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# *Lab 1*

**Name: Izeldine Al-amine**

**Student Number: 000854671**

**Lab Number: Lab 1**

## Employee

## Email: [employee@test.com](mailto:employee@test.com)

**Password: Password123!**

**Admin**

## Email: supervisor@test.com

**Password: Password123!**

**Unauthorized user**

**Email:** [**mohawkcollege@gmail.com**](mailto:mohawkcollege@gmail.com)

**Password:Izeldine000854671**

## *Lab Status*

## Working:

## An ASP.NET Core MVC project has been created using an identity system.

## Custom ApplicationUser has been built (FirstName, LastName, City).

## Applied migrations and seeded the database with the Supervisor and Employee roles.

## Created and confirmed Supervisor and Employee accounts.

## Scaffolded Companies Controller and linked it to the database.

## Implemented role-based access control (Supervisor = full access, Employee = read-only access).

## Not Working / Issues Encountered:

## Implemented a fix to confirm emails after an initial failed login.

## Conflicts caused duplicate users on the AspNetUsers table until they were resolved manually.

## Additional work on Program.cs and SeedData.cs to meet identity convention standards.

## *Three Things I Learned*

## How to customize the ASP.NET Identity system by extending the ApplicationUser model to include additional properties.

## How to apply Entity Framework migrations to automate database schema changes and data population.

## How to configure role-based access control to manage permissions for certain controllers and their associated actions.

## *Three Areas I Need to Work On*

## • Streamlining the database by eliminating duplicate users and performing regular resets on seeded data.

## • Grasping the intricacies of Identity's password and account confirmation rules to troubleshoot login problems.

## • Improving familiarity with scaffolding controllers and personalizing the views that are automatically generated.

## *5 Key Screenshots*

**Screenshot 1: User registers a new account**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screenshot 2: User confirming email**

**A close up of a computer screen

AI-generated content may be incorrect.**

**Screenshot 3: Supervisor logs in successfully**

**A screenshot of a login form

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screenshot 4: Employee logs in successfully**

**A screenshot of a login form

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screenshot 5: Unauthorized user blocked from Companies page**

**A white rectangular object with a black border

AI-generated content may be incorrect.**

**Screenshot 6: Supervisor adds a new company record**

**A white background with black text

AI-generated content may be incorrect.**

**A screenshot of a login box

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screenshot 7: Home Page without anyone logging in**

**A screenshot of a computer screen

AI-generated content may be incorrect.**