# Web Programming 3 (420-5W6) Milestone 2 [Individual] (15%)

Objectives:

**Develop a Web API application implementing token-based authentication with JSON Web Tokens (JWT):**

**- Implement user registration, login, and authentication using secure tokens.**

**- Generate access and refresh tokens for enhanced session management.**

**- Configure role-based authorization for granular access control.**

**- Leverage the Identity platform for comprehensive user management.**

**- Persist data in a database utilizing Entity Framework Core.**

Due Date & Requirements:

* **Sunday** **November 10th at 23:59 on Lea.**
* Submit on Lea: one Zip folder containing the project with its solution file (.SLN)
* Deductions for late submissions is 10%/day, up to a maximum of 3 days. Better late than never.
* Cheating or Plagiarism will result in 0% and the student(s) will be automatically reported to Registrar.
* **To reduce size, clean your project before submitting**: Visual Studio 🡺 Build 🡺 Clean Solution
* Before submitting make sure your project’s connection string is exactly this:

"Server=(localdb)\\MSSqlLocaldb;Database=Milestone2;Trusted\_Connection=true;MultipleActiveResultSets=true; Integrated Security=true;Connect Timeout=30;"

## Tasks

1. Login Linked-In Learning with your JAC credentials.   
   Click on: **Please follow this link to Start Now!**  
   <https://johnabbott.qc.ca/linkedin-learning/>
2. Complete the Course:   
   <https://www.linkedin.com/learning/asp-dot-net-core-token-based-authentication/>
3. Complete the code from Chapter 2 and 3 in the provided start up project.
   1. Add the startup project to your Github account and do commits often. Take a screenshot of the gitcommits history when submitting the source code on Lea.
4. Save the diploma/certificate generated at the end with your name on it.
5. To prove you completed the course, take multiple screenshots of the completed course.   
   Each screenshot must show the green checkmarks  for each video, the Quiz grade(s) and your name as proof.

Add this header in all the created Controllers.

/\*Course: Web Programming 3

\* Assessment: Milestone X

\* Created by: STUDENT NAME - ID

\* Date: <DAY> <MONTH> 202x

\* Class Name: XYZ.cs

\* Description: Explain what the class stores and its functionality.

\* Time Task B): Record how long did this tutorial take you to do without breaks, in hours.

## Bonus 10%

Write a short proposal and get it approved by your teacher.

## Demo

The student must first submit the projects, then must demonstrate these projects at the teacher’s specified time in class. The teacher will announce exactly when to demo.

During the demo, the student will be asked understanding questions related to this assessment. Correct answers will be given full points. Incorrect answers will be penalized. Missing steps from the tutorial will be penalized heavily.

The demo grade will be final for this assessment.

**Important**:

Not demonstrating at the teacher’s specified time in class results in -40%.   
Demonstrating professionalism and the ability to accept constructive feedback are critical skills to develop and will be assessed as part of the graded demo.   
If the student demos a project that was not made by them from the provided starting point, the student will receive 0%.

**Demo preparation**

A fresh copy of what was submitted on Lea will be used. Make sure it the project can run correctly for the demo and no extra steps are necessary.

## Submit Instructions

* Add this header to every class you create:

/\*

\* Course: Web Programming 3

\* Assessment: Milestone X

\* Created by: STUDENT NAME

\* Date: DAY MONTH 202\_

\* Class Name: \_\_\_\_.cs

\* Description: Explain what the class stores and its functionality.

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* On Lea, submit one zip file containing:
  + The diploma/certificate for the video training and screenshots of the completed chapters.
  + The completed ASP.NET project.
  + The screenshots of the gitcommits history.
* **To reduce size, clean your project before submitting**:   
  Visual Studio 🡺 Build 🡺 Clean Solution
* Before submitting make sure your project’s connection string is exactly this:

"Server=(localdb)\\MSSqlLocaldb;Database=Milestone2;Trusted\_Connection=true;MultipleActiveResultSets=true; Integrated Security=true;Connect Timeout=30;"