

[Template for Fortnightly eFolio submission]

Studio {Specify Studio # 1 & 2}
Name and Student Id: {Peiqian Lin and 33319227}

Self-Evaluation {To be highlighted by Student only}:

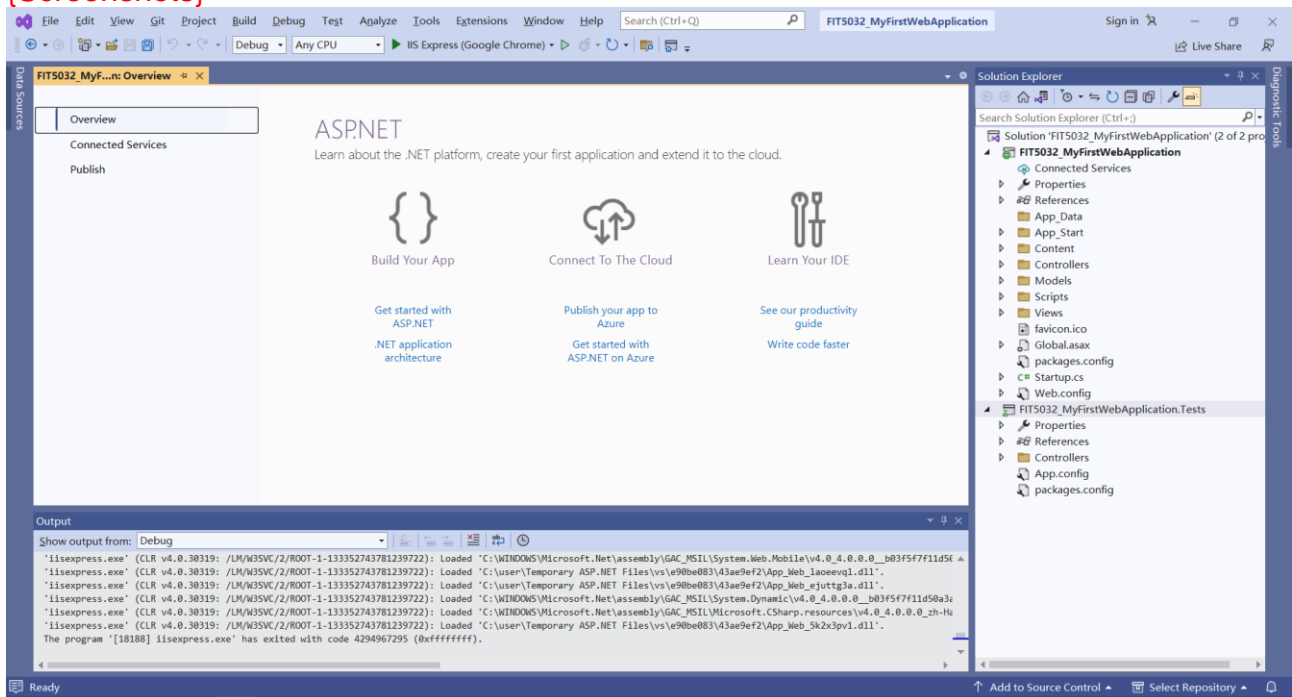
| | | | | | |
|-----------|------------------|------|--------|-------------|------------------|
| Need Help | Work in Progress | Pass | Credit | Distinction | High Distinction |
|-----------|------------------|------|--------|-------------|------------------|

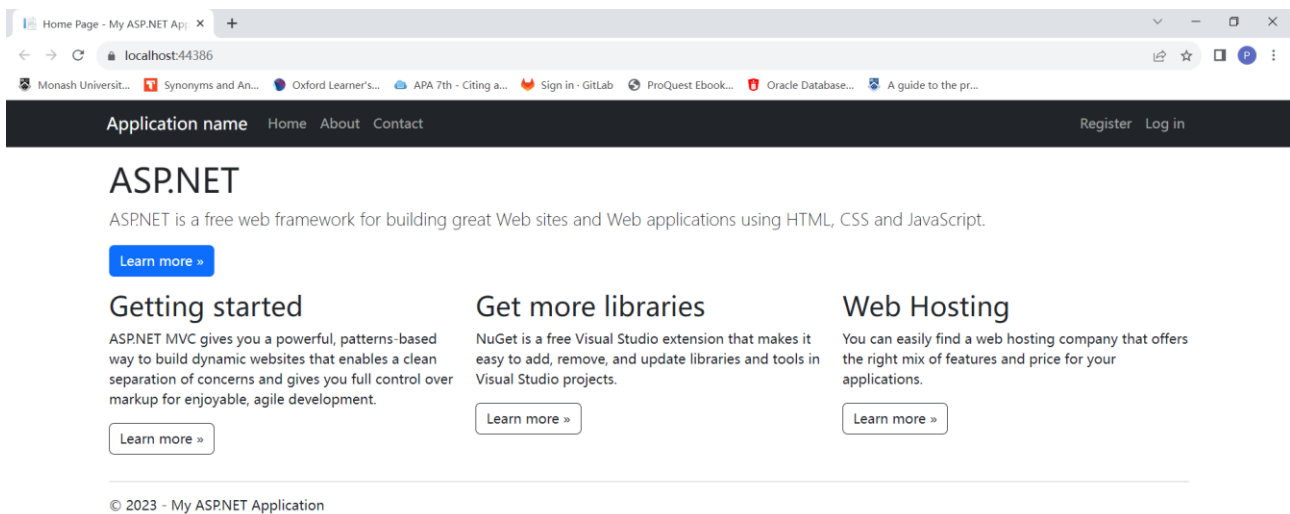
Task {1.1}:

{Answers}

Successfully run the visual studio community edition IDE and its IIS localhost.

{Screenshots}





Home Page - My ASP.NET App | X

localhost:44386

Monash Universit... Synonyms and An... Oxford Learner's... APA 7th - Citing a... Sign in - GitLab ProQuest Ebook... Oracle Database... A guide to the pr...

Application name Home About Contact Register Log in

ASP.NET

ASP.NET is a free web framework for building great Web sites and Web applications using HTML, CSS and JavaScript.

[Learn more >](#)

Getting started

ASP.NET MVC gives you a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and gives you full control over markup for enjoyable, agile development.

[Learn more >](#)

Get more libraries

NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Studio projects.

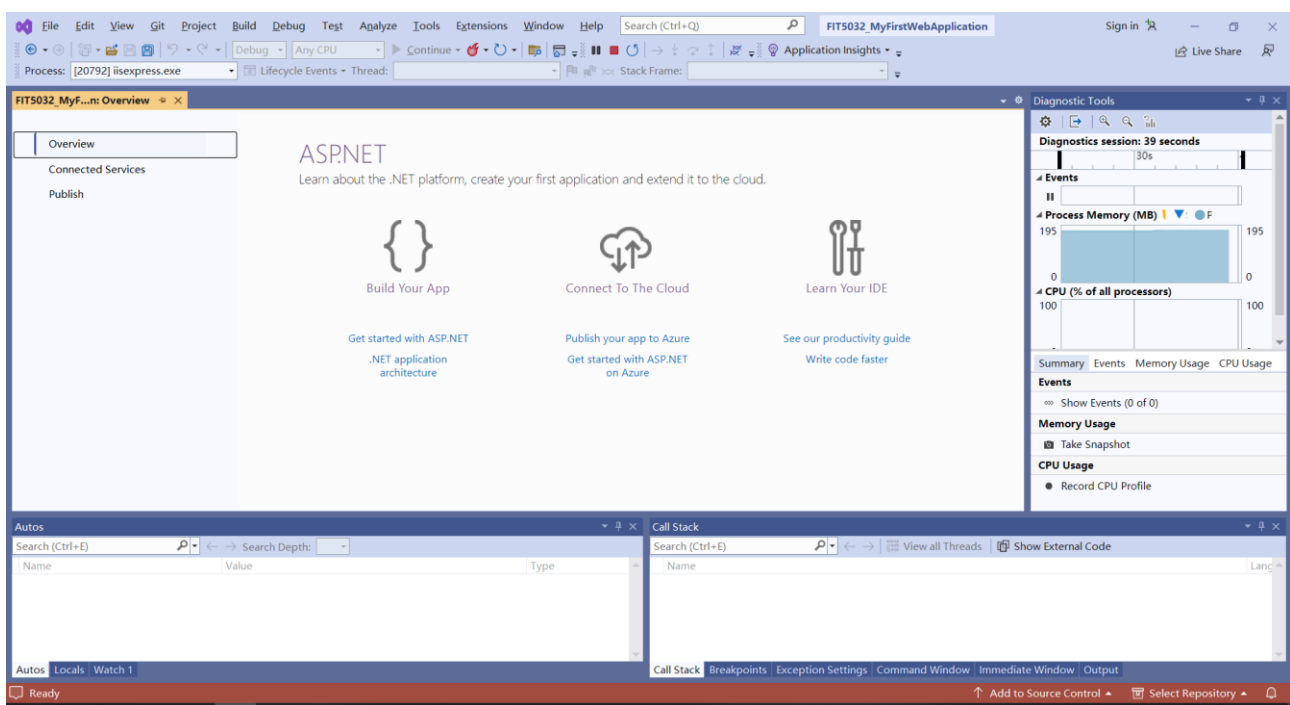
[Learn more >](#)

Web Hosting

You can easily find a web hosting company that offers the right mix of features and price for your applications.

[Learn more >](#)

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File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q) FIT5032 MyFirstWebApplication Sign in Live Share

Process: [20792] iisexpress.exe Lifecycle Events Thread: Stack Frames

FIT5032 MyF...: Overview


Overview

Connected Services

Publish

ASP.NET


Learn about the .NET platform, create your first application and extend it to the cloud.



Build Your App

Get started with ASP.NET


.NET application architecture



Connect To The Cloud

Publish your app to Azure

Get started with ASP.NET on Azure



Learn Your IDE

See our productivity guide

Write code faster

Diagnostic Tools

Diagnostics session: 39 seconds

Events

Process Memory (MB)

CPU (% of all processors)

Summary Events Memory Usage CPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Record CPU Profile

Autos

Search (Ctrl+E)

Search Depth:

Name Value Type

Call Stack

Search (Ctrl+E)

View all Threads Show External Code

Name Lanc

Autos Locals Watch 1

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output

Ready

Add to Source Control Select Repository

{Link to code repository}

{References}

{URLs}

Task {1.2}:

{Answers}

IDE

1. Visual studio
2. Pycharm
3. PhpStorm
4. Eclipse
5. IntelliJ IDEA
6. Atom

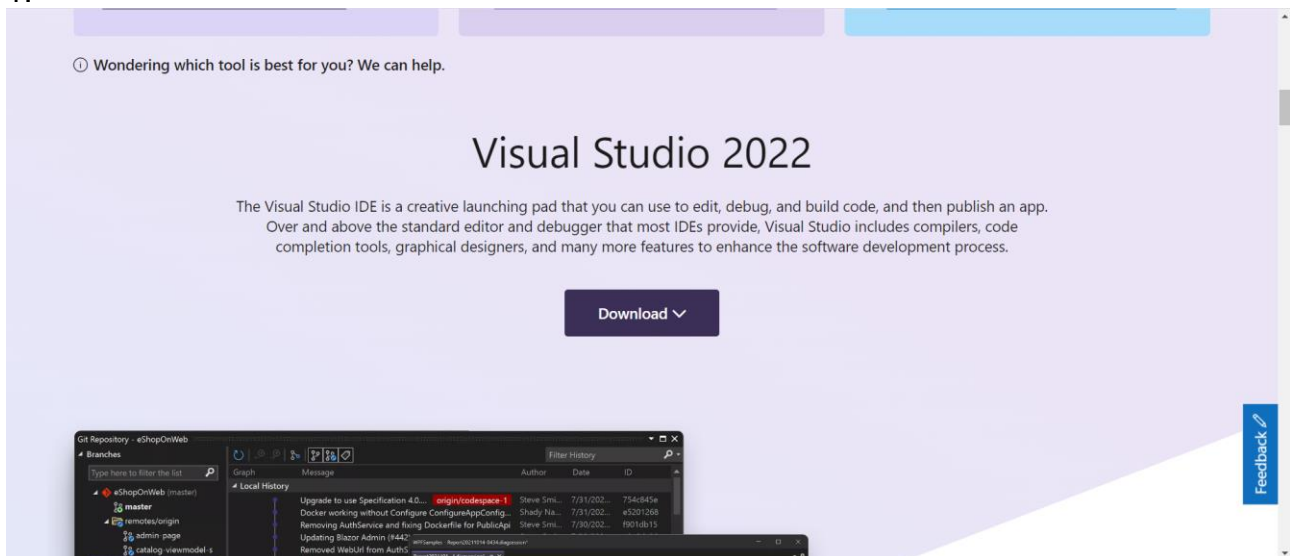
Features

1. Support many programming languages
2. Easy to debug
3. Easy to generate a project for unit test
4. Version control
5. Visual Studio enables real-time collaborative development

{Screenshots}

Five IDE

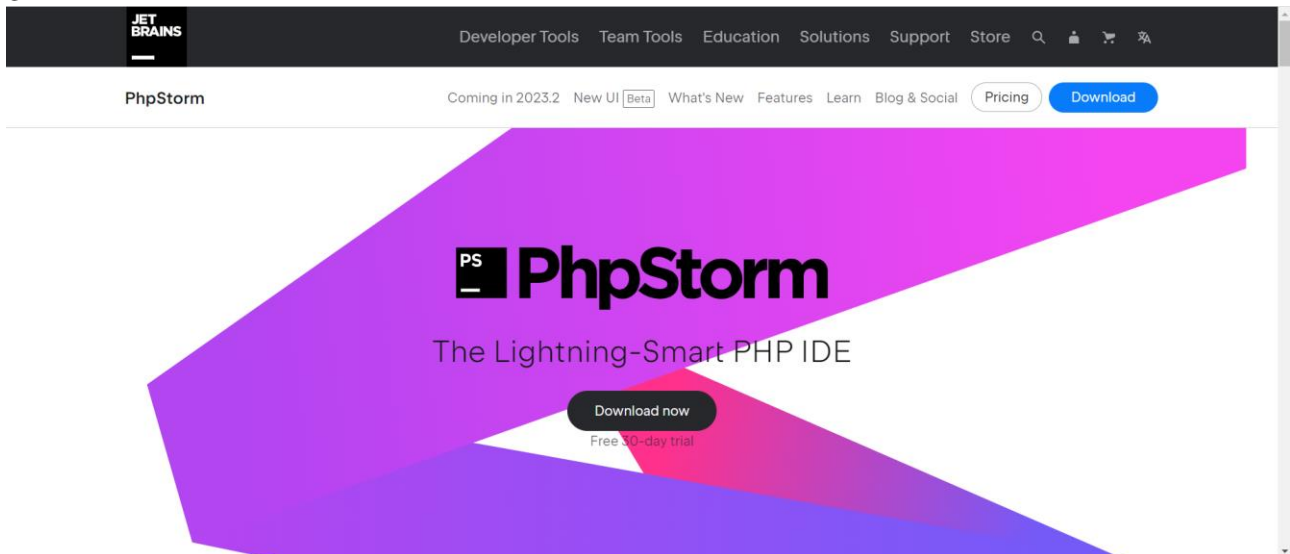
1.




2.




3.



4.


Advertise Here

The Eclipse Installer 2023-06 R now includes a JRE for macOS, Windows and Linux.




Get Eclipse IDE 2023-06

Install your favorite desktop IDE packages.

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[Download Packages](#) | [Need Help?](#)

OpenJDK Runtimes



TEMURIN

The Eclipse Temurin™ project provides high-quality, TCK certified OpenJDK runtimes and associated technology for use across the Java™ ecosystem.


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[Learn More](#)

5.

IntelliJ IDEA

New UI | What's New | Features | Resources | [Pricing](#) | [Download](#)



IntelliJ IDEA – the Leading Java and Kotlin IDE

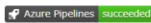
The IDE that makes development a more productive and enjoyable experience

[Download](#)

6.


☰ README.md

Atom



Atom and all repositories under Atom will be archived on December 15, 2022. Learn more in our [official announcement](#)

Atom is a hackable text editor for the 21st century, built on [Electron](#), and based on everything we love about our favorite editors. We designed it to be deeply customizable, but still approachable using the default configuration.

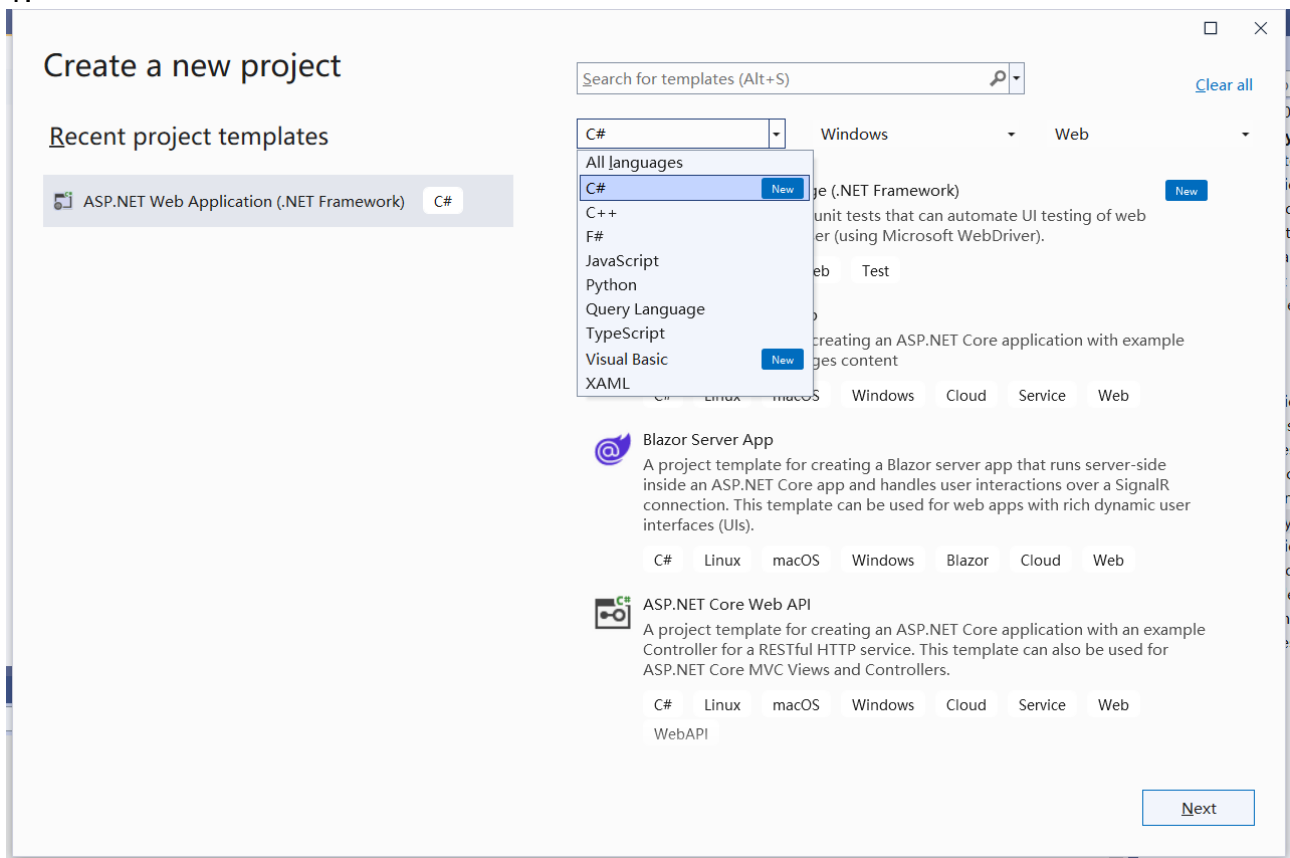


Project

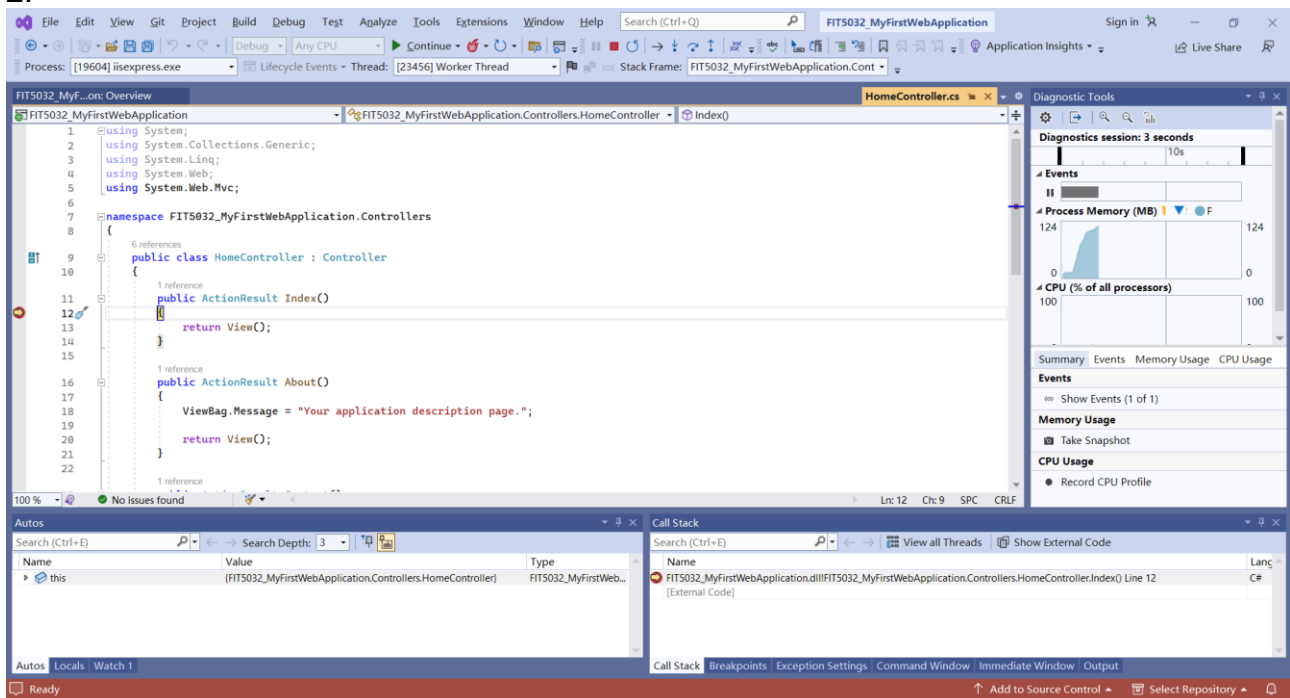
commit-detail-controller.js

Features

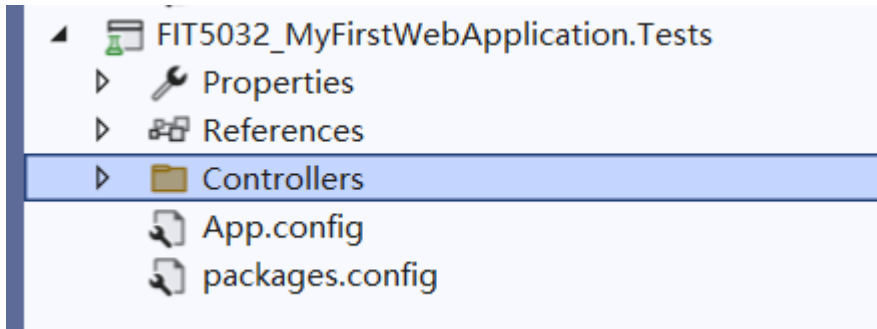
1.



2.



3.




4.

Version control

With the integrated Git features in Visual Studio, you can clone, create, or open your own repositories. The Git tool window has everything you need for committing and pushing changes to code, managing branches, and resolving merge conflicts. If you have a GitHub account, you can manage those repos directly within Visual Studio.

Learn more about [version control](#) in Visual Studio:

- [Version control with Git](#)
- [Visual Studio and GitHub](#) 

5.

Collaborate with others

Visual Studio Live Share enables real-time collaborative development. With Live Share you can share your project with your peers, no matter the language or platform. Get to the bottom of an issue fast by allowing your team to connect, navigate, set break points, and type in your editor session.

Learn more about how to collaborate with Live Share:

- [Collaborate with Live Share](#)
- [Common use cases](#)

{Link to code repository}

{References}

{URLs}

Five IDE

1. <https://visualstudio.microsoft.com/#vs-section>
2. <https://www.jetbrains.com/pycharm/>
3. <https://www.jetbrains.com/phpstorm/>
4. <https://www.eclipse.org/downloads/>
5. <https://www.jetbrains.com/idea/>

6. <https://github.com/atom/atom>

Features

<https://learn.microsoft.com/en-us/visualstudio/get-started/visual-studio-ide?view=vs-2022>

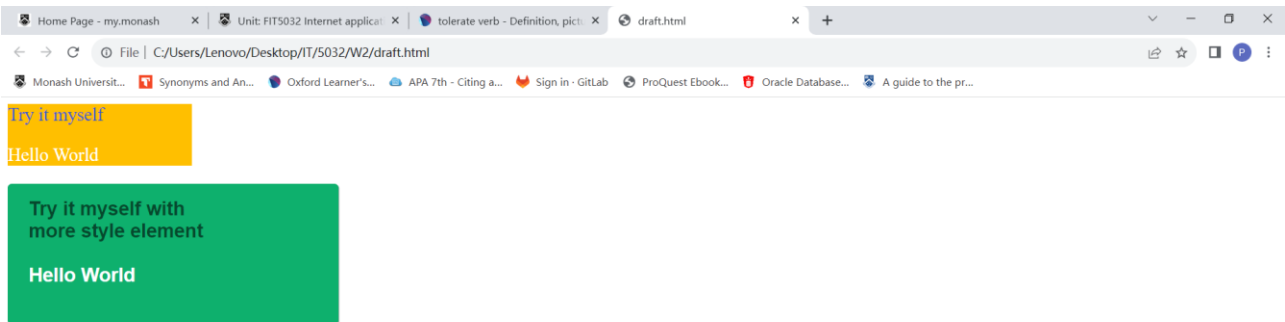
Task {2.1}:

{Answers}

1. Screenshot of a website using some CSS examples and code
2. Screenshot of a website using some Bootstrap responsiveness examples and code

{Screenshots}

1.



```
<style>
  .preview {
    background-color: rgb(255, 191, 0);
    width: 220px;
  }

  .previewsecondLevel {
    color: rgba(0, 64, 255, 0.805);
    font-size: 22px;
    font-weight: normal;
  }

  p {
    color: white;
    font-size: 22px;
    font-weight: normal;
  }
</style>

<div class="preview" >
  <div class="previewsecondLevel">Try it myself</div>
  <p>Hello World</p>
</div>
```

```
<style>
  .preview2 {
    background-color: rgb(14, 176, 109);
    border-radius: 5px;
    width: 370px;
    padding: 17px 0px 45px 25px;
    box-shadow: 1px 1px rgb(186, 183, 183);
  }

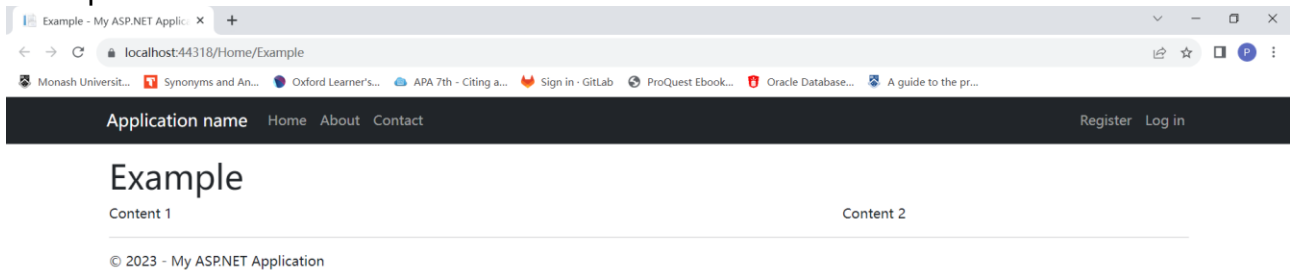
  .preview2secondLevel {
    color: rgba(0, 0, 0, 0.585);
    font-size: 23px;
    font-weight: bold;
    font-family: Arial, Helvetica, sans-serif;
  }

  p1 {
    color: white;
    font-size: 23px;
    font-weight: bold;
    font-family: Arial, Helvetica, sans-serif;
  }
</style>

<div class="preview2">
  <div class="preview2secondLevel">
    Try it myself with <br>
    more style element
  </div>
  <p1>
    <br>
    Hello World
  </p1>
</div>
```

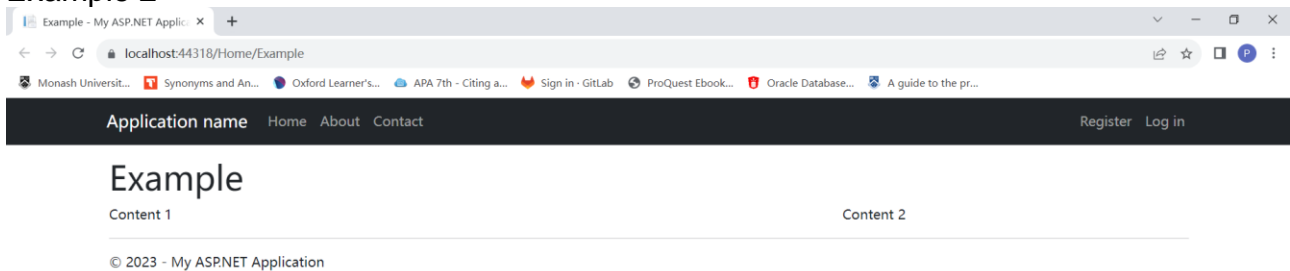
2.

Example 1



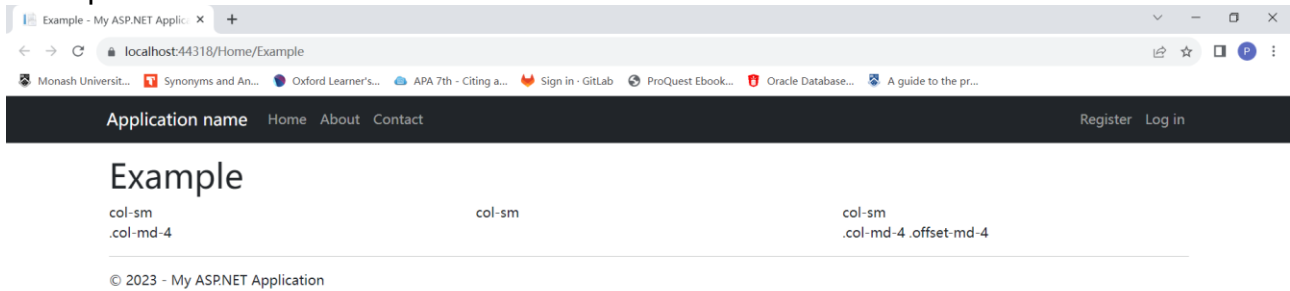
```
<div class="row">
  <div class="col-8">Content 1</div>
  <div class="col-4">Content 2</div>
</div>
```

Example 2



```
<div class="row">
  <div class="col-12 col-sm-6 col-md-8">Content 1</div>
  <div class="col-6 col-md-4">Content 2</div>
</div>
```

Example 3



```
<div class="row">
  <div class="col-sm">col-sm</div>
  <div class="col-sm">col-sm</div>
  <div class="col-sm">col-sm</div>
</div>
<div class="row">
  <div class="col-md-4">.col-md-4</div>
  <div class="col-md-4 offset-md-4">.col-md-4 .offset-md-4</div>
</div>
```

{Link to code repository}

{References}

{URLs}

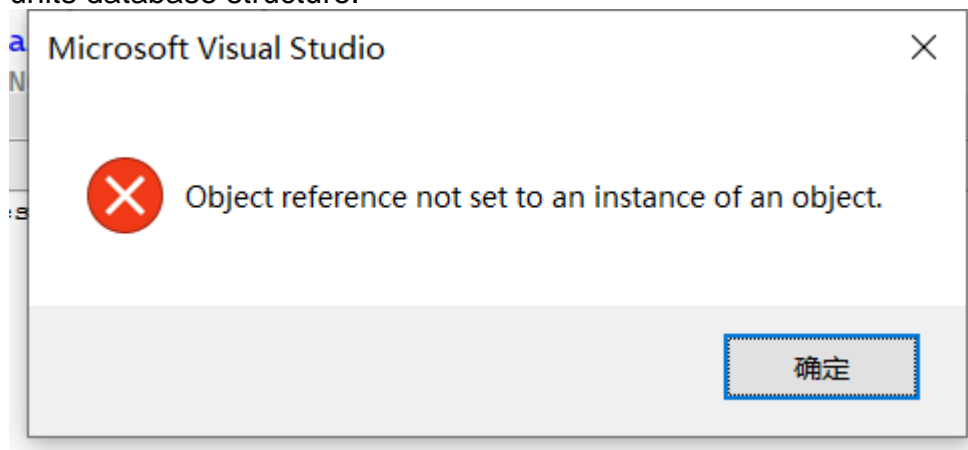
Task {2.2}:

{Answers}

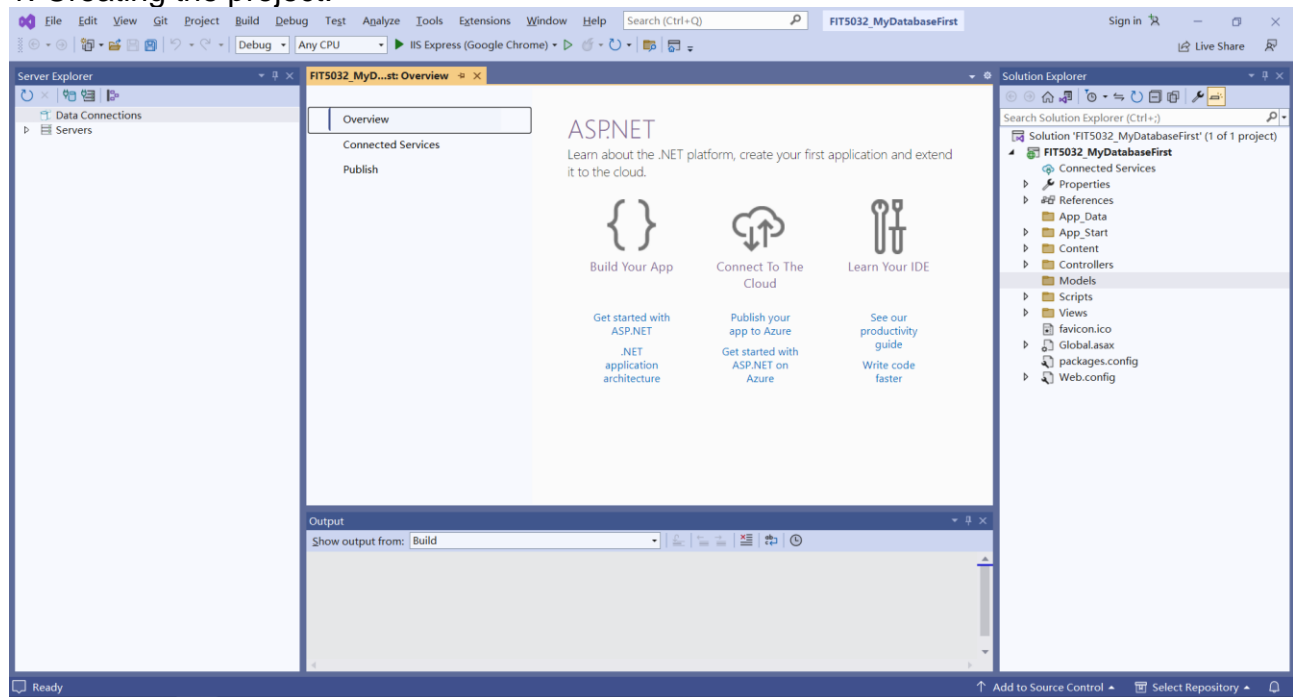
Screenshots of a running ASP.NET MVC Web Application along with database schema and code

{Screenshots}

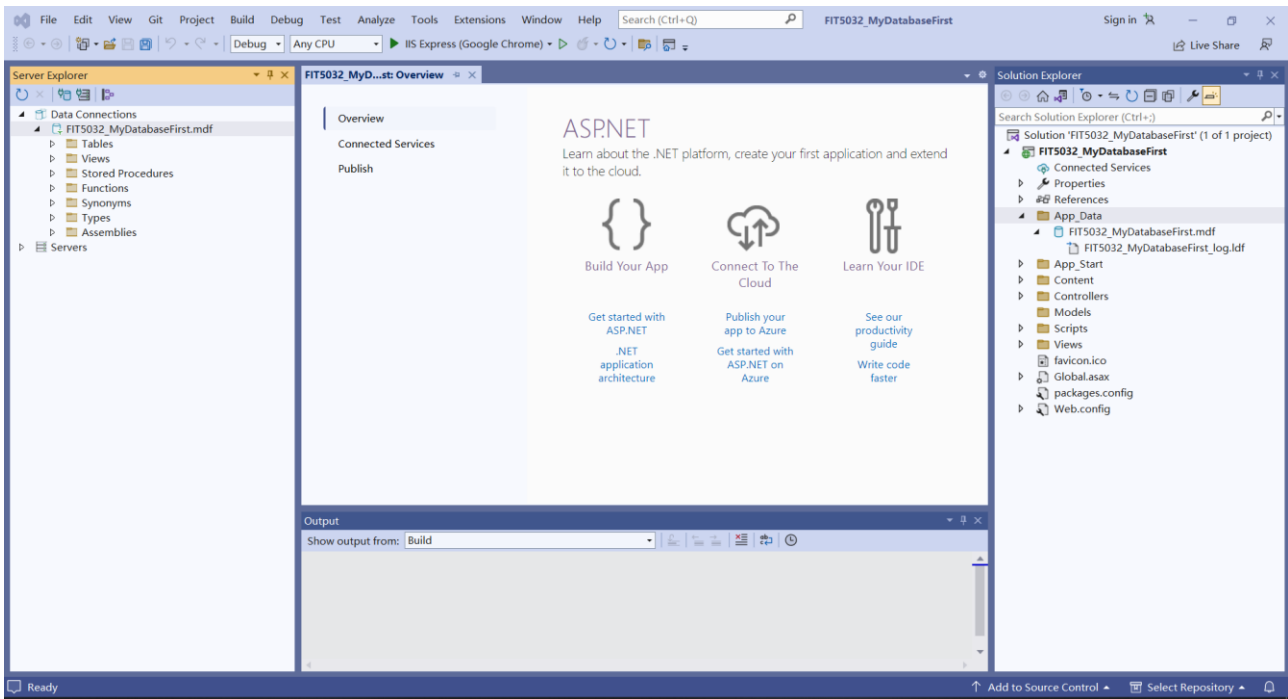
Before creating the project, I open the VS by using **Administrator mode** due to its broader authority. If I open the visual studio without using it, then I will come across something object reference problems when creating a model which refers to the students, units database structure.



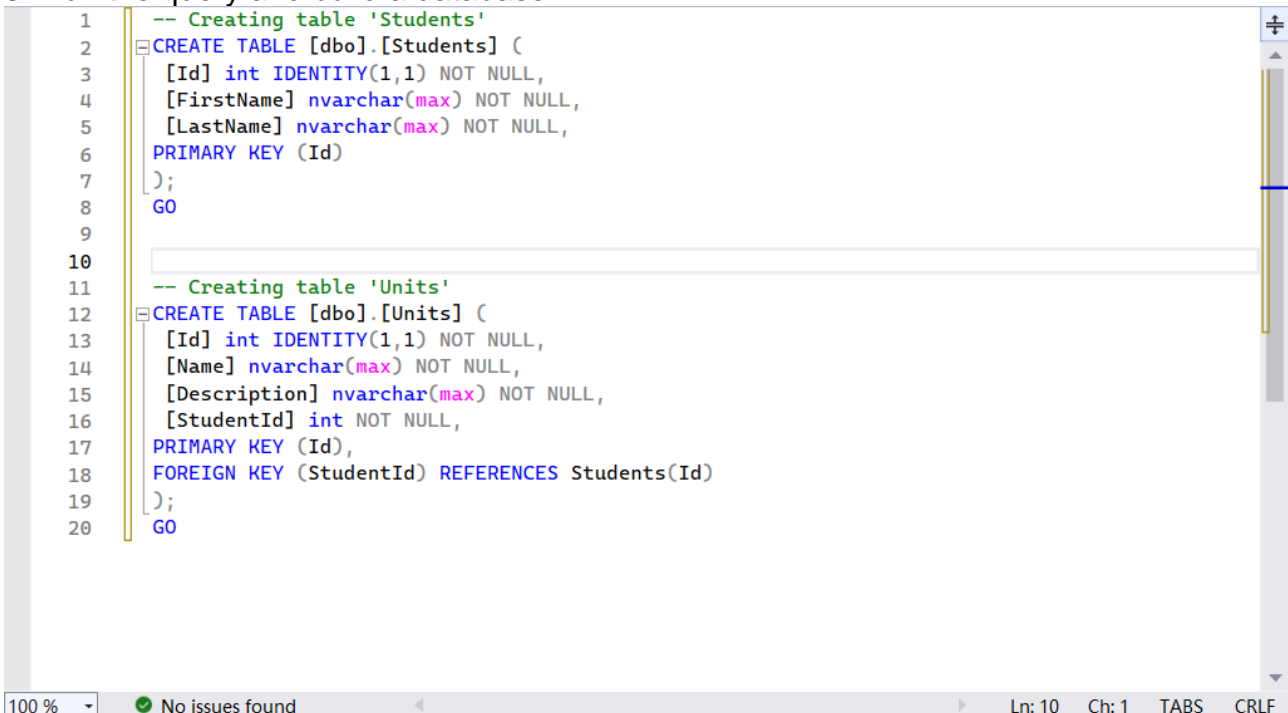
1. Creating the project.



2. Creating a database structure in App_Data folder



3. Run the query and build a database



Note:

Varchar vs Nvarchar

Varchar data type can store non-Unicode string data.

Varchar stores data at 1 byte per character.

Varchar supports up to 8000 characters.

Nvarchar data type can store Unicode string data.

Nvarchar stores data at 2 bytes per character.

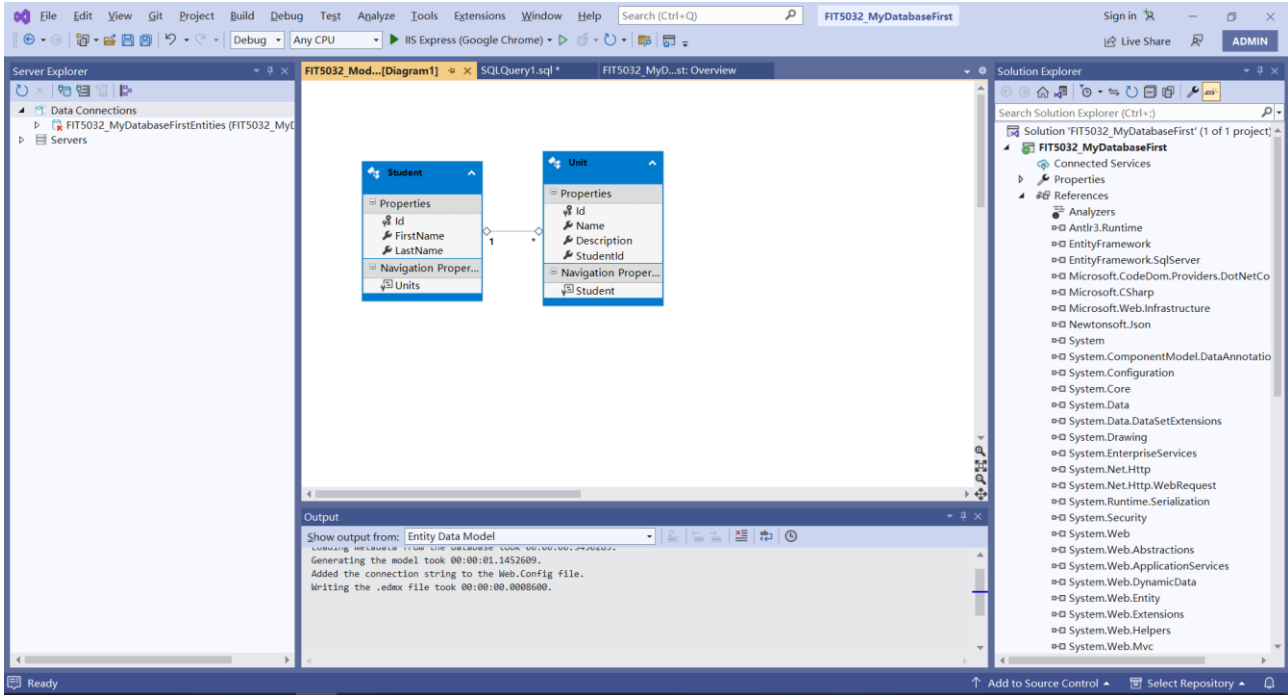
Nvarchar supports up to 4000 characters.

Primary key vs identity

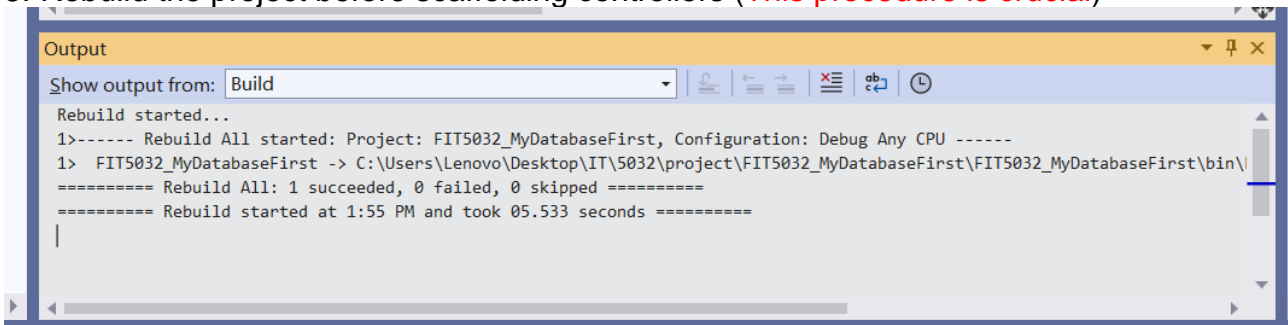
An identity is simply an auto-increasing column.

A primary key is the unique column or columns that define the row.

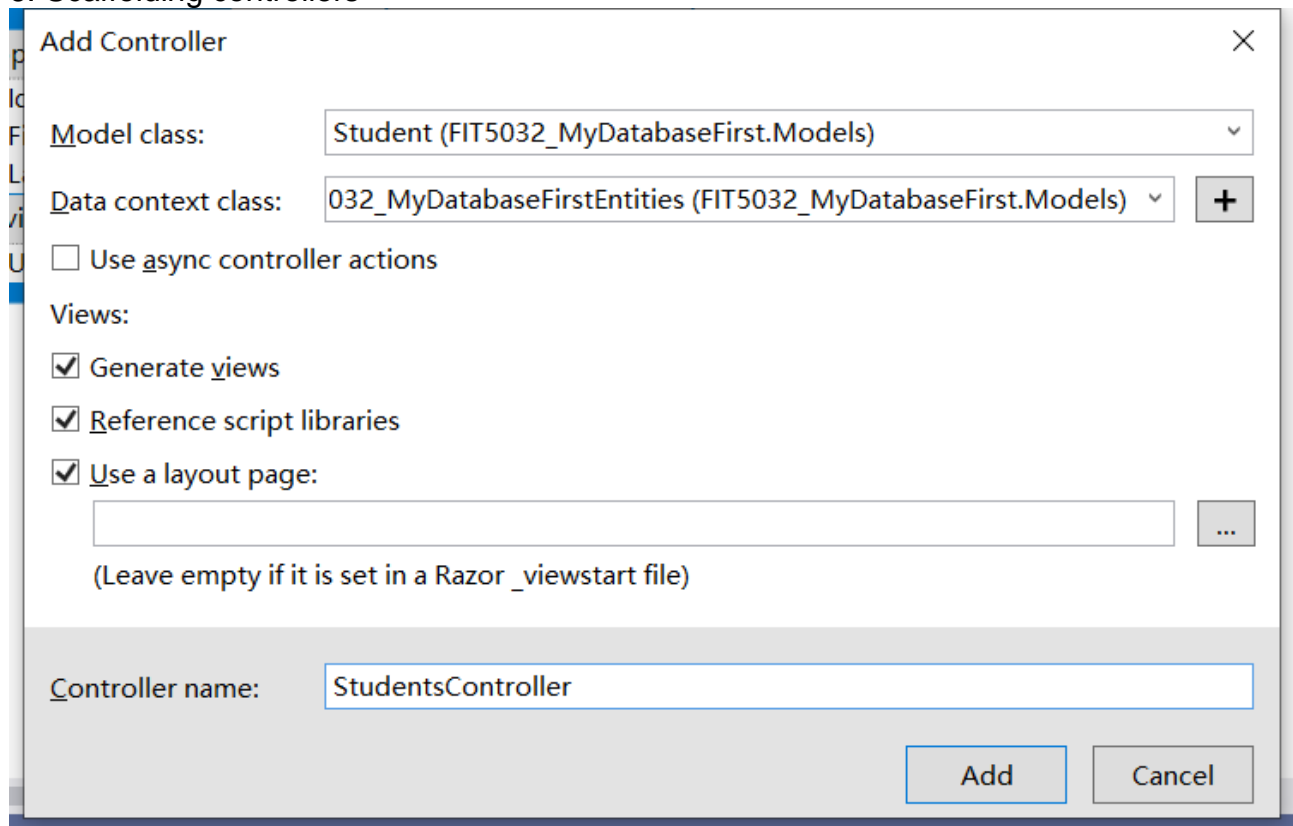
4. Generate the models from the database which has been created



5. Rebuild the project before scaffolding controllers (This procedure is crucial)



6. Scaffolding controllers



Add Controller

Model class: Student (FIT5032_MyDatabaseFirst.Models)

Data context class: 032_MyDatabaseFirstEntities (FIT5032_MyDatabaseFirst.Models) +

☐ Use async controller actions

Views:

☒ Generate views

☒ Reference script libraries

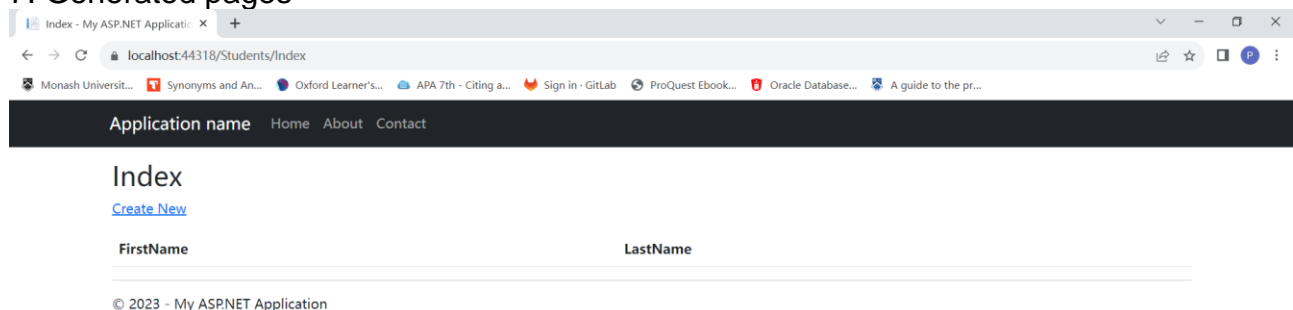
☒ Use a layout page:

(Leave empty if it is set in a Razor _viewstart file)

Controller name: StudentsController

Add **Cancel**

7. Generated pages



Index - My ASP.NET Application

localhost:44318/Students/Index

Application name Home About Contact

Index

[Create New](#)

| FirstName | LastName |
|-----------|----------|
| | |
| | |

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Index

[Create New](#)

| FirstName | LastName | |
|-----------|----------|---|
| Peiqian | Lin | Edit Details Delete |

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{Link to code repository}

{References}

{URLs}