#### Centennial College

# code.NET

Video Streaming Platform API

Jai Patel and Anmol Singh

#### **Table of Contents**

- 1. Introduction
- 2. Problem Statement
- 3. Proposed Solution
- 4. Technologies Used
- 5. Implementation and Skills Learned
- 6. Dependencies
- 7. Application Structure for API
- 8. Models
- 9. Data Transfer Objects
- 10. Repository
- 11. Controllers
- 12. Mapper
- 13. AWS
- 14. APIGEE
- 15. Consuming API Through ASP.NET Web MVC HTTP-Client

#### 1. Introduction

Code.NET is a multipurpose managed web API built on ASP.NET ReSTful WebAPI using C#. The API is capable of reading, creating, updating, and deleting Client and Tutorial Information. The API also provides Tutorial Comments Section and Client Tutorial Section where Clients can perform read, create, and delete based on Tutorials. The API is available for use in any video or tutorial streaming platform.

#### 2. Problem Statement

In general building a tutorial or video streaming website from scratch could be a hassle for people who are working in small teams or limited time frame. It could be difficult for people without programming background and are starting their business or hobby to make such a website. So, How do we solve the issue of database and back end management?

## 3. Proposed Solution

Code.Net can help a group of people who want to build a tutorial website or a streaming website like Crunchyroll, or Edx. They can consume this API in their front-end application and won't need to worry about working in the database or back-end. Code.NET is lightweight lightning fast, and easy to manage.

API.

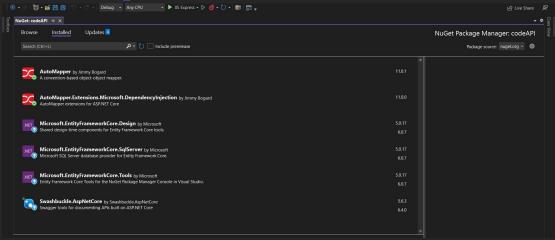
# 4. Technologies Used

- ASP.NET Core ReSTful Web API
- AWS RDS (MS SQL Server 2019)
- AWS Elastic Beanstalk
- Google APIGEE API management

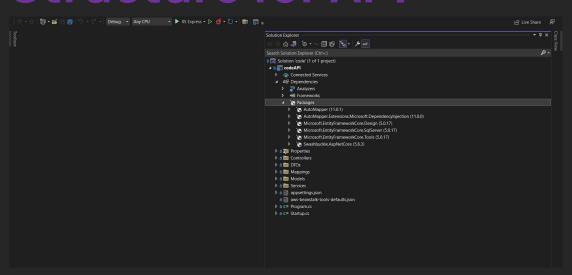
# 5. Implementation and Skills Learned

- AWS RDS (MS SQL Server 2019)
- Web API Implementation using Asp.Net Core Web API
- Web API on AWS Elastic Beanstalk
- API management through Google APIGEE
- Consuming API using ASP.NET Web MVC

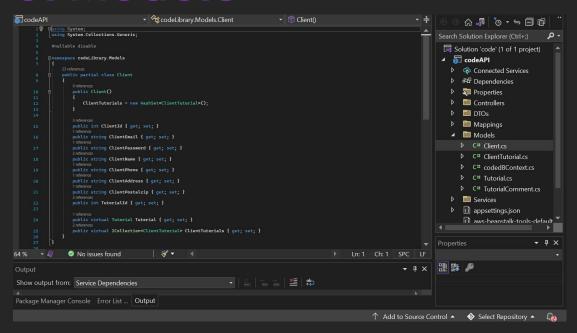
## 6. Dependencies



# 7. Application Structure for API

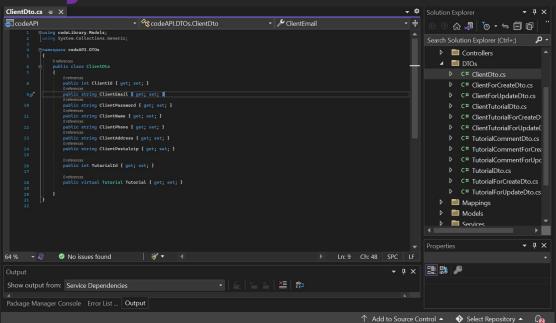


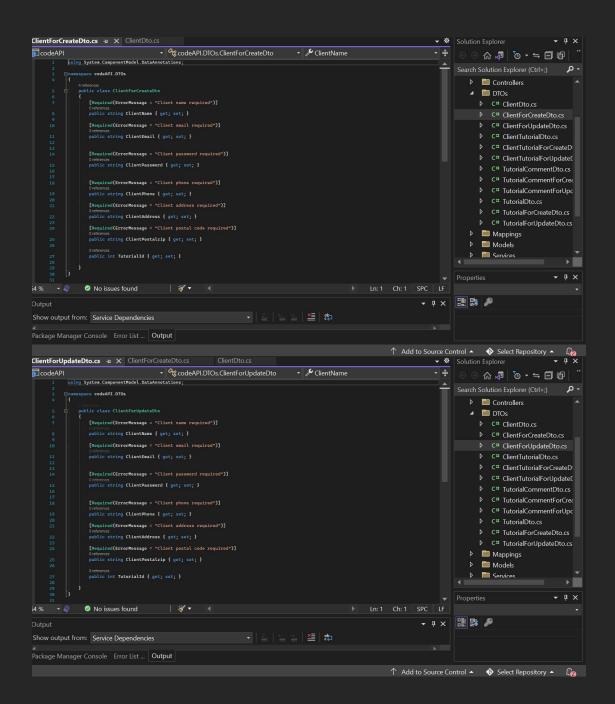
#### 8. Models



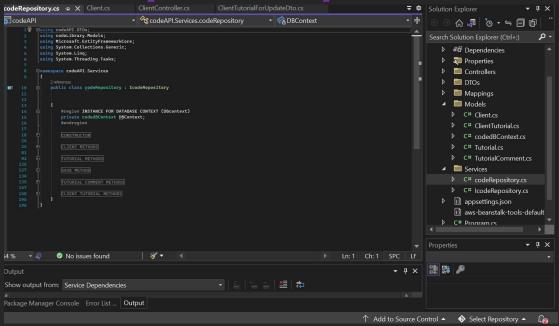
#### 9. Data Transfer

#### Objects

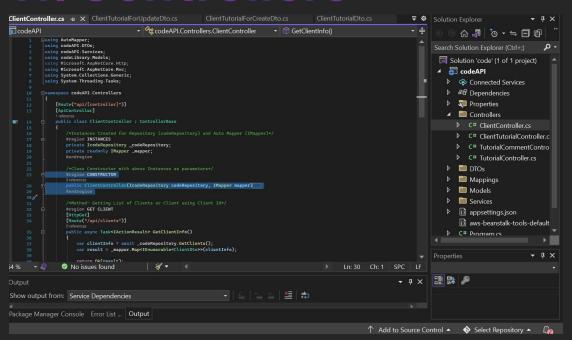




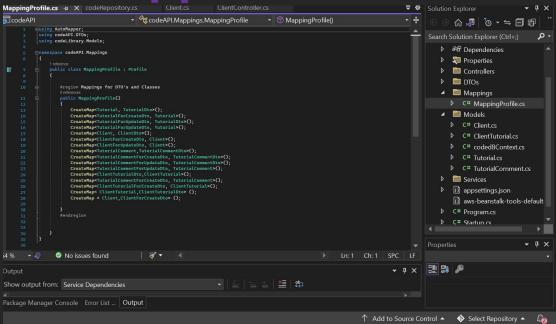
### 10. Repository



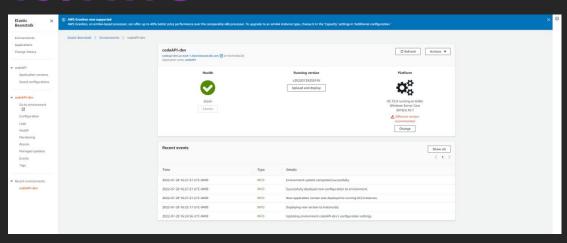
#### 11. Controllers



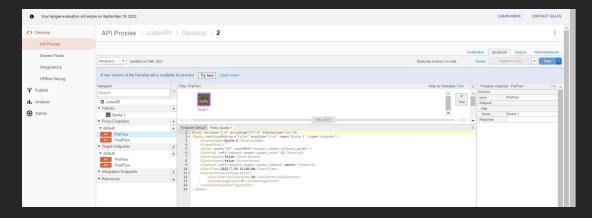
#### 12. Mapper



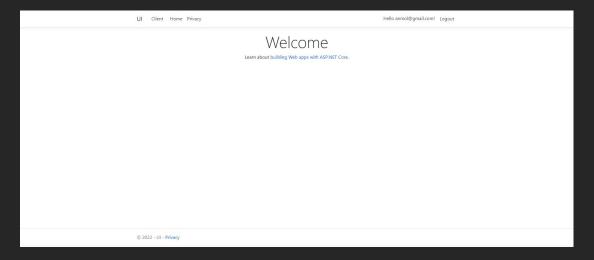
## 13. AWS

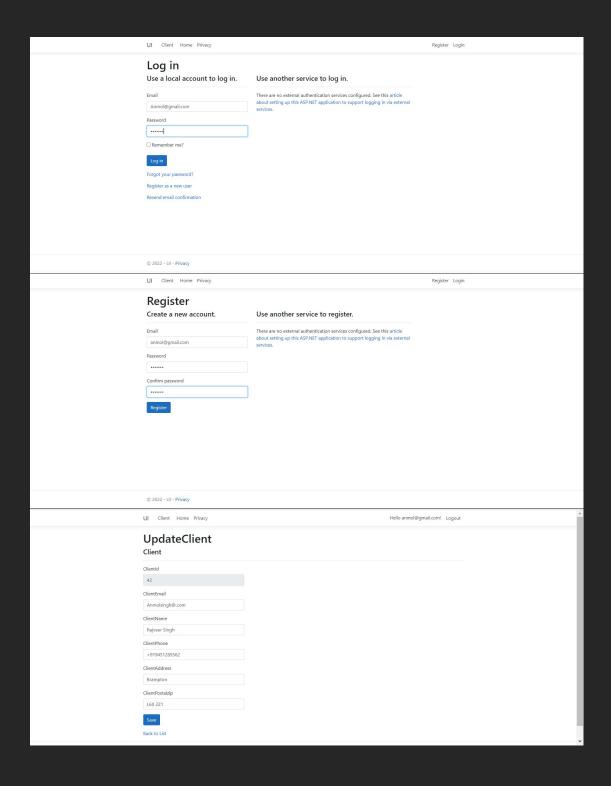


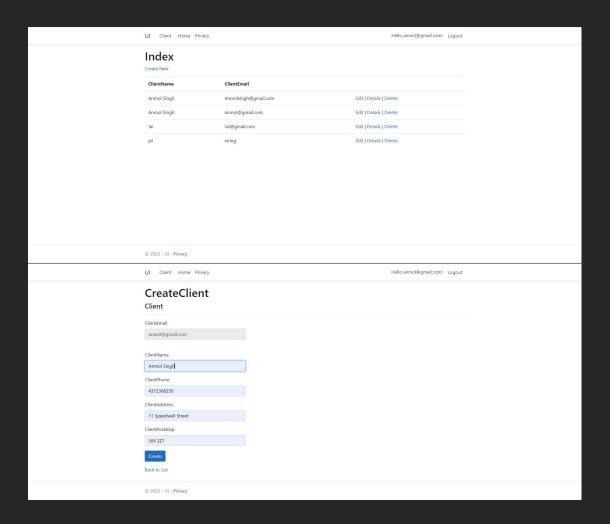
#### 14. APIGEE



# 15. Consuming API Through ASP.NET Web MVC HTTPClient







UI Client Home Privacy Hello anmol@gmail.com! Logout Index Create New ClientEmail

Anmolsingh@gmail.com ClientName Anmol Singh Edit | Details | Delete string Edit | Details | Delete Jai@gmail.com Edit | Details | Delete Hello anmol@gmail.com! Logout UI Client Home Privacy  ${\sf GetClientById}$ Client 
 Clientid
 47

 ClientEmail
 anmol@gmail.com

 ClientHame
 Anmol Singh

 ClientPose
 4372268350

 ClientAddress
 11 Speedwell Street

 ClientPostalzip
 L6X 2Z1
 Edit| Back to List | Tutorials © 2022 - UI - Privacy

#### 16. Conclusion

Code.Net can help a group of people who want to build a tutorial website or a streaming website like Crunchyroll, or Edx. They can consume this API in their front-end application and won't need to worry about working in the database or back-end. Code.NET is lightweight lightning fast, and easy to manage.

API.