

Assignment 4: Integrating Identity System with Task Management System

Course: PROG30000

Overview

In this assignment, you will integrate the TaskManagement system that was developed and create protected endpoint and integrate with the Identity Management system developed in the class

Learning Objectives

By completing this assignment, you will be able to:

- Design and implement a RESTful API using ASP.NET Core WebAPI following Enterprise Architecture. (Already built in previous weeks in the class)
- Implement an ASPNETCore Identity system using SQLite (developed in the class)
- Protect the endpoints of the TasksController using [Authorize]
- Use Identity Management to issue JWT token
- Call your Tasks endpoints using the JWT token
- Create architecture diagrams / sequence diagrams to show authentication flows
- Test APIs using Postman

Project Requirements

You will build the tasks management and the identity using the content in the slate

8. Clean Architecture (TaskManagement)
9. Security (ASP.NETCoreIdentityHandsOn)
10. Security Part 2

If you have already done this work in the class, then you can just focus on submitting the assignment with the following:

Assignment Submission Requirements

Please demo the finished task management and identity management solutions in Postman **by Nov 28 or earlier** in class.

- Make API call to register a user
- Make API call to login and receive a token
- Make API call to get a list of tasks
- make API call to create a task

Submit to Slate before deadline the following

- Commit history of your work
- Architecture diagram/ Sequence showing the following flows
 - o User is registering for an account
 - o User logs in to the identity service
 - o User makes an API call to get the list of tasks

Grading Rubric

Your assignment will be evaluated based on the following criteria:

Criterion	Weight	Description
Integration demo in class	60%	Show me in class before Nov 28, the following 5 API calls using postman register for an account, login to identity, call API to get a list of tasks
Architecture/Sequence diagrams	20%	Diagram showing the flows for authentication and authorization
Git Commit History/ code	20%	ZIP of source code and git commit history

Total: 100%

Please note: If the integration demo is not given in the class, you will receive 0pt for the assignment

Late submission is -10% for each day and after 3 days, it will not be accepted