserViewModel.cs

Create UserList view to display account list with roles and menu to reset pass
 & block/unblock user for non-admin accounts

```
@model List<web.ViewModels.UserViewModel>
<h2>User Management</h2>
<thead>
        ID
        Email
        Role
        Actions
   </thead>
   @foreach (var user in Model)
           duser.Id
           @user.Email
           @string.Join(", ", user.Roles)
           if (!user.Roles.Contains("Admin"))
                    </form>
                    @if (!user.IsBlocked)
                       <form asp-action="BlockUser" asp-route-id="@user.Id" method="post" style="display:inline;">
                          <button type="submit" class="btn btn-danger">Block User/button>
                    else
                       <form asp-action="UnblockUser" asp-route-id="@user.Id" method="post" style="display:inline;">
                          <button type="submit" class="btn btn-primary">Unblock User</button>
                       </form>
           </thody>
```

Figure 3 - Views/Admin/UserList.cshtml



# 4. Add new menu to navigation bar for only admin role

Figure 4 - Views/Shared/\_Layout.cshtml

#### Result

#### **User Management**



Figure 5 - User Management page

#### **B.** Reset User Password

## 1. Add new method to reset password in AdminController

```
public async Task<IActionResult> ResetPass(string id)
    var user = await _userManager.FindByIdAsync(id);
    if (user == null)
        TempData["Error"] = "User not found.";
        return RedirectToAction("UserList");
    // Generate a password reset token
    var token = await _userManager.GeneratePasswordResetTokenAsync(user);
    var newPassword = "123@Abc";
    // Reset the password using the token
   var result = await _userManager.ResetPasswordAsync(user, token, newPassword);
    if (result.Succeeded)
    {
        TempData["Message"] = $"Password for {user.Email} has been reset to default (123@Abc)";
   }
   else
    {
        TempData["Error"] = $"Failed to reset password for {user.Email}";
    return RedirectToAction("UserList");
```

Figure 6 - Controllers/AdminController.cs



2. Update UserList view to display message after resetting password (and also for blocking/unblocking user – we do later)

Figure 7 - Views/Admin/UserList.cshtml

#### Result



# C. Block/Unblock User

1. Add new method to block user in AdminController

```
[HttpPost]
public async Task<IActionResult> BlockUser(string id)
{
    var user = await _userManager.FindByIdAsync(id);
    if (user == null)
    {
        TempData["Error"] = "User not found.";
        return RedirectToAction("UserList");
    }

    // Set a very far lockout end date to block the user
    var lockoutEndDate = DateTimeOffset.UtcNow.AddYears(100);
    var result = await _userManager.SetLockoutEndDateAsync(user, lockoutEndDate);

if (result.Succeeded)
    {
        TempData["Message"] = $"User {user.Email} has been blocked.";
    }
    else
    {
        TempData["Error"] = $"Failed to block user {user.Email}.";
    }

    return RedirectToAction("UserList");
}
```

Figure 8 - Controllers/AdminController.cs



#### 2. Add another method to unblock user

```
[HttpPost]
public async Task<IActionResult> UnblockUser(string id)
{
    var user = await _userManager.FindByIdAsync(id);
    if (user == null)
    {
        TempData["Error"] = "User not found.";
        return RedirectToAction("UserList");
    }

    // Set lockout end date to null to unblock the user
    var result = await _userManager.SetLockoutEndDateAsync(user, null);

    if (result.Succeeded)
    {
        TempData["Message"] = $"User {user.Email} has been unblocked.";
    }
    else
    {
        TempData["Error"] = $"Failed to unblock user {user.Email}.";
    }

    return RedirectToAction("UserList");
}
```

Figure 9 - Controllers/AdminController.cs

# 3. Prevent user login to system after blocking

Figure 10 - Startup.cs

#### **❖** Result



