

PRACTICE MATERIALS

Business Web Development



Instructions:

- Practical exercises are divided into many Modules
- Each Module is designed for a duration of 3 or 5 practice hours in class with the guidance of the Supervisor.
- Depending on the number of lessons allotted, each week can do many Modules.
- Students must do all the exercises in the Modules in the respective week. Students who have not completed their work assignments are responsible for continuing to do them at home.
- Exercises marked with an asterisk (*) are advanced exercises for good students.

Supervisor

Tran Duy Thanh, PhD.

thanhtd@uel.edu.vn

0987773061

INDEX

Module 1: Business Web Development Overview	5
Exercise 1: History of the Internet	5
Exercise 2: Server vs Client.....	6
Exercise 3: HTTP vs HTTPS	6
Exercise 4: Static Web and Dynamic Web	6
Exercise 5: Hosting vs Domain	6
Exercise 6: Server- Webserver-website	6
Exercise 7: Structure of URL.....	6
Exercise 8: The process of creating a Website.....	6
Module 2: Hypertext Markup Language (HTML)	7
Exercise 9: Using Visual Studio to create a Website	7
Exercise 10: Configure IIS Web Server	18
Exercise 11: Configure Hosting + Domain Free.....	28
Exercise 12: Configure NAT port for Internet Modem at home (*).....	29
Exercise 13: HTML file structure	29
Exercise 14: Resume	30
Exercise 15: Beethoven	30
Exercise 16: Euler.....	33
Exercise 17: Chester.....	33
Exercise 18: Resume (more).....	34
Exercise 19: Website Expo	35
Exercise 20: Website Jaction	36
Exercise 21: Website SFSF	37
Exercise 22: Web Menu.....	38
Exercise 23: Table – Gargoyle Collection	38
Exercise 24: Table – Gargoyle Products	39
Exercise 25: Table Gargoyle (*).....	40
Exercise 26: Table Dunston	41
Exercise 27: Frame	41
Exercise 28: Frameset	42
Exercise 29: Frameset – Image maps	43
Exercise 30: Frameset – Image maps	44
Exercise 31: Frameset (*).....	44
Exercise 32:Marquee, Multimedia	45
Module 3: Cascading Style Sheets (CSS)	46
Exercise 33: Internal Style	46
Exercise 34: Inline Style.....	47
Exercise 35: External Style	48



Exercise 36: Box Menu	49
Exercise 37: Menu for Website	50
Exercise 38: Four Seasons.....	52
Exercise 39: Table with external CSS	53
Exercise 40: Table with external CSS	54
Exercise 41: Vietnam Airline Website – external CSS.....	54
Exercise 42: Maxwell Scientific.....	55
Exercise 43: StuffShop.....	56
Exercise 44: M.Lee's.....	57
Exercise 45: ScrapBooks.....	58
Exercise 46: Mount Rainier News	58
Exercise 47: Table with Style-trigger.....	59
Module 4: Form and Controls.....	60
Exercise 48: Register.....	60
Exercise 49: Online Classifield	61
Exercise 50: Travel Expense Report.....	62
Exercise 51: Registration.....	63
Exercise 52: Contact - GET	64
Exercise 53: Product-GET	64
Module 5: Javascript	65
Exercise 54: Math function	65
Exercise 55: The quadratic equation.....	65
Exercise 56: String processing.....	66
Exercise 57: Handle the text change event	66
Exercise 58: Neonatal Feeding Study.....	67
Exercise 59: North Pole Novel Ties	68
Exercise 60: Menu.....	69
Exercise 61: Color Picker.....	69
Module 6: XML - DOM and JSON	70
Exercise 62: Table Mouse Trigger.....	70
Exercise 63: Member Registration.....	70
Exercise 64: Dynamic Table	71
Exercise 65: Dynamic List	73
Exercise 66: XML-Dom Parser	74
Exercise 67: XML – DOM Parser (*)	74
Exercise 68: XML - AJAX	76
Exercise 69: XML – AJAX (*).....	77
Exercise 70: JSONObject vs JSONArray	77
Exercise 71: Display User Information	78



Exercise 72: List of products	78
Exercise 73: List of products	79
Exercise 74: Show Score - JSON-AJAX	79
Exercise 75: Show Subject Book - JSONArray.....	80
Module 7: Open Source Website Development.....	82
Exercise 76: Adobe Commerce	82
Exercise 77: PrestaShop Commerce	83
Exercise 78: WooCommerce	83

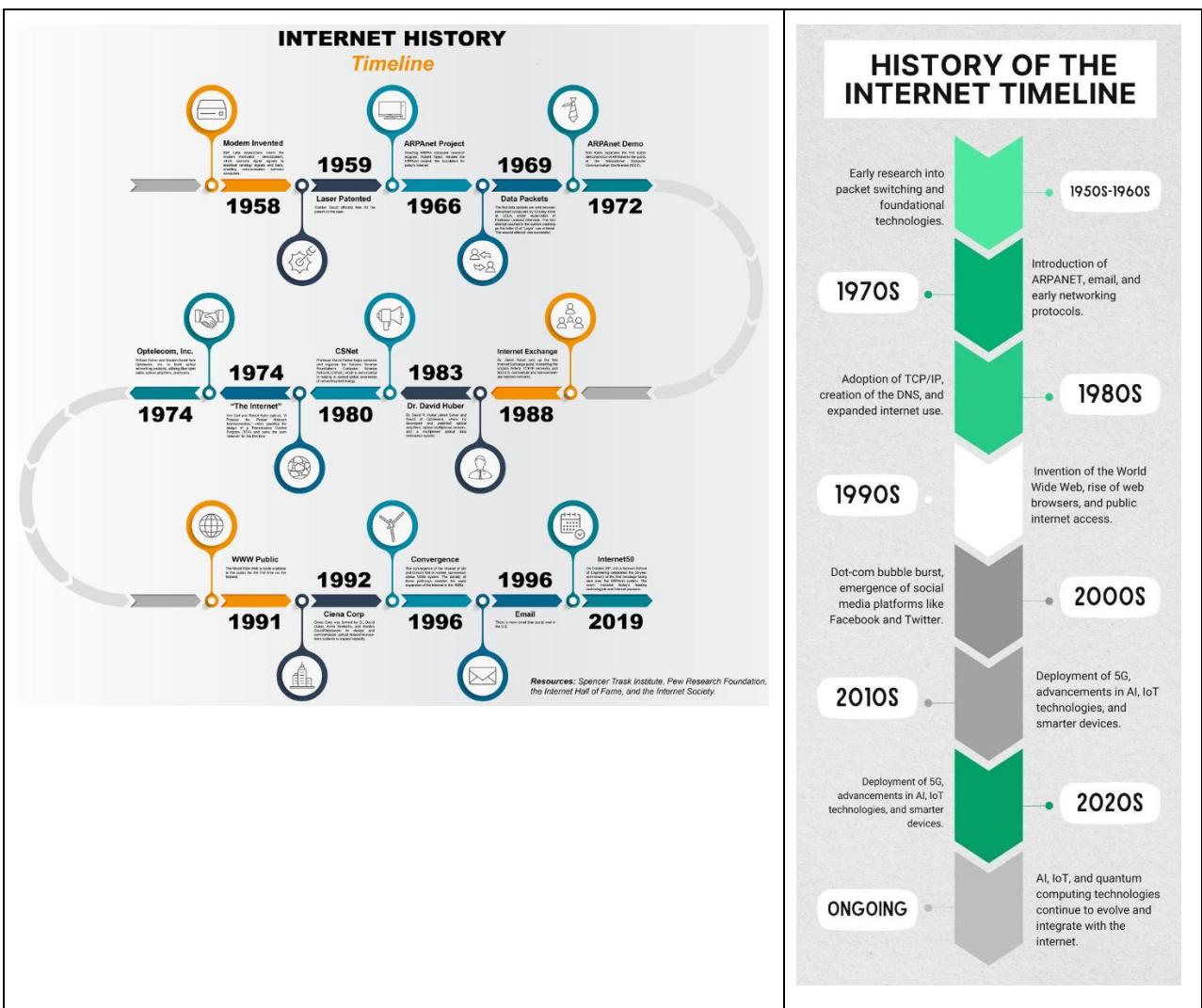
Module 1: Business Web Development Overview

Practical knowledge content:

- + Review basic concepts of Network and Internet
- + Exploiting Internet resources
- + The process of steps to create a Website
- + Distinguish Website, Webpage, Server, WebServer
- + Distinguish Hosting-Domain, how to register
- + Understand the process of deploying and putting the Website into operation

Exercise 1: History of the Internet

Let's present the development history of the Internet



Exercise 2: Server vs Client

Distinguish between Server and Client. Are desktops and laptops used every day called Servers or not? Why?

Exercise 3: HTTP vs HTTPS

Present and compare HTTP and HTTPS protocols.

Exercise 4: Static Web and Dynamic Web

Distinguish between Static Web and Dynamic Web.

Exercise 5: Hosting vs Domain

Let's distinguish Hosting and Domain. What types of domains are there? Based on where to choose to buy the optimal Hosting for the Website system?. If the Website specializes in e-commerce, what popular types should you buy: .org or .edu or .com or .net or .info or .com.vn or .vn ... (or put more self-suggestion)

Exercise 6: Server- Webserver-website

Distinguish Server, WebServer, Website, Webpage, Web Browser. The People said that a Server should install many WebServers to save the system right or wrong? Why?

Exercise 7: Structure of URL

Let's show how to find the IP address of a domain.

Given URL with the following structure:

<https://tranduythanh.com/category/angularjs/?id=1>

Please indicate the components: Protocol, domain, parameter in the above link

Exercise 8: The process of creating a Website

Search information from the Internet, then present at least two different ideas about: The step-by-step process for creating a Website.

Module 2: Hypertext Markup Language (HTML)

Practical knowledge content:

- + Use Visual Studio tools to create files, Web projects
- + Configure IIS Webserver, configure Hosting + Domain Free
- + Understand the structure of an HTML document
- + Practice Basic tags in HTML
- + Practice HTML List Tags
- + Practice Page Link Cards
- + How to create a table in HTML
- + How to use Frame, Iframe, Frameset
- + How to use Marquee
- + How to use Multimedia

Exercise 9: Using Visual Studio to create a Website

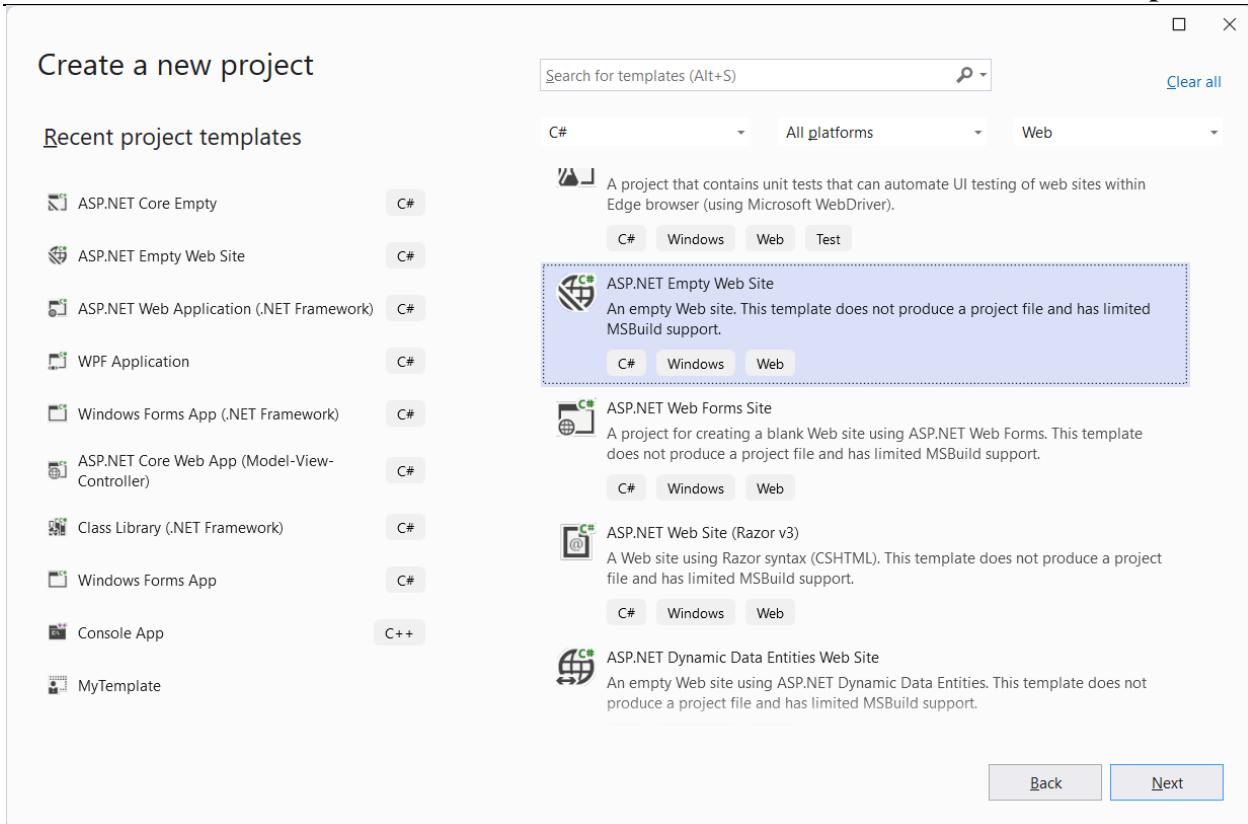
Requirement:

Using Visual Studio Tools to create a Web Project, how to create and run an HTML File in Visual Studio.

Instructions:

- + **Step 1:** Start Microsoft Visual Studio
- + **Step 2:** Select ASP.NET Empty Website template

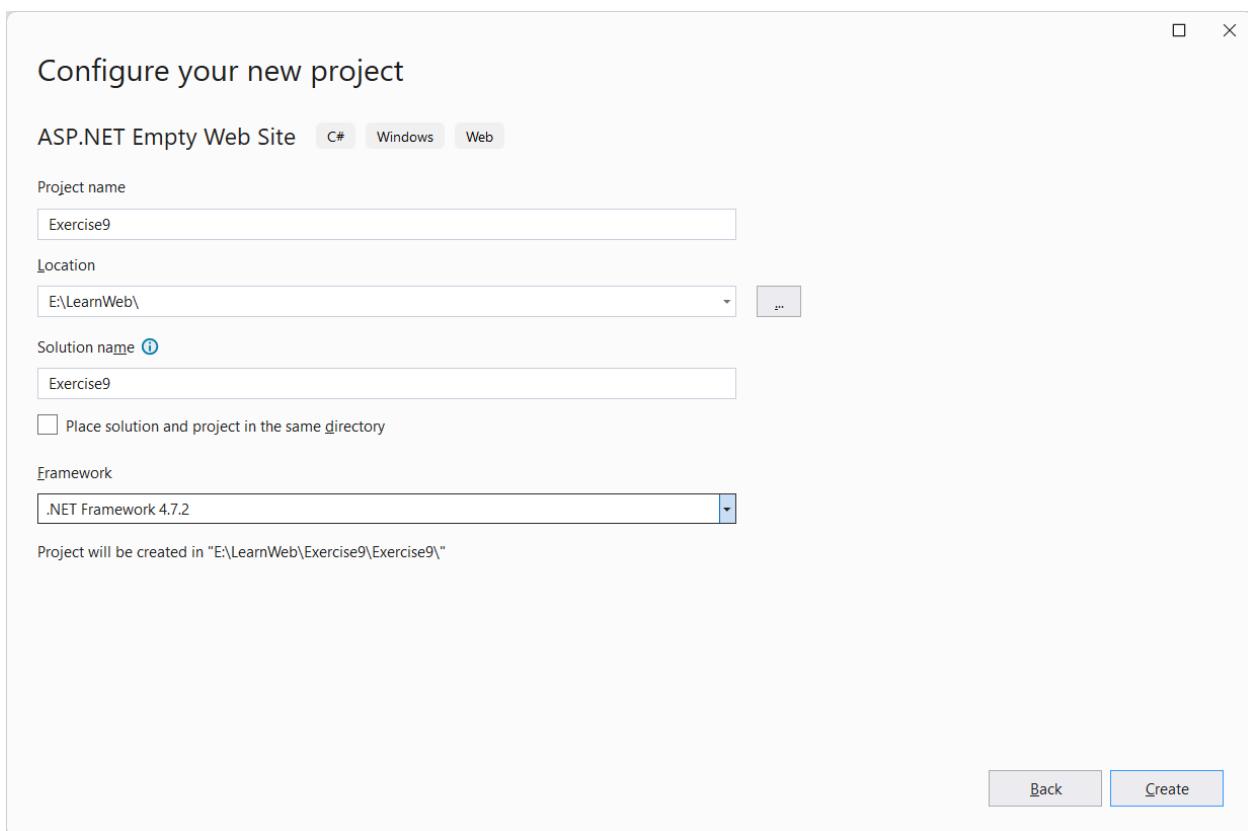
Then click Next button.

**Step 3:** Project name, enter “Exercise9”

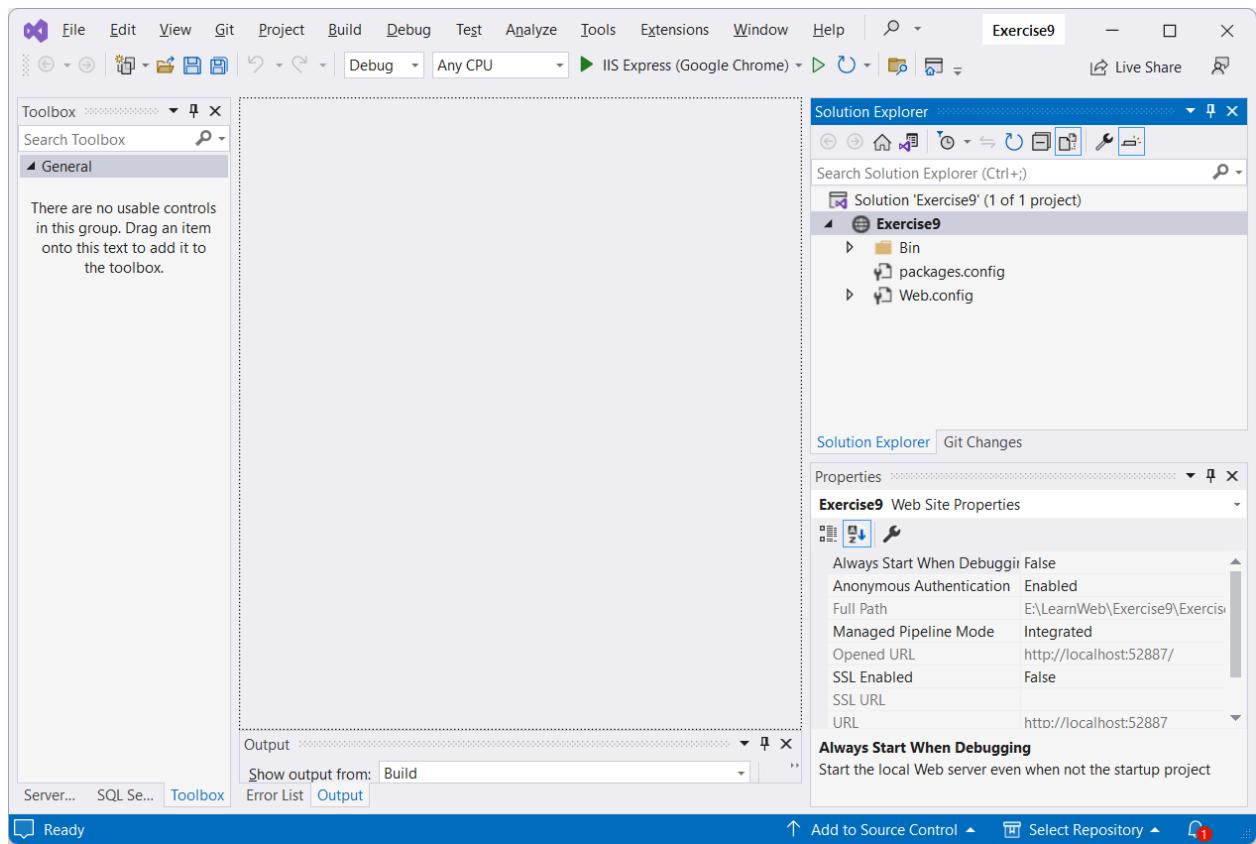
Location: place to save the project

Framework: select lasted framework

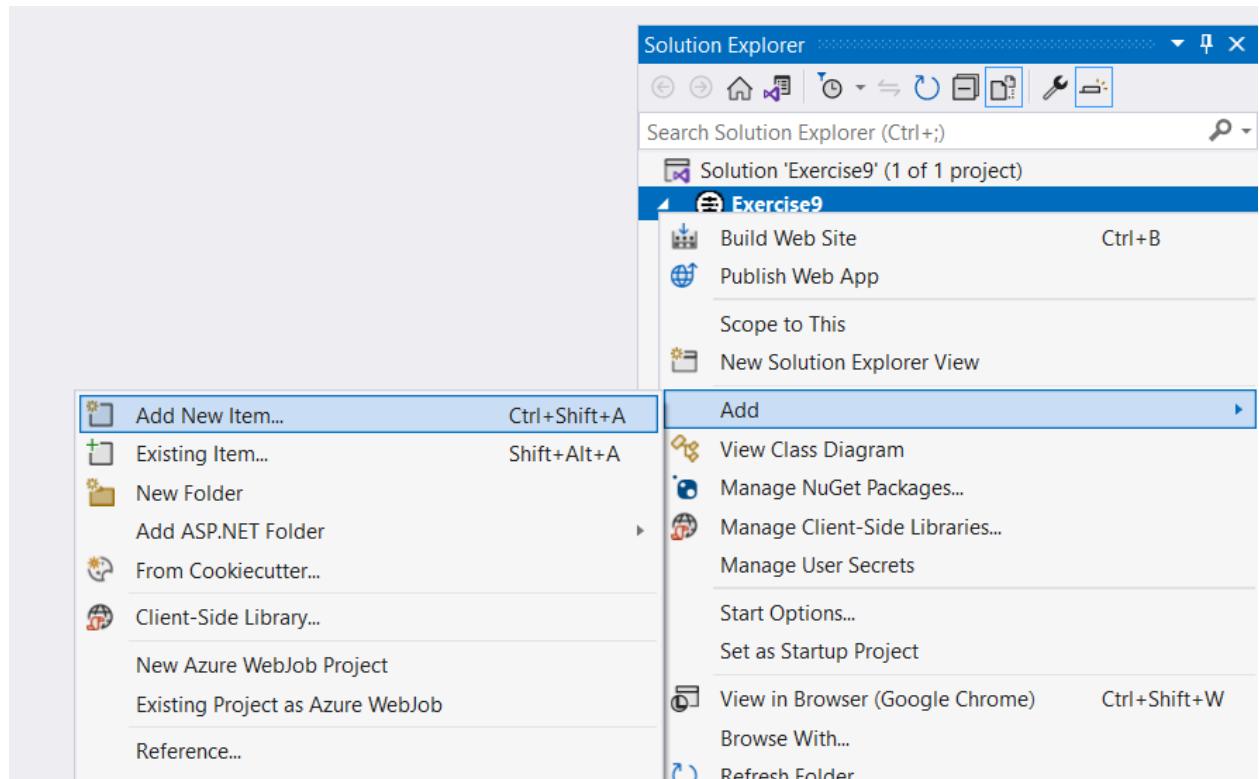
Then click Create



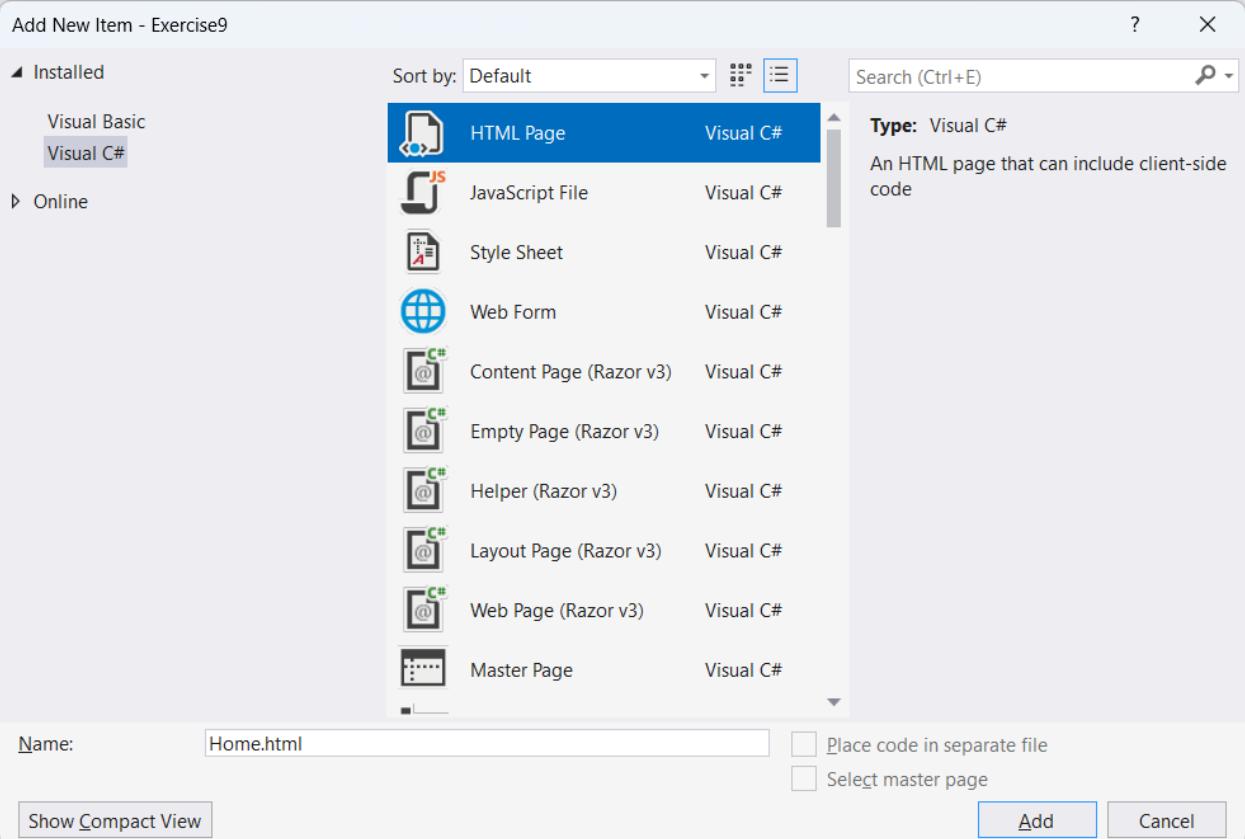
After click create button, the Project Exercise9 is created like figure below:



Step 4: Right click on the Exercise9, then choose Add/ choose Add new Item

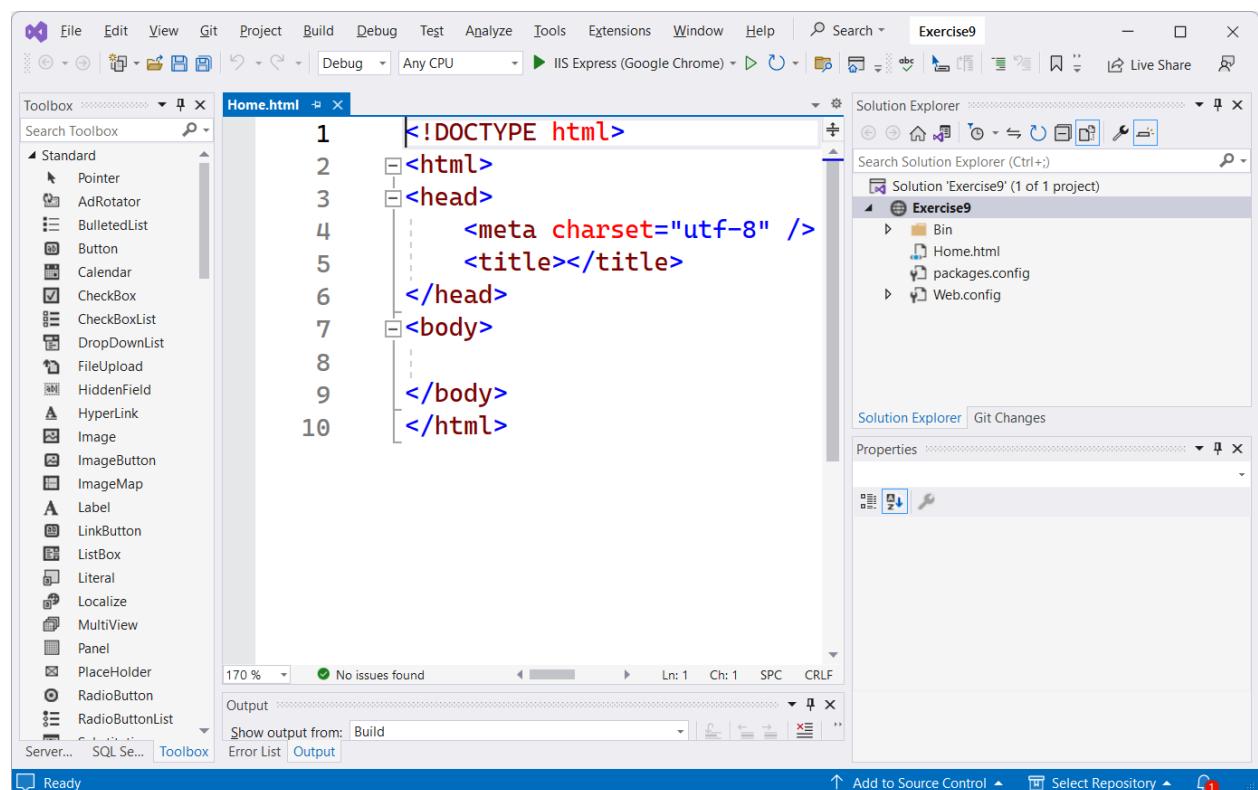


After that the screen add new item should be displayed:



Name: Change to “Home.html” then click Add button

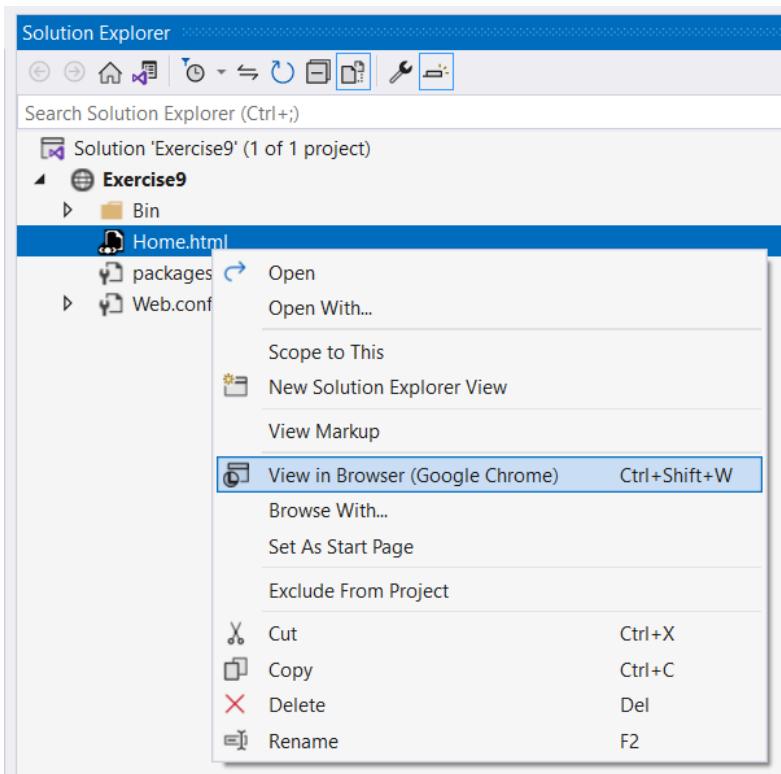
Then, the Screen of Home.html will be displayed as below:



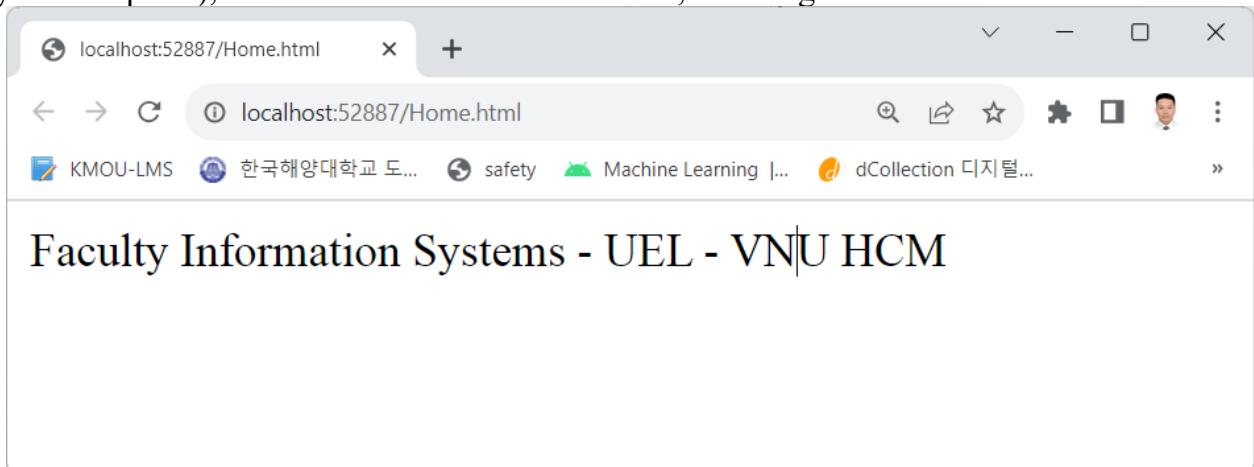
In the Body tag, we write more content:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <title></title>
</head>
<body>
    Faculty Information Systems - UEL - VNU HCM
</body>
</html>
```

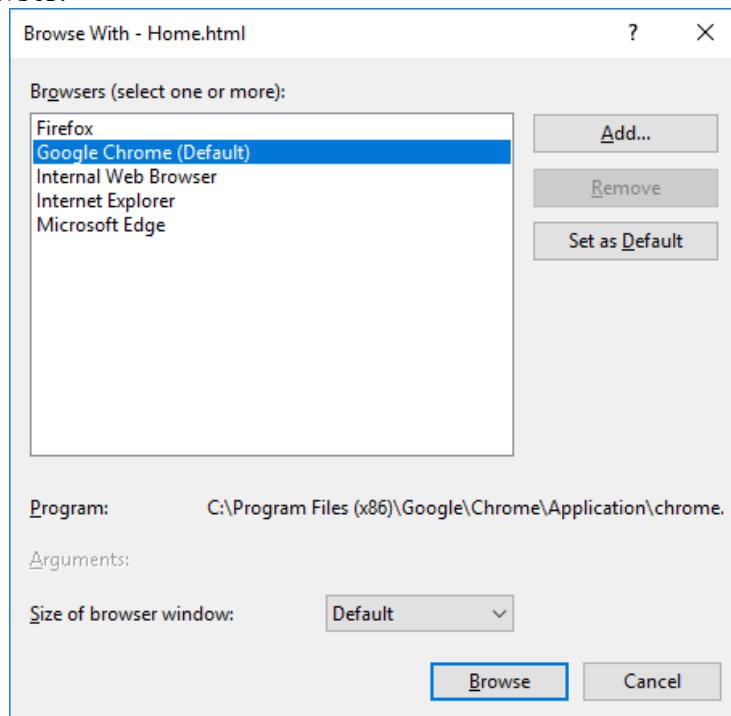
Step 5: To run the Website in Visual studio we have many ways, the simplest way is to right-click on the HTML file you want to run View In Browser or Browser With:



If you choose View In Browser (depending on the browser you are running by default in your computer), Visual will activate that browser, resulting in:



If you choose Browse With: Visual Studio will display a window asking you to choose another browser:

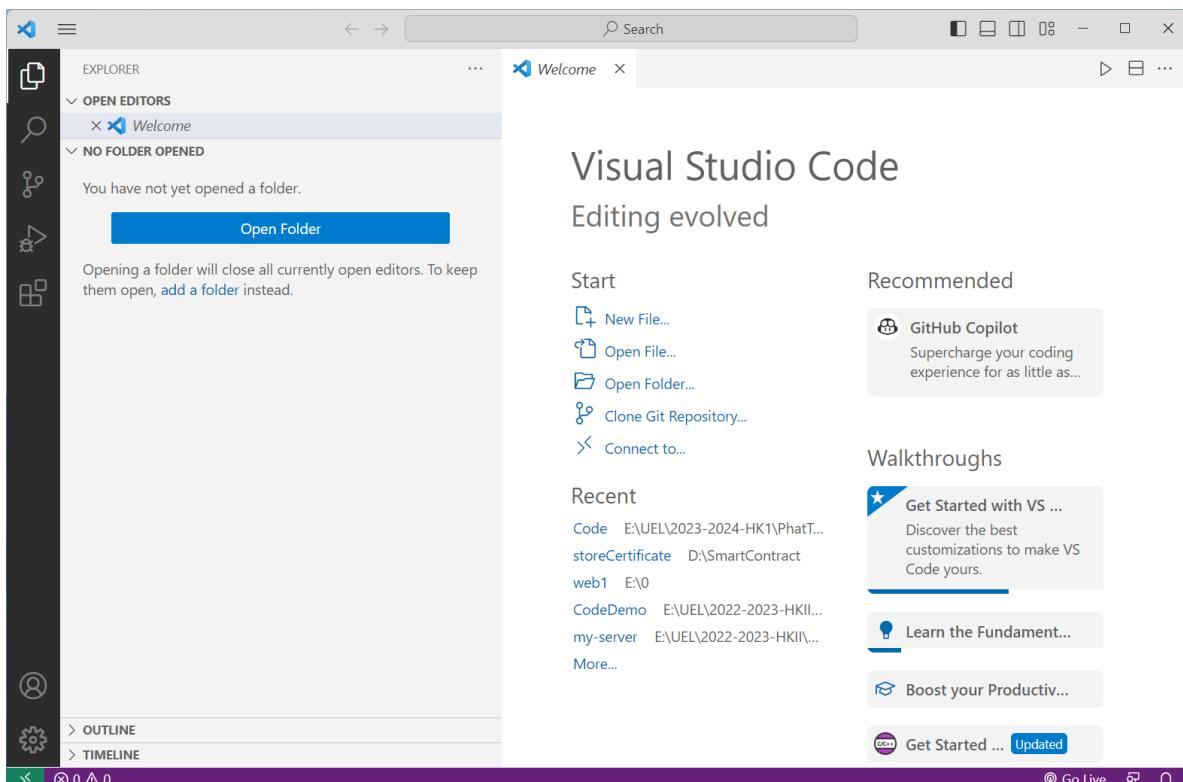


For example, the screen above, the computer has 5 browsers, we want the browser to run by default, select it and click "Set as Default", if you want to run this Website, click the Browse button at the bottom of the window.

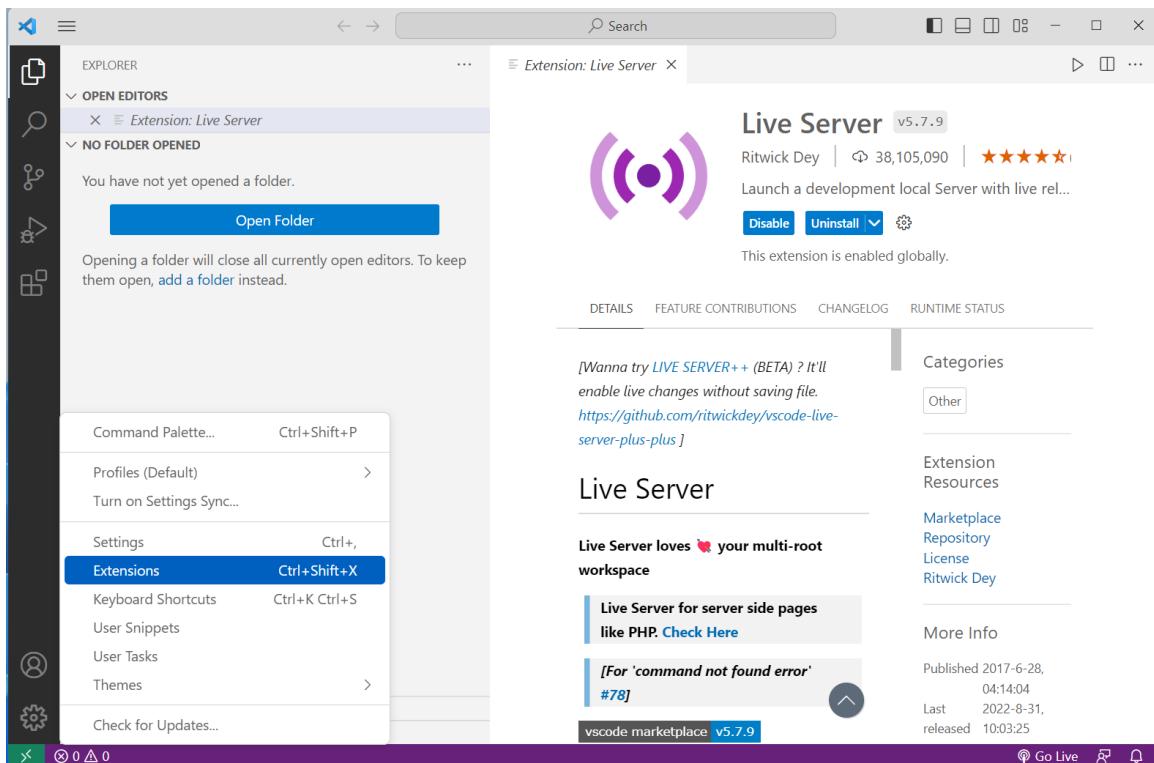
Now, I would like to present writing HTML project on Visual Studio Code.

Step 1: Visit the link to download and setup this software:

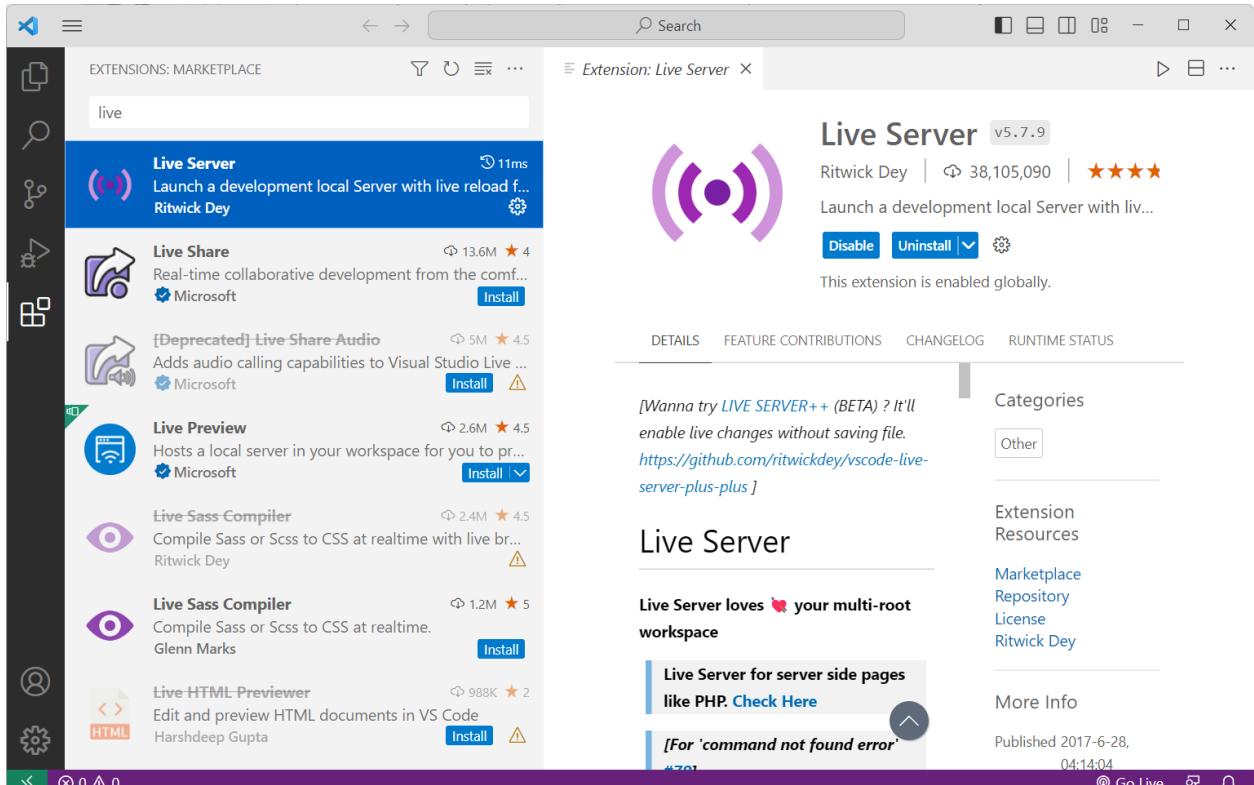
<https://code.visualstudio.com/>



Step 2: Install Live Server extension

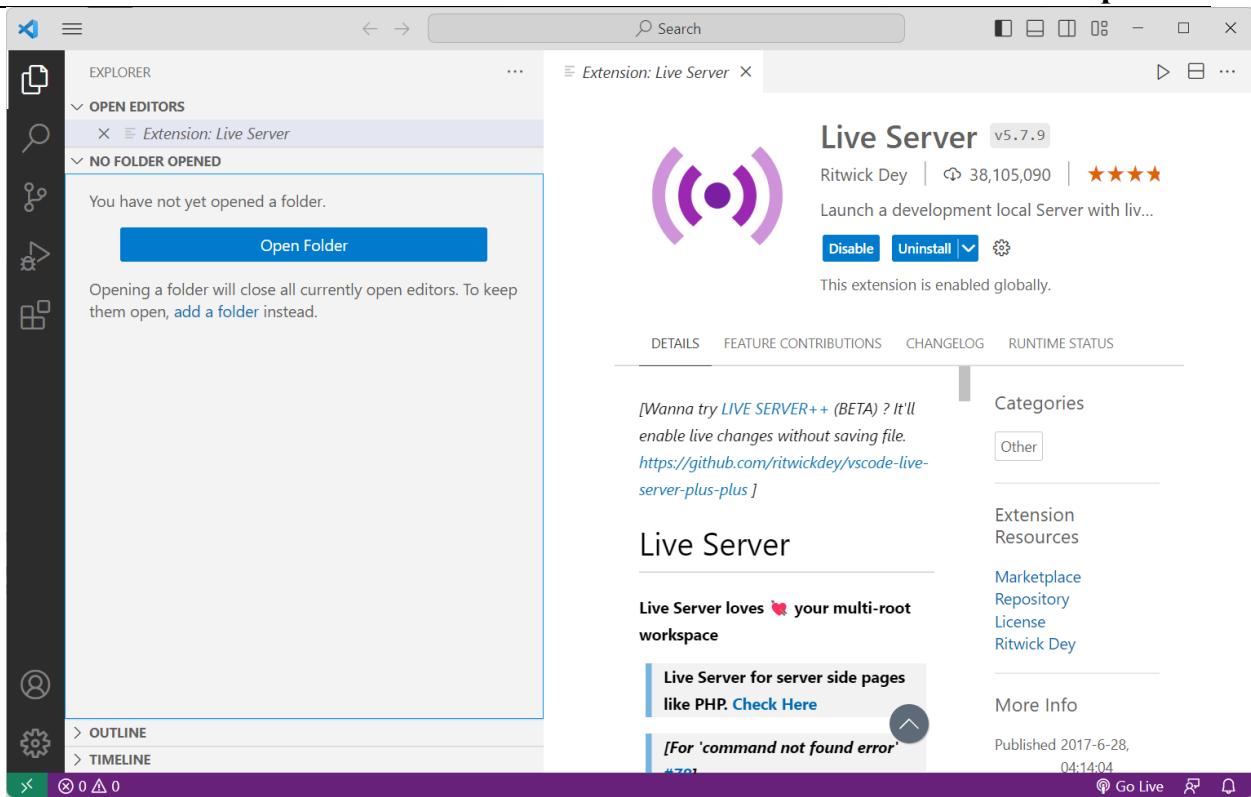


Click on the “Manage” button in the left-bottom screen, then choose “Extensions”
Then search the “Live Server” and click install:



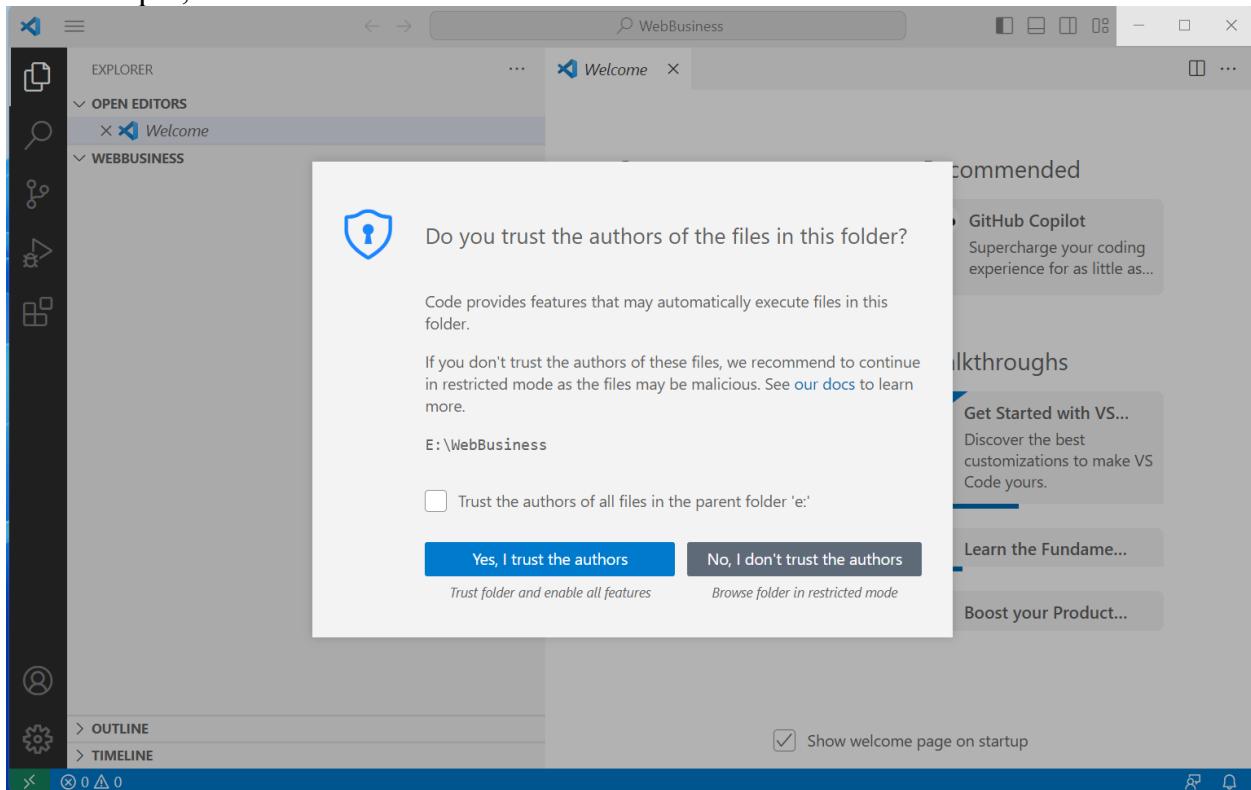
Step 3: Create a Folder/Project for HTML

Come back to the Explorer screen:

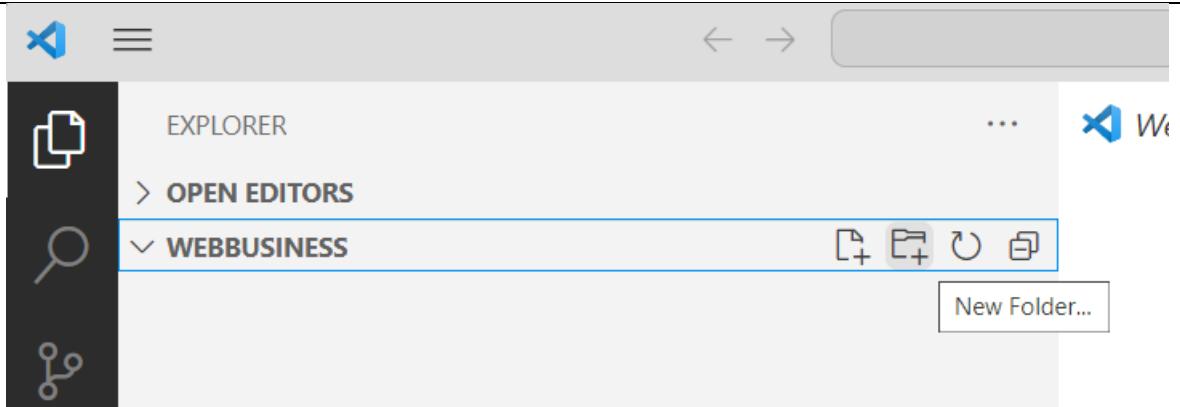


Click “Open Folder” button to set the folder for editors.

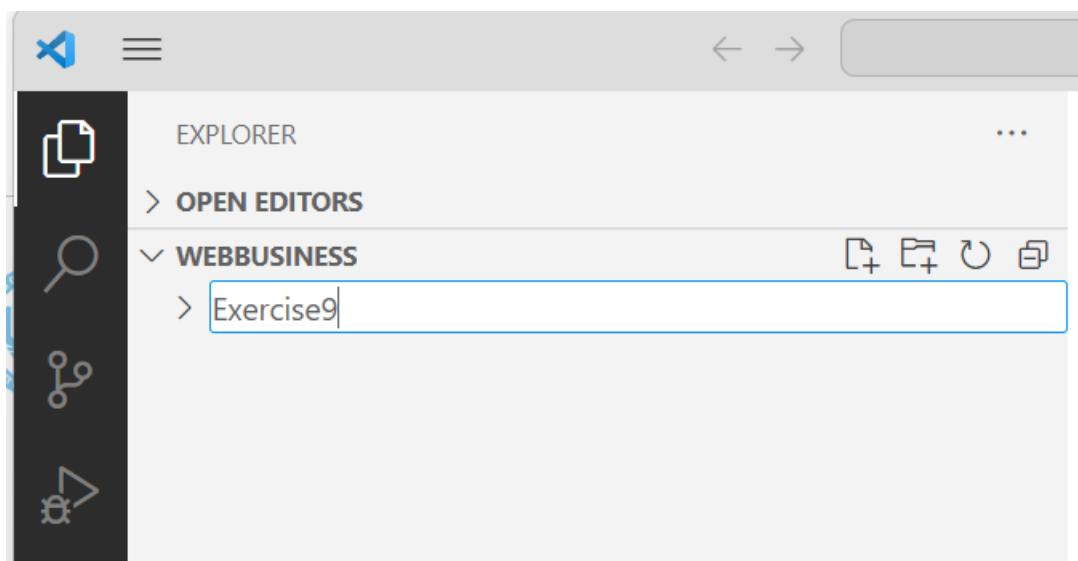
For example, choose E:\WebBusiness



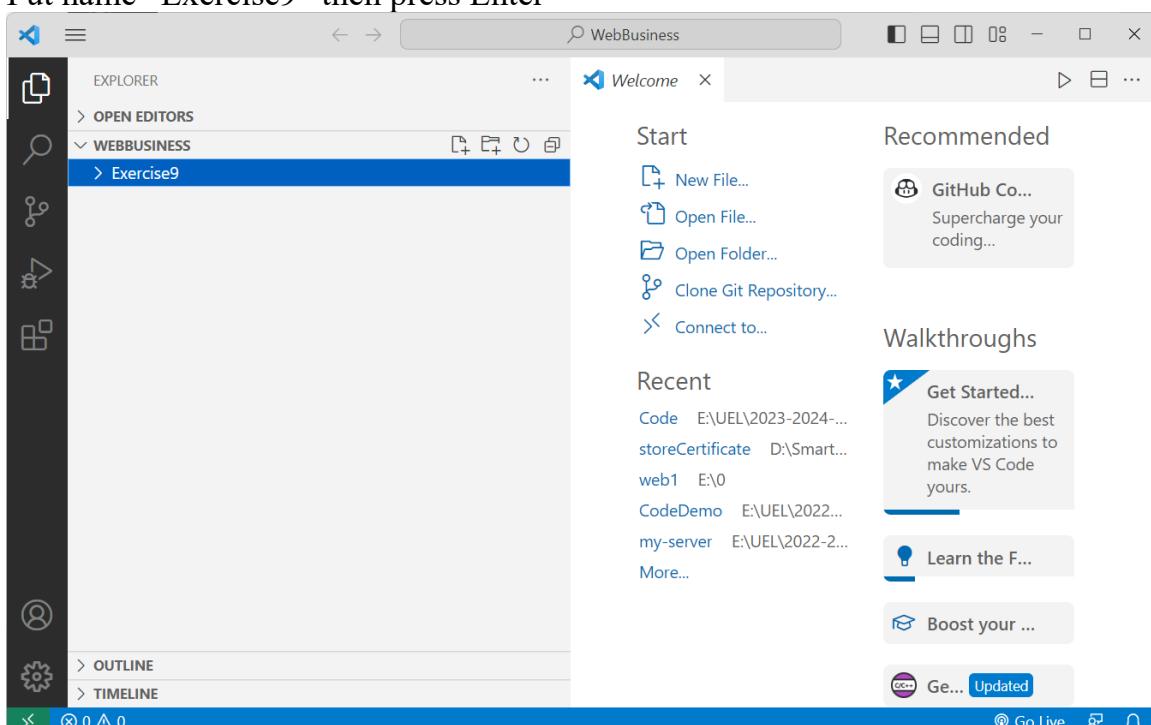
Click “Yes I trust the authors” if the screen below is popup.



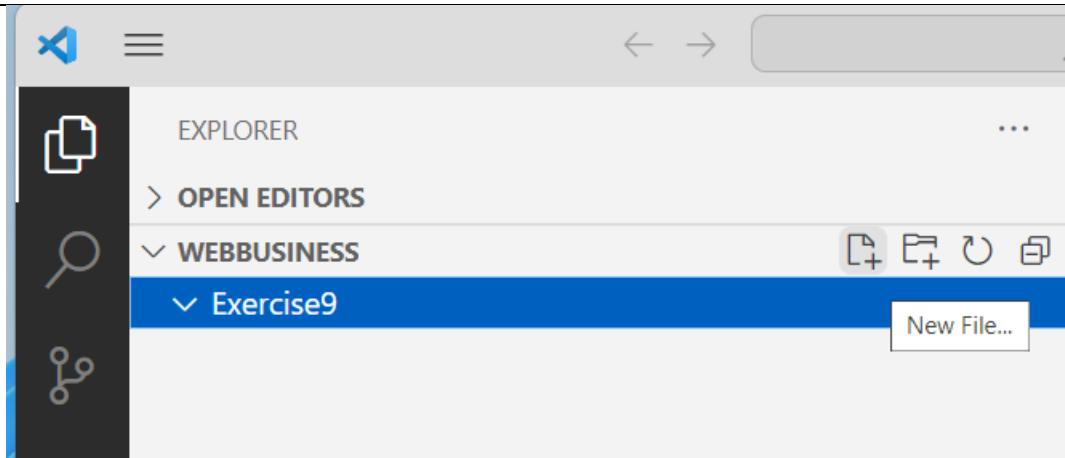
Then click New Folder button as picture above.



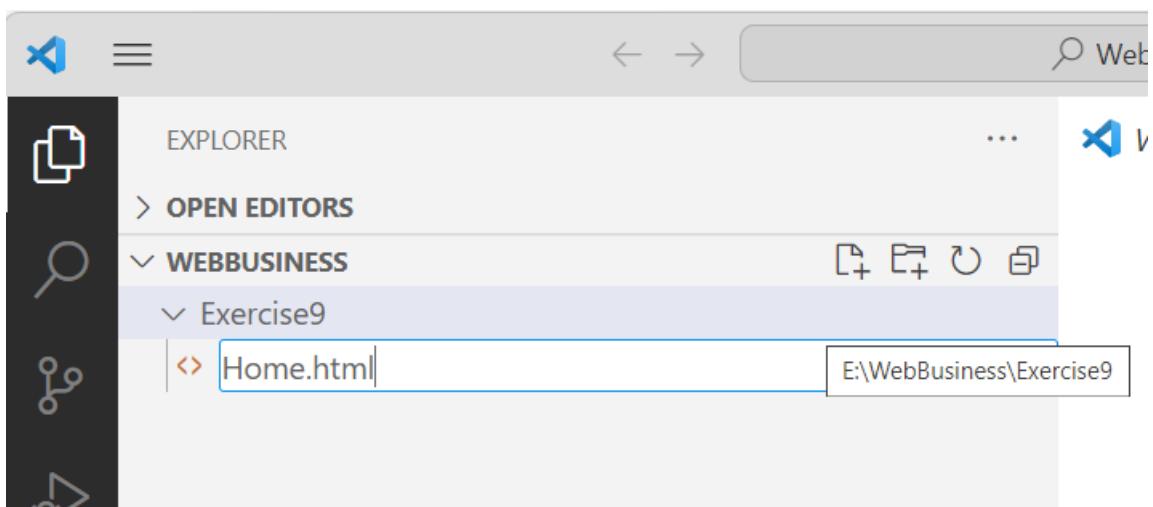
Put name "Exercise9" then press Enter



Create a new file (HTML file) in Exercise9, click button to create file:

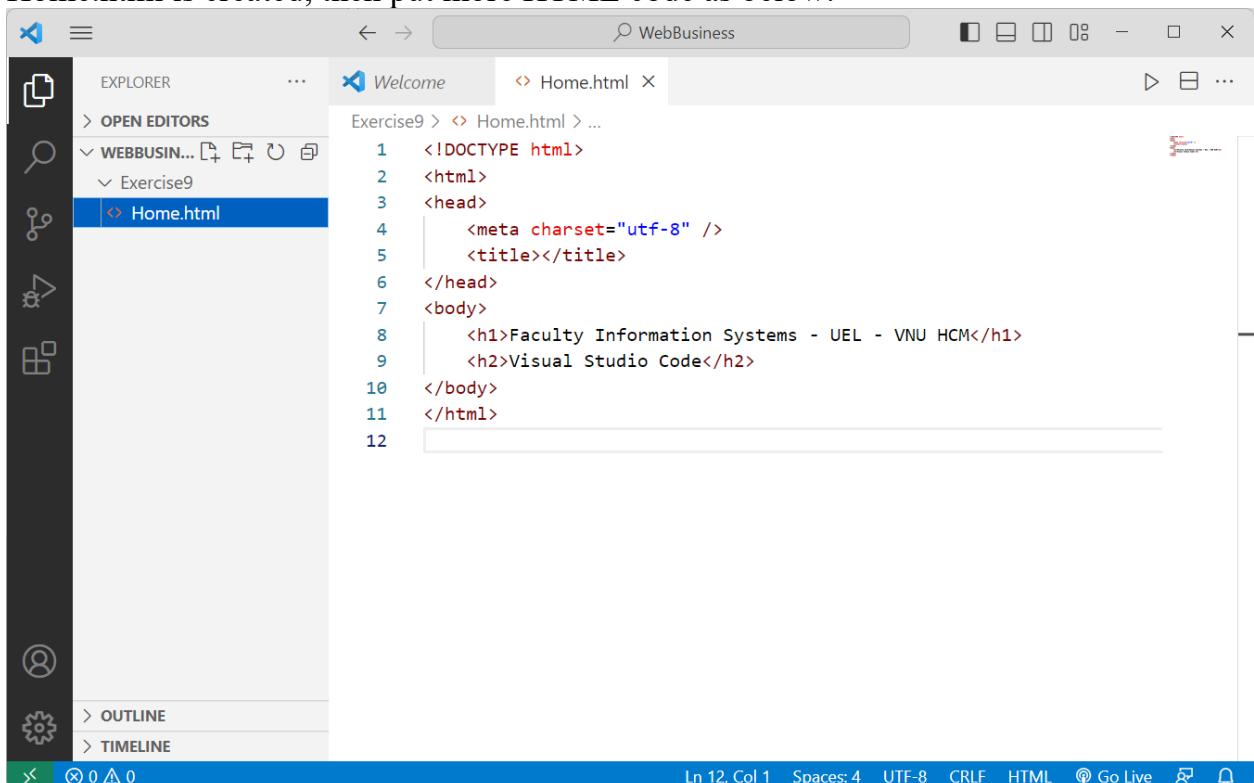


Click button “New File...”



Enter “Home.html” then press Enter

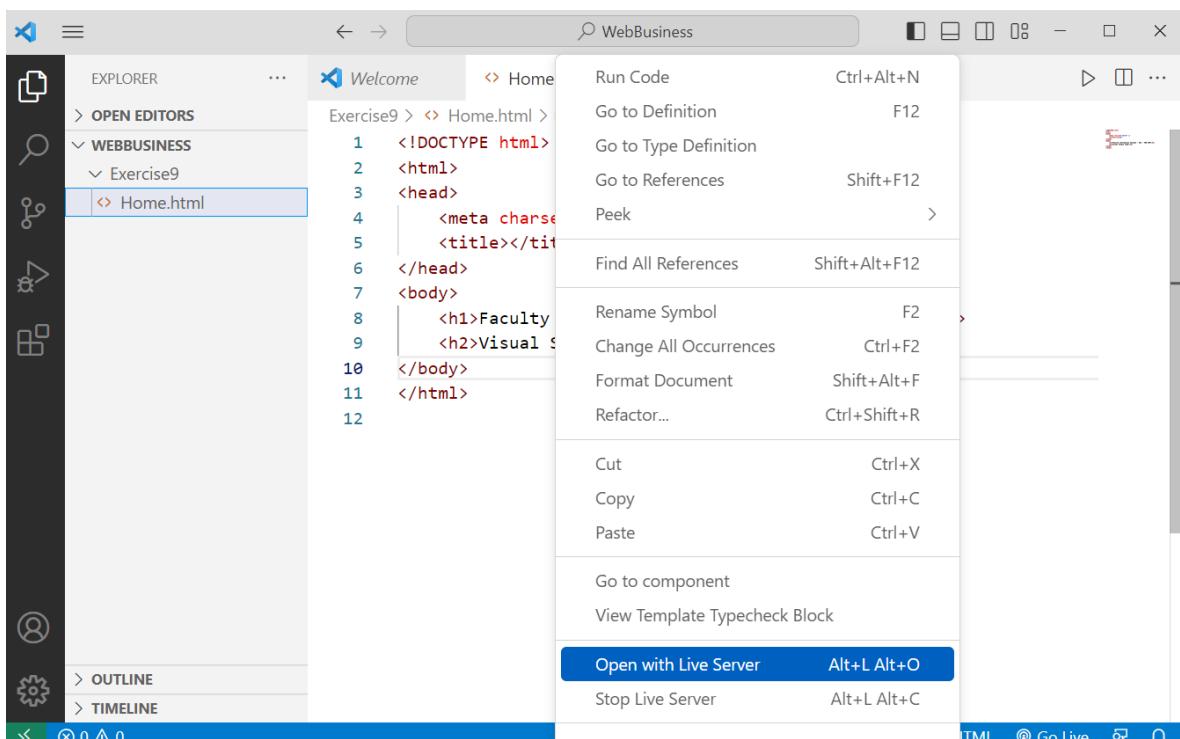
Home.html is created, then put more HTML code as below:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <title></title>
6 </head>
7 <body>
8   <h1>Faculty Information Systems - UEL - VNU HCM</h1>
9   <h2>Visual Studio Code</h2>
10 </body>
11 </html>
```

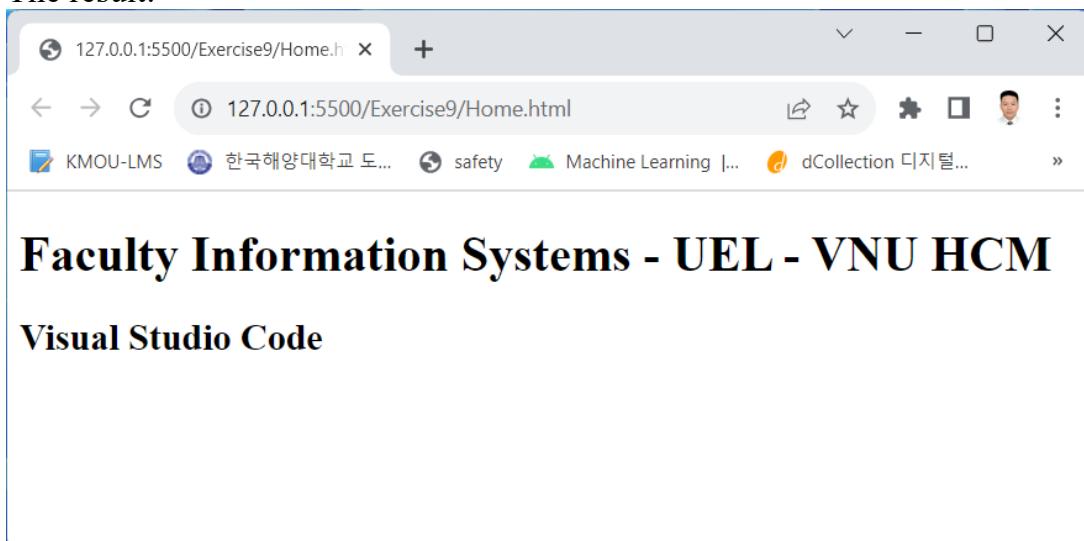
```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <title></title>
</head>
<body>
    <h1>Faculty Information Systems - UEL - VNU HCM</h1>
    <h2>Visual Studio Code</h2>
</body>
</html>
```

Step 4: Run the HTML project



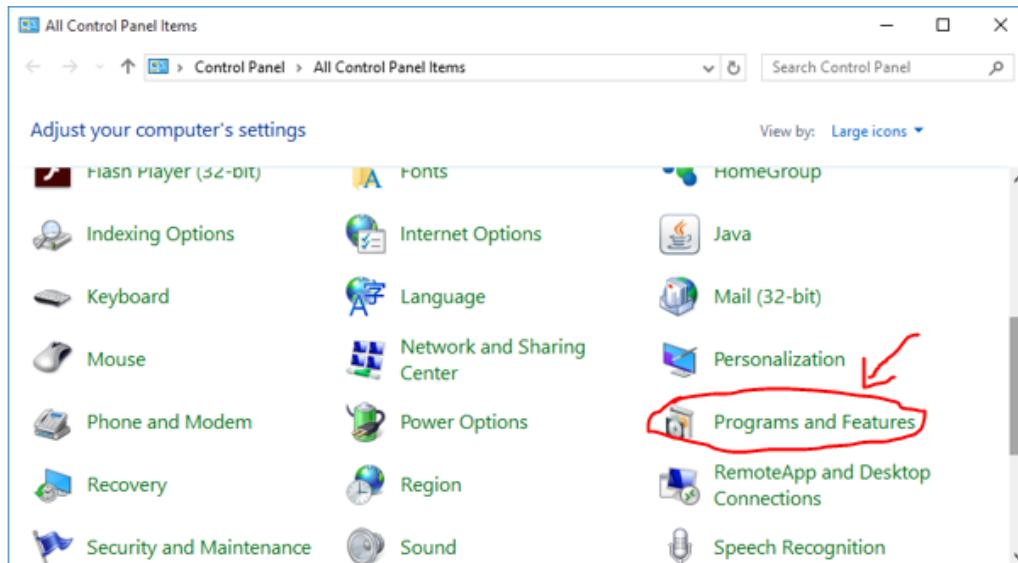
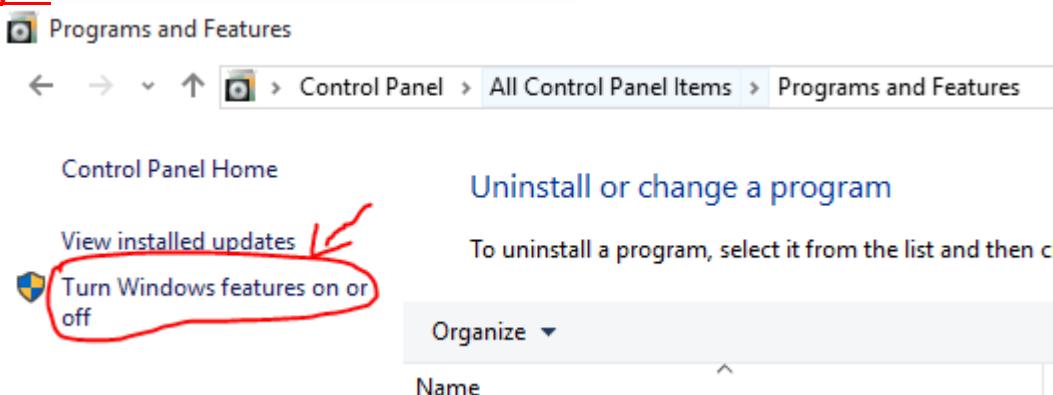
Right click on the “Home.html” then click “Open with Live Server”

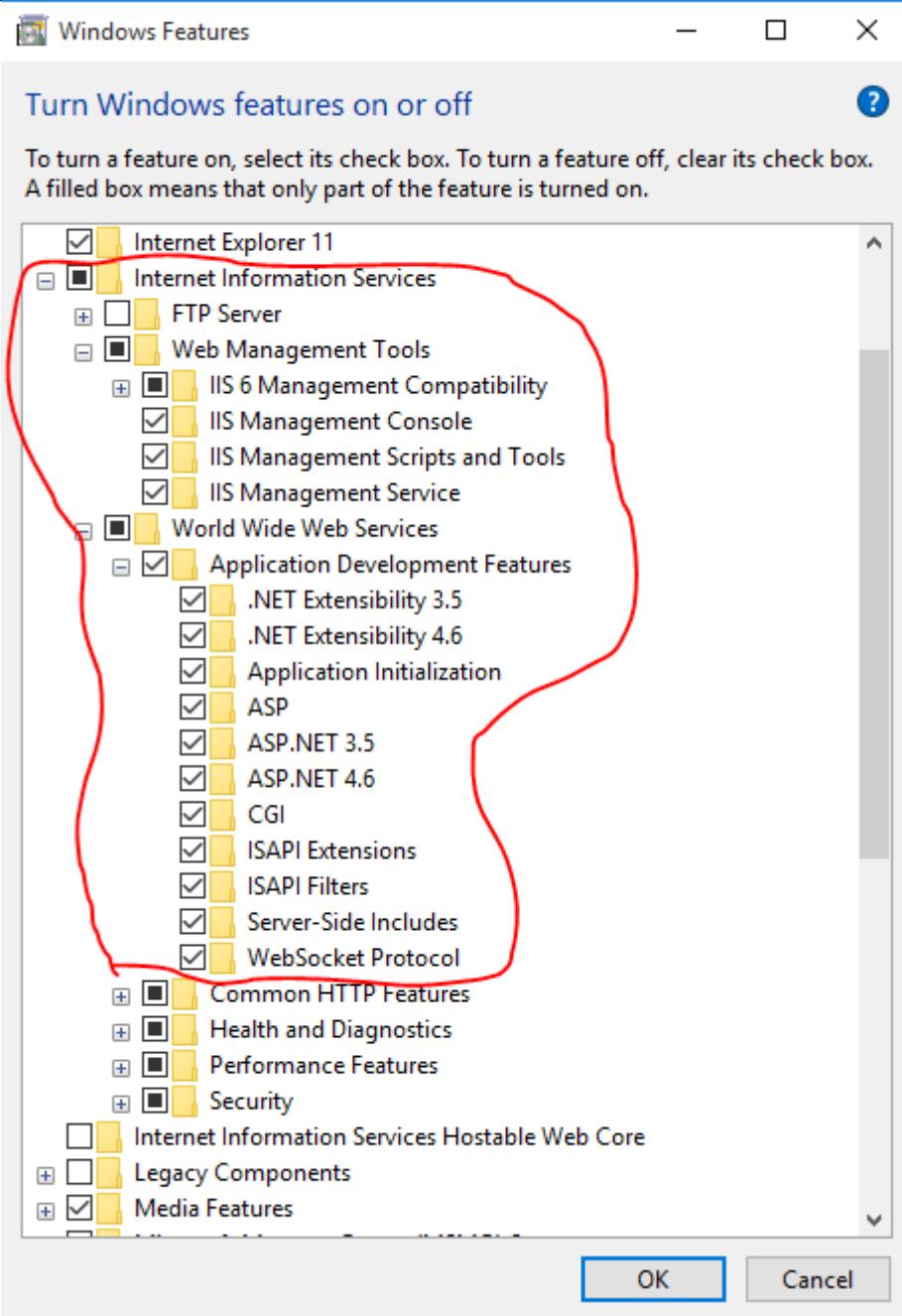
The result:



Exercise 10: Configure IIS Web Server**Requirement:**

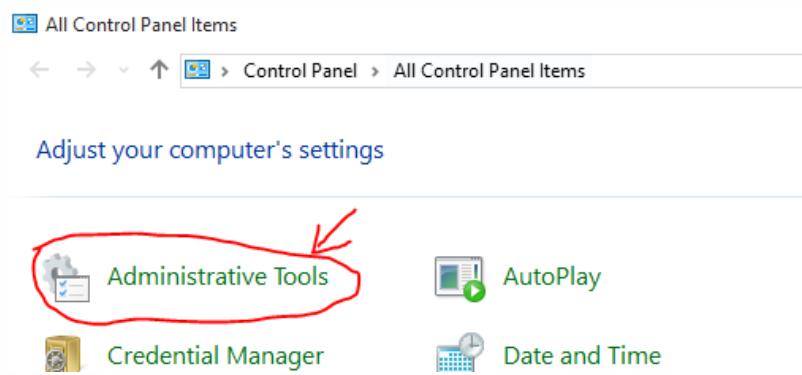
Let's configure IIS Webserver and deploy exercise 1 to WebServer so that this Website can be run on LAN.

Instructions:**Step 1: Go to Control panel and select Programs and Features****Step 2: Select Turn Windows features on or off:****Step 3: Make the selection to install IIS Web Server according to the screen below:**

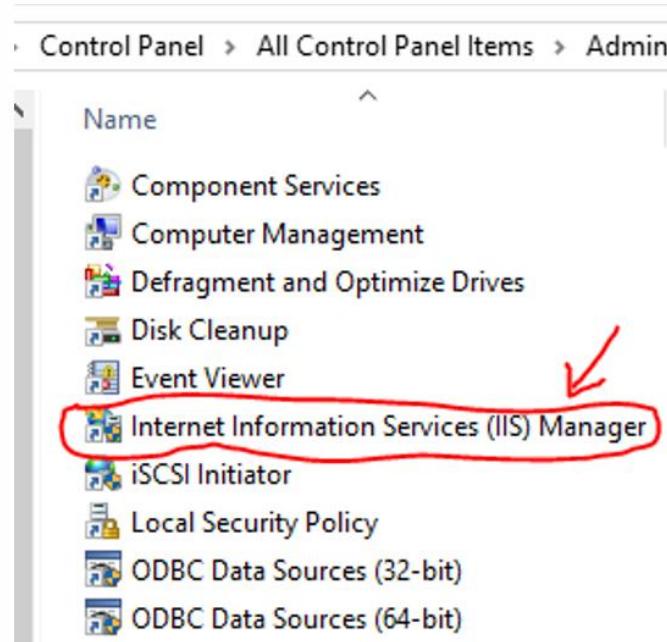


After selecting like the red circled frame, click OK to proceed with the installation, depending on the machine, the program can install from 5-10 minutes.

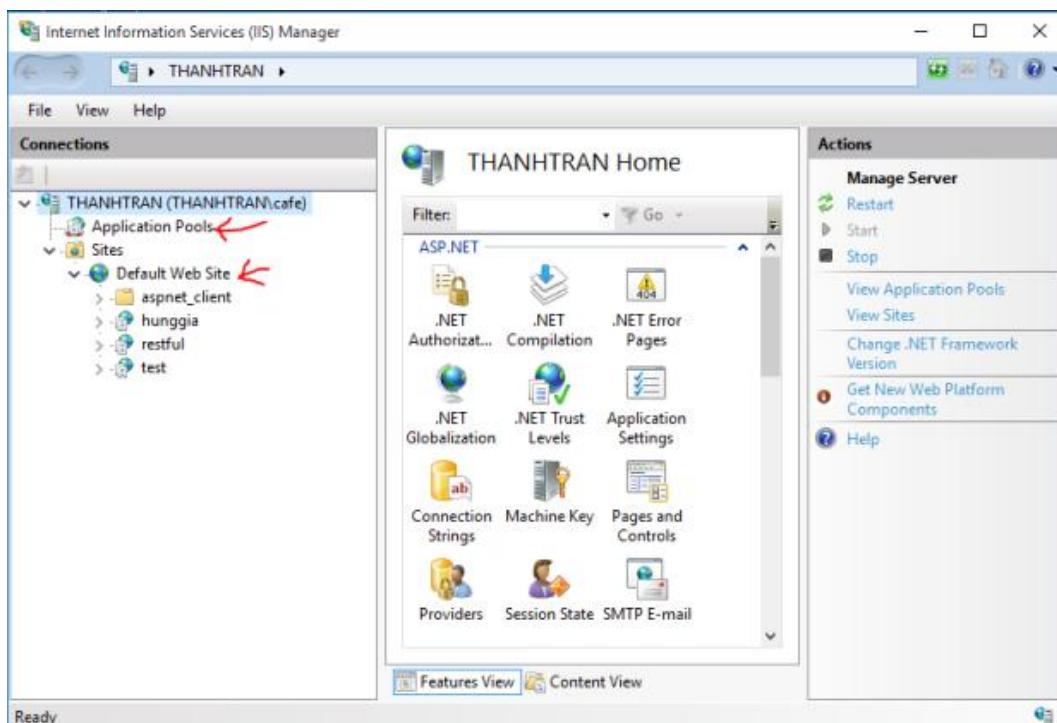
Step 4: Using IIS Web Server: After installing IIS Web Server, you return to the Control panel screen, you will see Administrative Tools:



You click on the Administrative Tools icon, we have the next screen:



You select "Internet Information Services (IIS) Manager" as shown above:



In the admin screen you see there are 2 areas: Application Pools and Default Web site.

Step 4.1 Configure Application Pools:

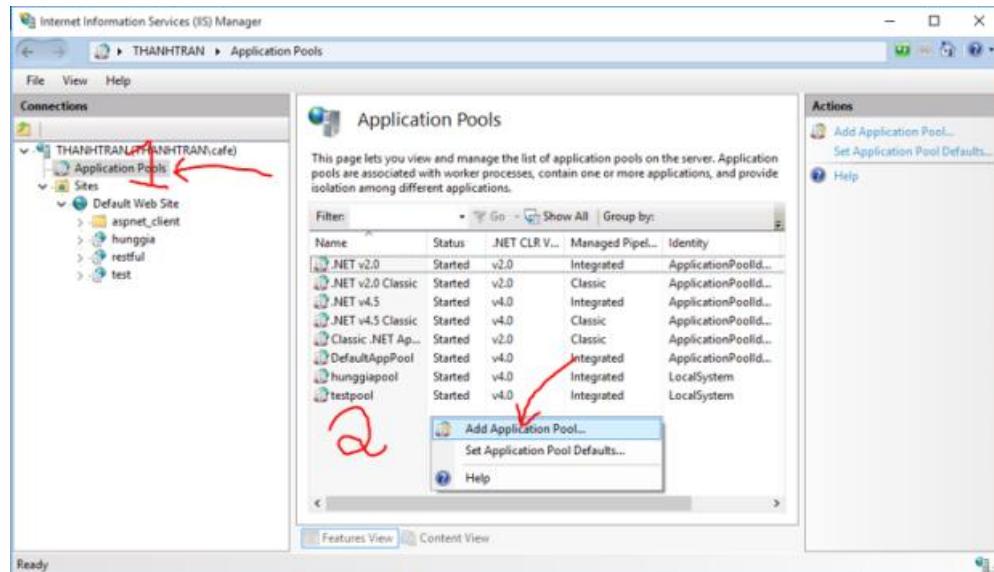
What is Application Pool?

The Application Pool can contain one or more applications and allows us to configure the level between different web applications. For example, if you want to isolate all web

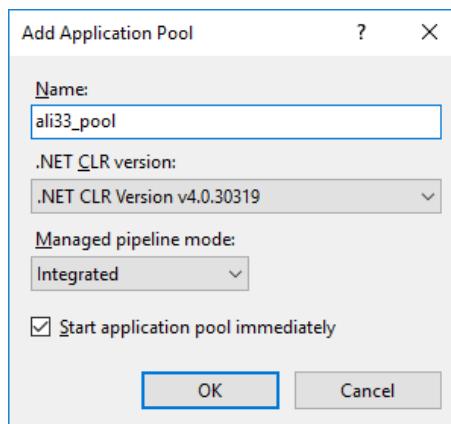
applications running on the same machine, you can do this by creating a separate Application Pool for each web application and placing them in the respective Application Pool. Because each Application Pool runs in its own process, failures in the Application Pool will not affect applications running in other Application Pools. Deploying applications in the Application Pool is the main advantage of IIS during isolated work because you can customize the Application Pool to achieve the level of application isolation you need.

As you configure the Application Pool for optimal availability, you should also consider how to configure the Application Pool to secure the application. For example, you may need to create a separate Application Pool for applications that require a high level of security, while allowing applications that require a lower level of security to share the same Application Pool.

You right-click on the **Application Pools** screen / select **Add Application Pool...** as shown below:



The screen to create a new Application Pool is displayed, enter "ali33_Pool" and then click OK:



After clicking OK, you observe:

Name	Status	.NET CLR V...	Managed Pipel...	Identity	Applications
.NET v2.0	Started	v2.0	Integrated	ApplicationPoolId...	0
.NET v2.0 Classic	Started	v2.0	Classic	ApplicationPoolId...	0
.NET v4.5	Started	v4.0	Integrated	ApplicationPoolId...	0
.NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolId...	0
ali33_pool	Started	v4.0	Integrated	ApplicationPoolId...	0
Classic .NET AppPool	Started	v2.0	Classic	ApplicationPoolId...	0
DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolId...	3
foodmanagerpool	Started	v4.0	Integrated	LocalSystem	1
FoodServer_Pool	Started	v4.0	Integrated	LocalSystem	0
hunggiapool	Started	v4.0	Integrated	LocalSystem	5
restpool	Started	v4.0	Integrated	LocalSystem	1
testpool	Started	v4.0	Integrated	LocalSystem	3
tui_pool	Started	v4.0	Integrated	LocalSystem	1

In the above screen, continue to select Advanced Settings... for ali33 Pool:

Advanced Settings

Start Mode	OnDemand
CPU <ul style="list-style-type: none"> Limit (percent) 0 Limit Action NoAction Limit Interval (minutes) 5 Processor Affinity Enabled False Processor Affinity Mask 4294967295 Processor Affinity Mask (64-bit) 4294967295 	
Process Model <ul style="list-style-type: none"> Generate Process Model Event L 	

Application Pool Identity

Built-in account: LocalSystem

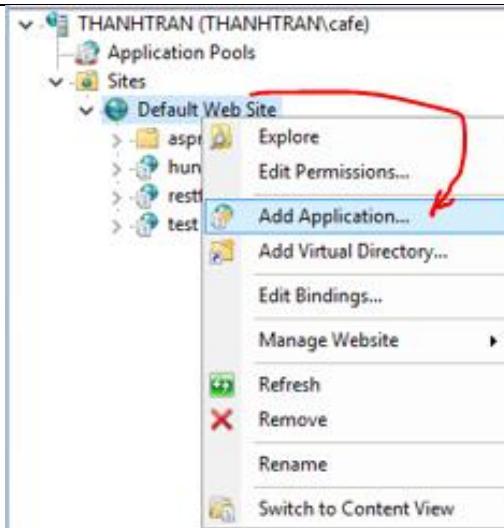
Custom account: Set...

OK Cancel

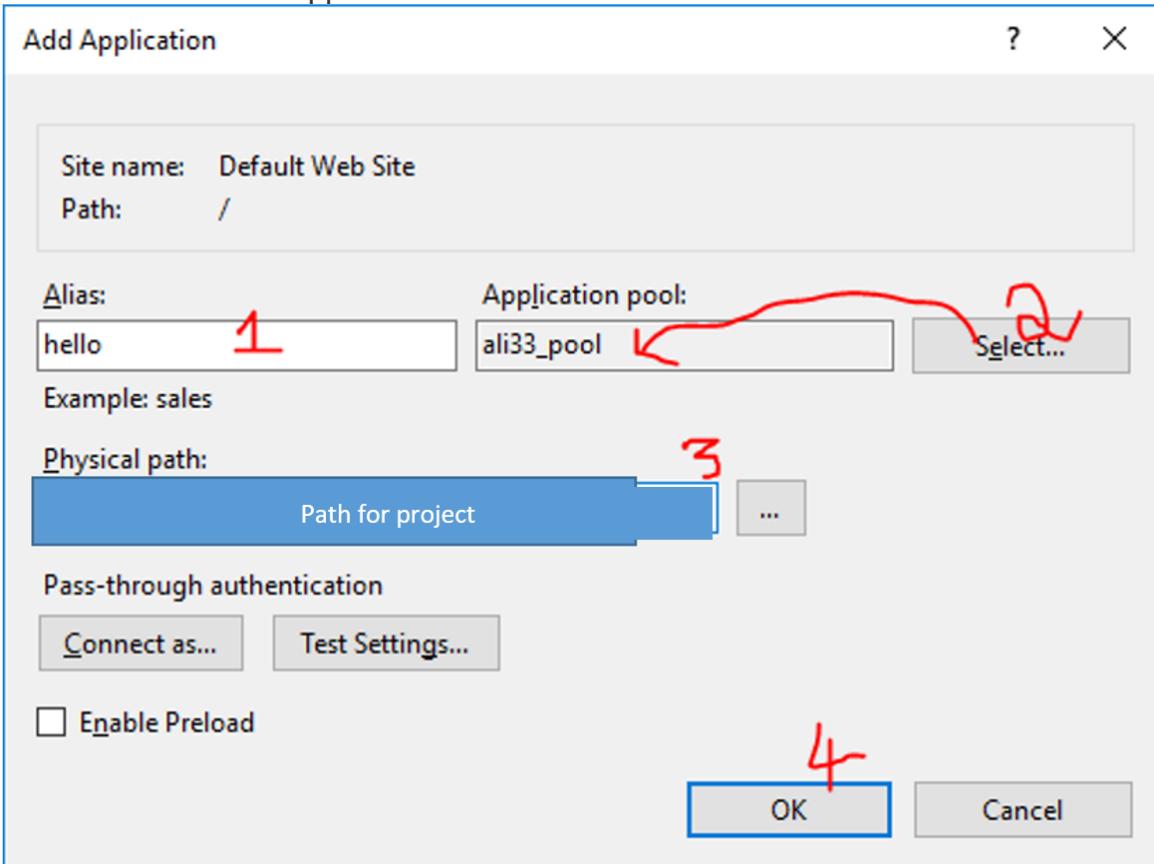
You need to set the **ApplicationPoolIdentity** via **LocalSystem**.

Step 4.2: Configure WebService on IIS Server

Right-click **Default Web Site** / select **Add Application...**



The screen shows Add Application:



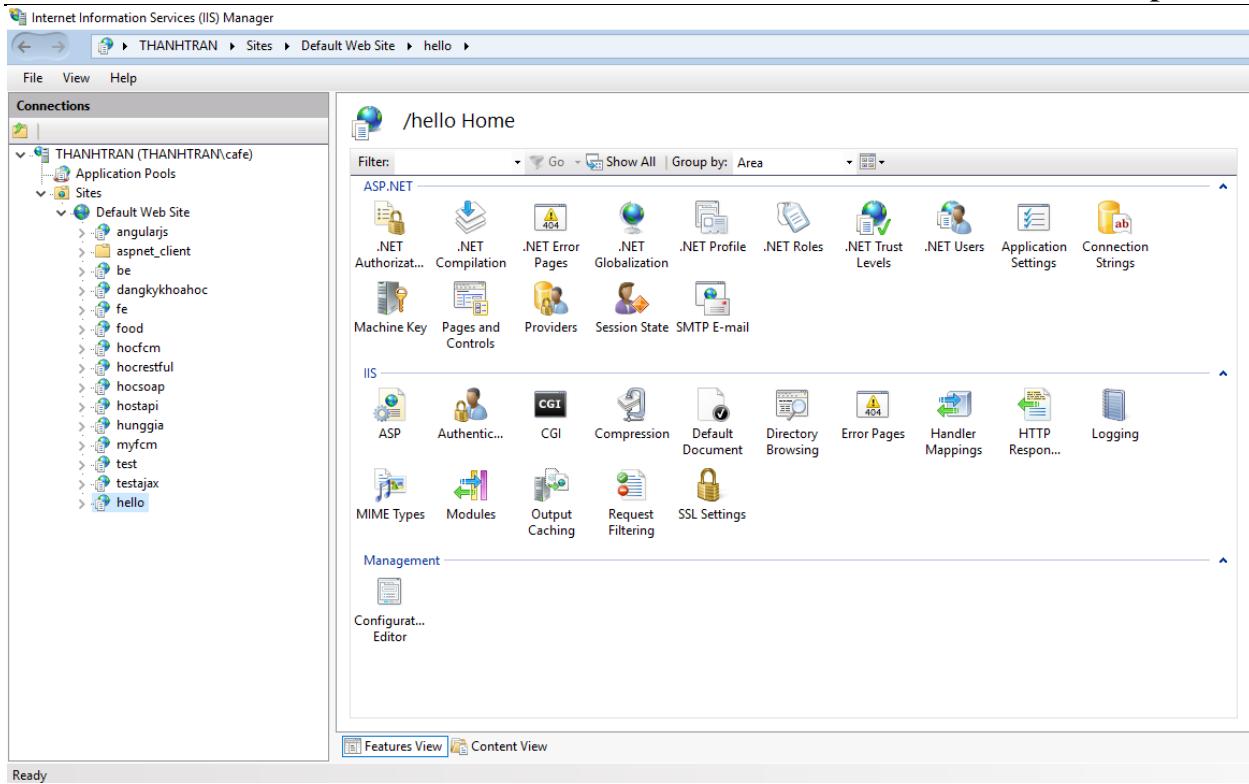
Section Alias (1): Name the Website, here we put hello

Application pool (2): Press the Select... button and select the correct ali33_pool

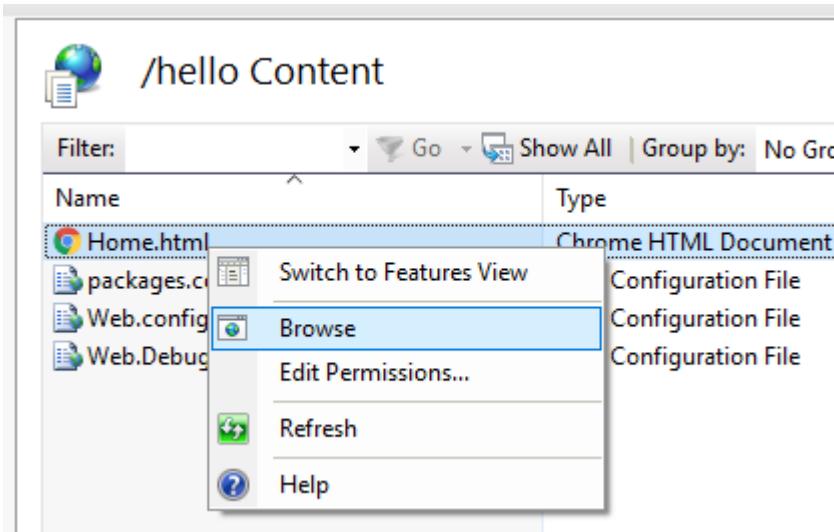
Physical path (3): Point to the path containing the source code of the project

Then click OK to create.

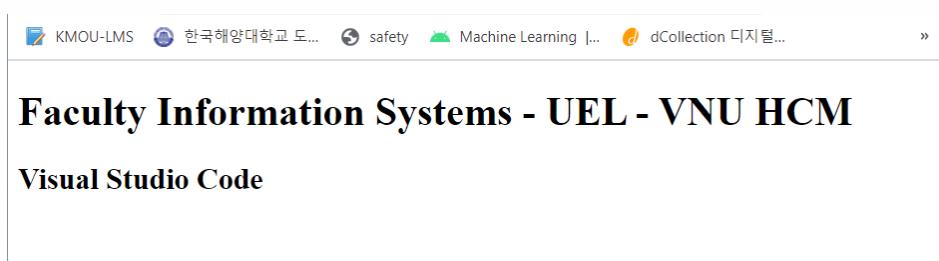
You observe the results:



We select hello in the Default Web Site group → select the Content View Tab (see below):

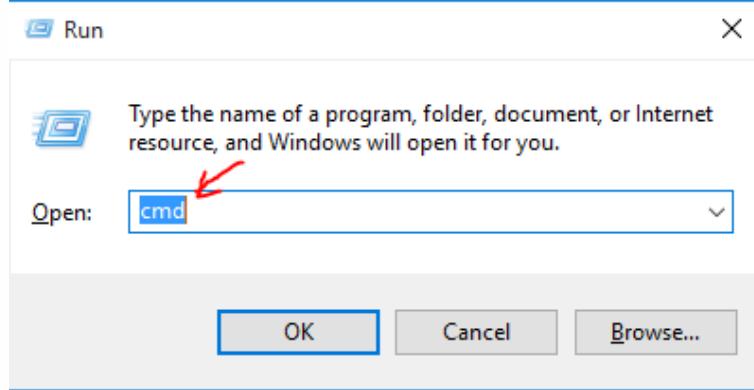


To run a page, right-click it and select Browse:

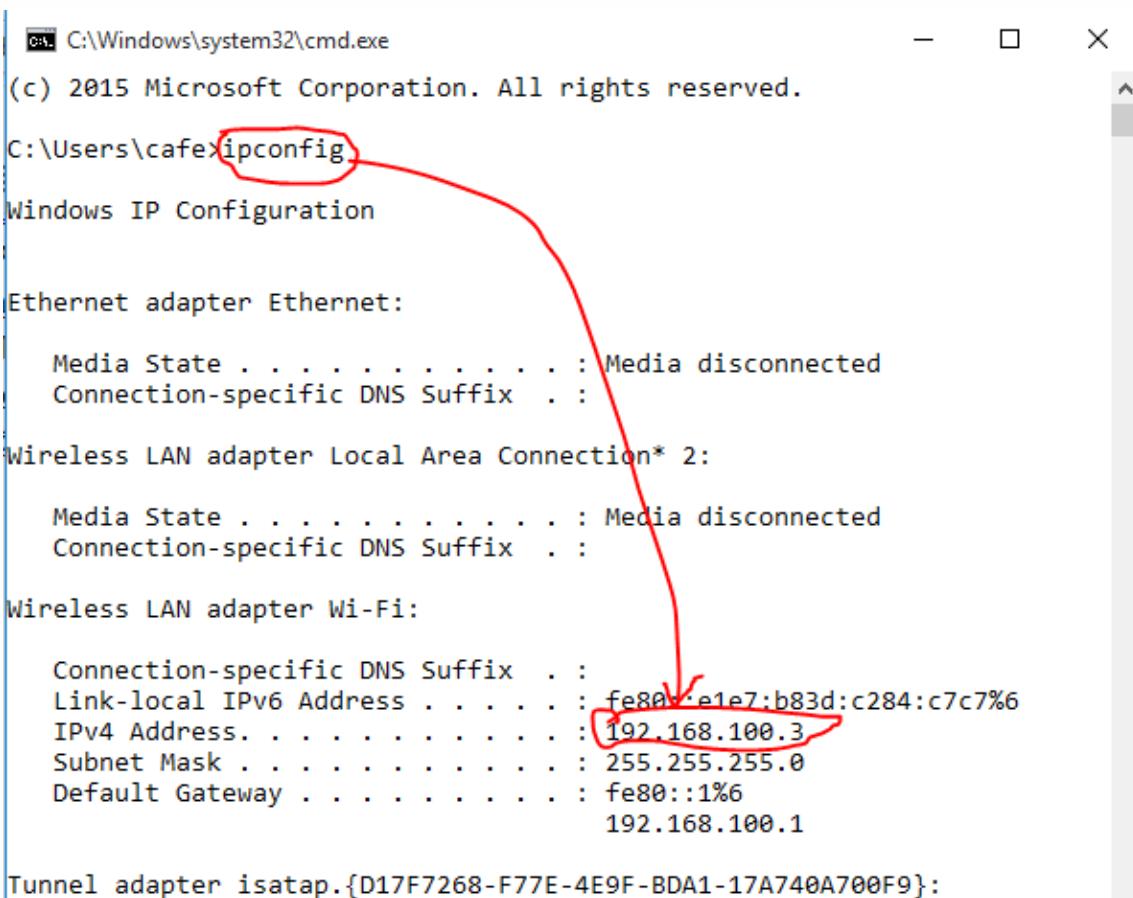


Step 4.3: How to get the IP address of my local machine:

- Press the key combination with Windows + R icon to open the Run window:



- Type **cmd** command, command line screen displays, continue to type **ipconfig** command



```
C:\Windows\system32\cmd.exe
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\cafe>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix . :
    Link-local IPv6 Address . . . . . : fe80::e1e7:b83d:c284:c7c7%6
    IPv4 Address. . . . . : 192.168.100.3
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%6
                                192.168.100.1

Tunnel adapter isatap.{D17F7268-F77E-4E9F-BDA1-17A740A700F9}:
```

Above We see the IP address 192.168.100.3 → depending on your machine it will be different

You replace localhost (or 127.0.0.1) to 192.168.100.3 , then other computers will access your machine according to this IP address.

Step 4.4: How to Configure Default Home Page for Website

We remember that a Website has many pages, must have a default page as the homepage when the Website is operated → we need to configure. The default IIS Web Server takes the Sites with the following names as Home Pages:

Default.htm

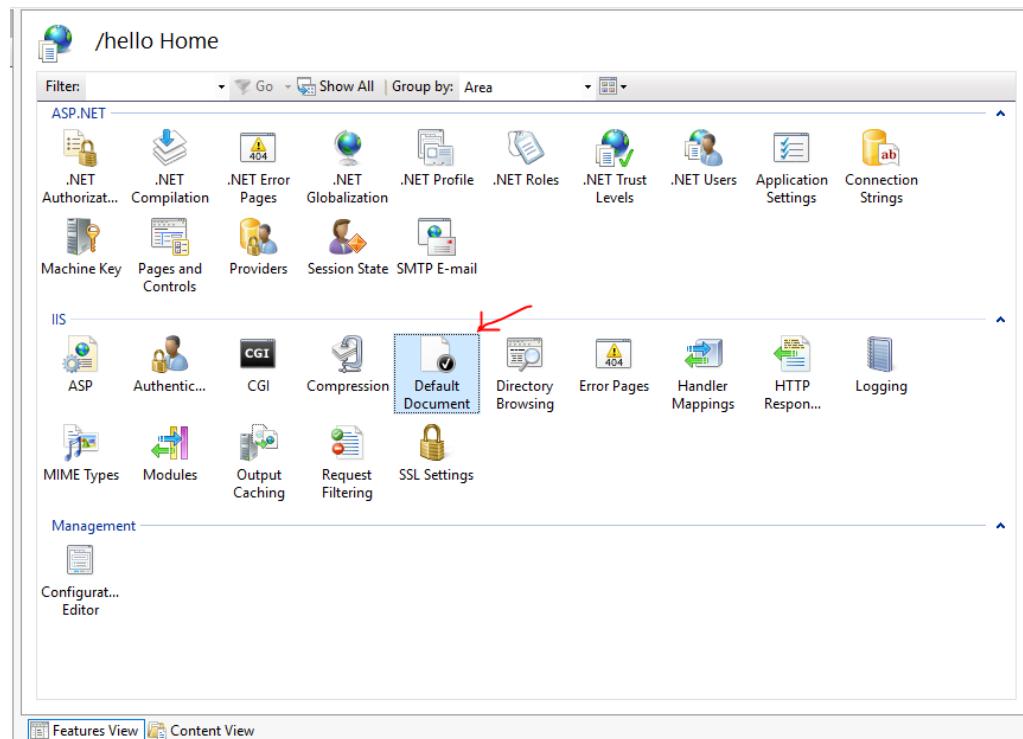
Default.asp

Default.aspx**index.htm****index.html****iisstart.htm**

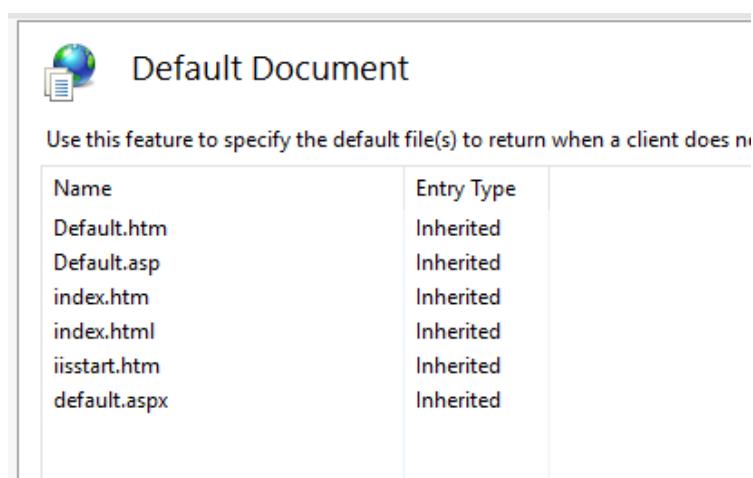
Therefore, if in the Website system, IIS does not find any Web site name with the same name above, running it will give an error that cannot see the homepage, we have 2 solutions to make the homepage:

Solution 1: Have a Page with the same name as the default files above**Solution 2:** Specify a page with any name as the homepage

We will handle solution 2 → Hello on the right choose Default Document:



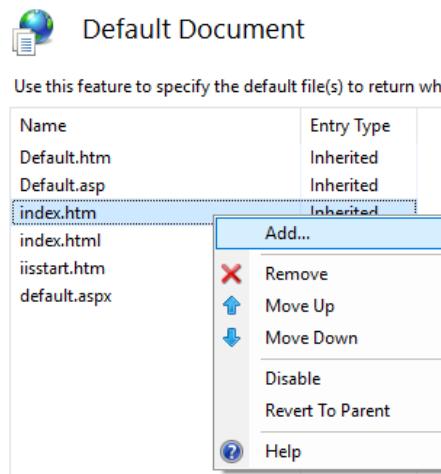
You see the Default Document list displayed as below:



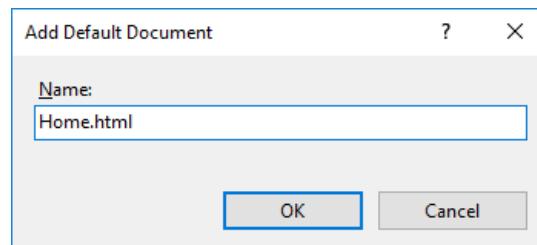
The screenshot shows the 'Default Document' configuration page. The title is 'Default Document'. A sub-instruction says 'Use this feature to specify the default file(s) to return when a client does not specify a file.' Below is a table:

Name	Entry Type
Default.htm	Inherited
Default.asp	Inherited
index.htm	Inherited
index.html	Inherited
iisstart.htm	Inherited
default.aspx	Inherited

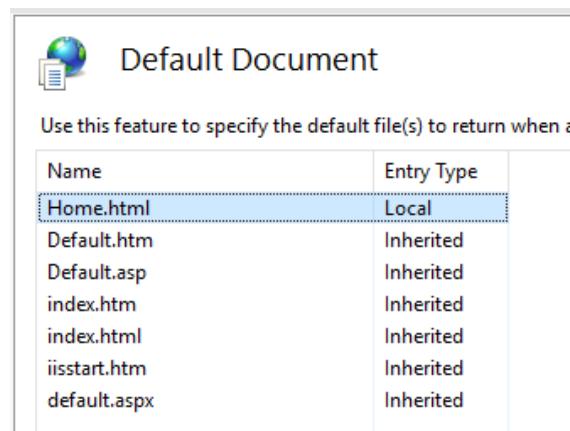
Right-click and select Add:



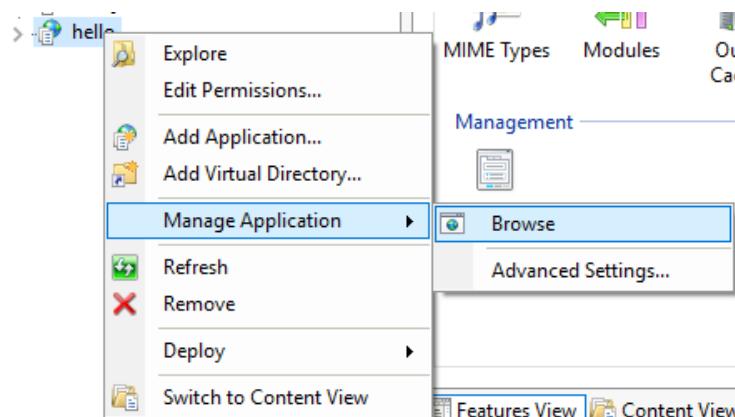
Then type the name of the Web site that you want to set as the homepage:



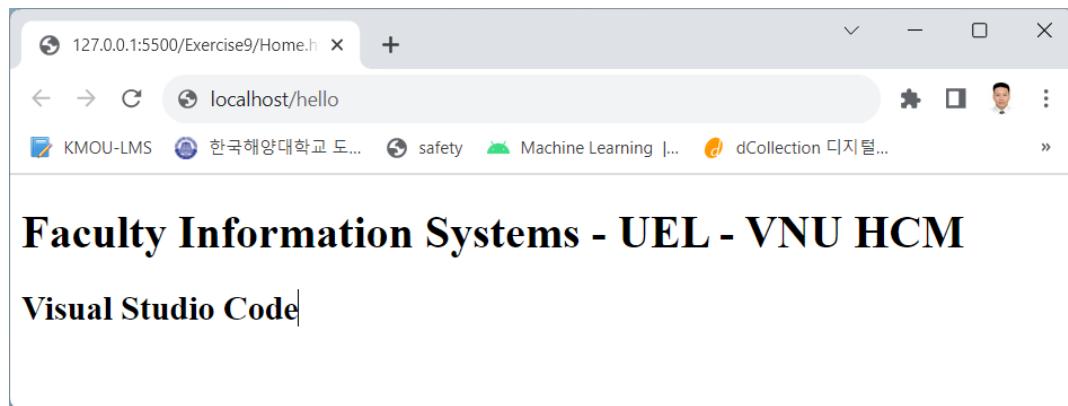
Click OK to set up:



After successful setup, right-click hello / select Manage Application / select Browse:



Result:



Note: We no longer see the Home.html page displayed in the address bar (remember that if you don't set the homepage, IIS will not find it when you run a Website on IIS, it will give an error). Setting up the Home Page is mandatory, for example, if you have a Login.html page, if you want this page to display first, you must configure it as Home.

Exercise 11: Configure Hosting + Domain Free

Requirement:

Let's deploy exercise 9 to any free Hosting introduced in the class so that any place in the world can access the Website:

<https://azure.microsoft.com> (email education)

<https://somee.com>

<https://freevnn.com>

<https://www.000webhost.com>

<https://www.freehosting.com>

<https://www.awardspace.com/free-hosting>

<https://vhost.vn/hosting/free-hosting>

Instructions:

Students can find out for themselves, If using Somee.com, you can refer here:

<https://tranduythanh.com/2014/02/25/bai-44-cach-tao-webservice/>

Exercise 12: Configure NAT port for Internet Modem at home (*)

Requirement:

Learn how to NAT Port for Internet Modem at home to turn a personal computer into a machine with a Web Server that can be accessed anywhere in the world: Go to IIS, Remote Desktop...

Instructions:

- Check which company your network modem belongs to, because each company will have a different NAT port.
- Learn Dynamic DNS (<https://www.noip.com>)
- Learn the software Update Client for DynDN
- (<https://www.noip.com/download?page=win>)

➔ Note that when the configuration is successful, our computer can be illegally penetrated anywhere in the world, so we must be careful about information security. The computer we leave at home, but we can be anywhere in the world, we can Remotely access the machine, use it normally as if we were holding a computer in our hands. If you work in a small and medium-sized company, have a moderate server, and to save a lot of costs on setting up a server (there are data that cannot be ordered), one can use this solution to operate data mining in the company.

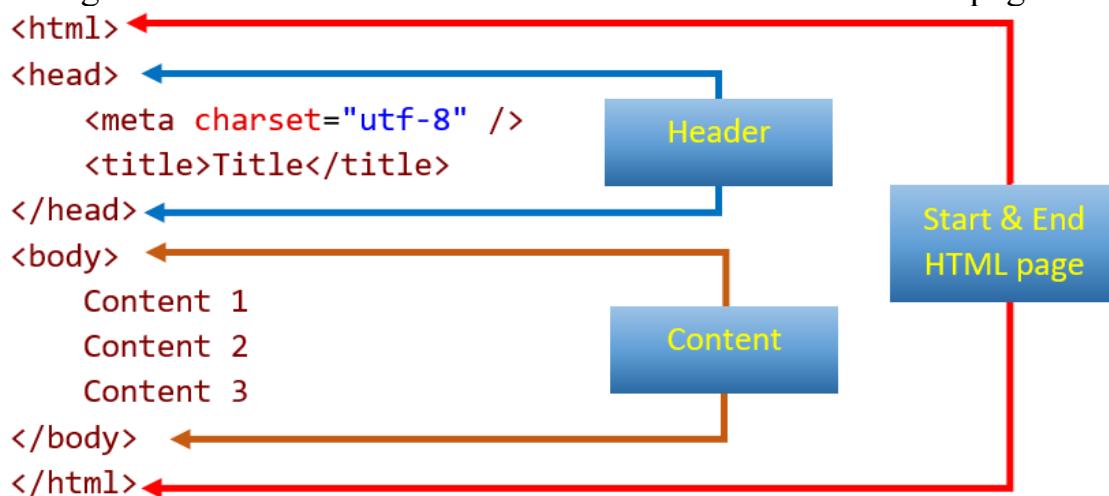
Exercise 13: HTML file structure

Requirement:

Describe the structure and meaning of the main components of an HTML Static Web Page. Explain opening and closing tags.

Instructions:

See the figure below to show the structure of an HTML Static Web page.



Exercise 14: Resume

Requirement:

Create a **Resume.html** web page, using the **<Hn>**, ****, **<HR>** , ****, **<A>** tags and the formatting tags to present the following web page:

Mary Taylor

Kemper Ave Lake View co 00517(303)6455 1012



[Objectives](#) · [Education](#) · [Employment](#) · [Other Info](#) ·

Objectives

Masters degree graduate interested in a telecommunications position in the Denver or Boulder area. Highly skilled in the use of computers, audio/video equipment, and the uplink/downlink aspects of satellite communications. Interested in positions with a strong international component. Willing to Travel.

Education

Colorado State University (1999-2001)

- Graduated May: 2001 M.A. International Telecommunications
- Grade Point Average: 3.5 overall, 3.9 in major
- Dean's List : September 1999-May 2001
- Member Phi Alpha Omega Honor Society

Saint Phillip University(1996-1999)

- Graduated May,1999. B.A International Studies
- Grade Point Average:4.0 overall,4.0 in major
- Dean's List : September 1996-May 1999
- president,Honor Key Society

Employment

*Satellite Technician(Front Range Media inc.1998-1999):*Monitored satellite uplink/downlink procedures to assure quality video transmissions. Aided technicians with transmission problems. Assisted in the assembly and maintenance of uplink facility.

Technical Assistant (Mountain View Bank 1997-1998): Managed data processing system. handled user request and discussed programming options. Managed deliver service.

Salesperson (Computer Visions 1996): Sales and customer support in computers and electronics. Managed commercial accounts in Mountain View and Crabtree locations.

Instructions:

Image file and attached data in folder Exercise14.

<https://tranduythanh.com/webmaterials/ex14.zip>

In addition, students can use the image as a background for the page.

Exercise 15: Beethoven

Requirement:

Create a Beethoven website consisting of 4 linking pages, each page will use an image to link to the next page and the page before it. Use the ****, **<HR>**, ****, **<Hn>**, **<A>** tags to display the web pages in the website, choose the background image for the pages yourself.

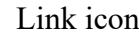


Beethoven's Ninth Symphony

The First Movement 

Sonata Form

1. Exposition
 1. Primary Area
 2. Transition
 3. Secondary Area
 4. Closing Area
2. Development
3. Recapitulation
 1. Primary Area
 2. Secondary Area
 3. Closing Area
4. Coda

 Link icon

[View the Classical Net Home Page.](#)

FirtMovement.html



Beethoven's Ninth Symphony

  The Second Movement 

Sonata Form

-  Previous page
1. Exposition
 2. Development
 3. Recapitulation

 Next page

Binary Form [Trio]

1. First Half
2. Second Half
3. Scherzo Capo
4. Coda

[View the Classical Net Home page.](#)

SecondMovement.html



Beethoven's Ninth Symphony

☞ The Third Movement ☚

Sectional Form

1. A-Section
2. B-Section
3. A-Section varied
4. B-Section
5. Interlude
6. A-Section varied
7. Coda

[View the Classical Net Home page.](#)

ThirdMovement.html



Beethoven's Ninth Symphony

☞ The Fourth Movement ☚

Sonata-Concerto Form

1. Open Ritornello
2. Exposition
 1. Horror/Recitative
 2. Joy Theme
 3. Turkish Music
3. Development
4. Recapitulation
 1. Joy Theme
 2. Awe Theme
5. Codas Nos. 1 2 3

[View the Classical Net Home page.](#)

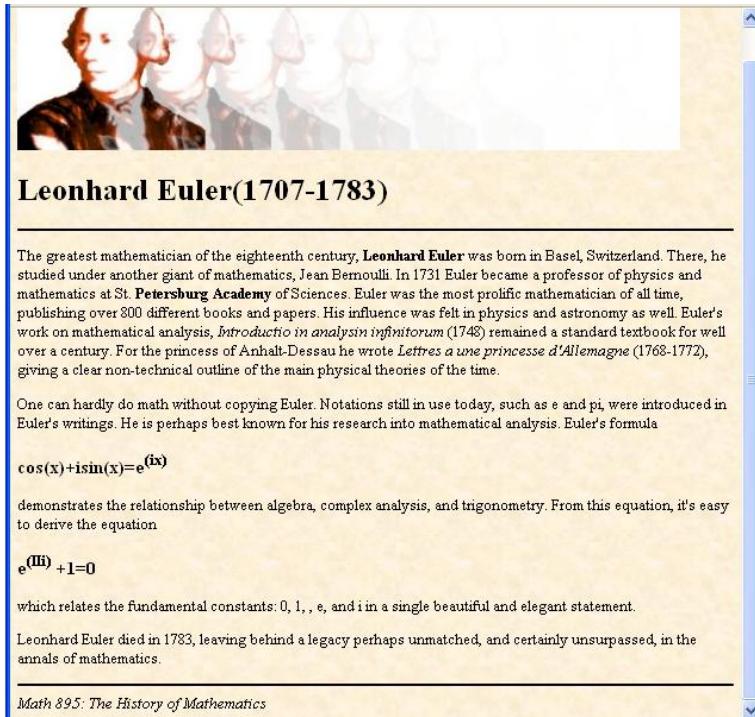
FourthMovement.html

Instructions:

Image file and attached data in folder Exercise15.

<https://tranduythanh.com/webmaterials/ex15.zip>

Students manually separate the data in the file to display it as required. In addition, students can use images as background for the page. The index finger icon finds itself online.

Exercise 16: Euler**Requirement:**Design the **Euler.html** website as shown below:

Leonhard Euler(1707-1783)

The greatest mathematician of the eighteenth century, **Leonhard Euler** was born in Basel, Switzerland. There, he studied under another giant of mathematics, Jean Bernoulli. In 1731 Euler became a professor of physics and mathematics at St. Petersburg Academy of Sciences. Euler was the most prolific mathematician of all time, publishing over 800 different books and papers. His influence was felt in physics and astronomy as well. Euler's work on mathematical analysis, *Introductio in analysin infinitorum* (1748) remained a standard textbook for well over a century. For the princess of Anhalt-Dessau he wrote *Lettres a une princesse d'Allemagne* (1768-1772), giving a clear non-technical outline of the main physical theories of the time.

One can hardly do math without copying Euler. Notations still in use today, such as e and pi, were introduced in Euler's writings. He is perhaps best known for his research into mathematical analysis. Euler's formula

$$\cos(x) + i\sin(x) = e^{ix}$$

demonstrates the relationship between algebra, complex analysis, and trigonometry. From this equation, it's easy to derive the equation

$$e^{i\pi} + 1 = 0$$

which relates the fundamental constants: 0, 1, , e, and i in a single beautiful and elegant statement.

Leonhard Euler died in 1783, leaving behind a legacy perhaps unmatched, and certainly unsurpassed, in the annals of mathematics.

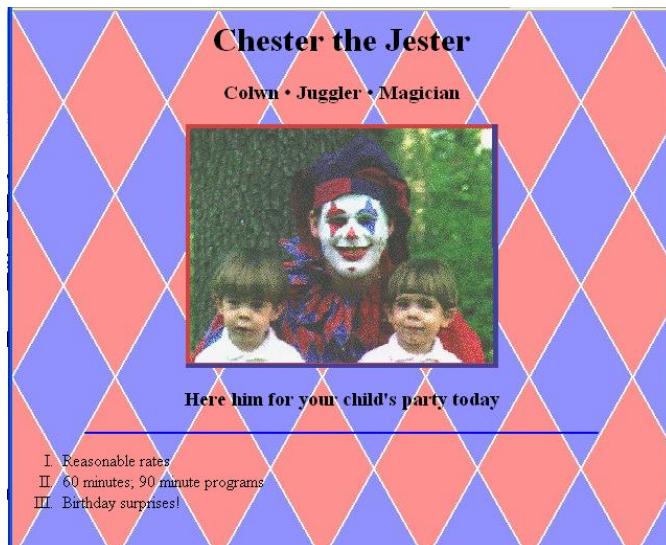
Math 895: The History of Mathematics

Instructions:

Image file and attached data in folder Exercise16.

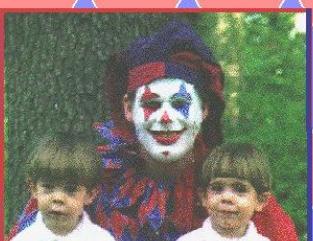
<https://tranduythanh.com/webmaterials/ex16.zip>

In addition, students can use the image as a background for the page.

Exercise 17: Chester**Requirement:**Design the **Chester.html** website as shown below:

Chester the Jester

Colwn • Juggler • Magician



Here him for your child's party today

I. Reasonable rates
II. 60 minutes, 90 minute programs
III. Birthday surprises!

Instructions:

Image file and attached data in folder Exercise17.

<https://tranduythanh.com/webmaterials/ex17.zip>

In addition, students can use the image as a background for the page.

Exercise 18: Resume (more)

Requirement:

Open the **Resume.html** page again in Exercise 14 and add the following content at the bottom of the page, then create links for the items:

- **References** → open page **Reference.html**.
- **Comments on my work** → open page **Comments.html**.
- **Go to Colorado State** → open page **www.colostate.edu**

Other Information

- [References](#)
- [Comments on my work](#)
- [Go to Colorado State](#)

Interested?

Contact Mary Taylor at mtaylor@tt.gr.csu.edu

The contents of the **Refer.html** and **Comments.html** pages are as follows:



Comments about my work

View My Resume · References

Link to Resume.html

Link to Refer.html

Lawrence Gane, Telecommunications Manager, Inc.

Mary is a highly professional technician who takes much pride in her work. She impressed me with her ability to learn the details of our sophisticated and complex hardware and software, especially given her lack of telecommunications experience when she first started with us. Mary works well in a team but also has the ability to take my suggestions and finish a project in a highly competent manner without further direction. As she closes out her work here, I find her to be an excellent and essential component in our operations. I have complete confidence that you will be very pleased with Mary's work and recommend her very highly."

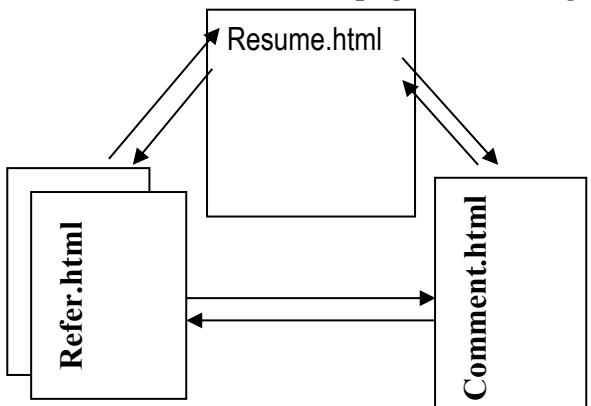
Karen Carlson, Manager, Mountain View Bank

"Mary assisted in the operations and development of a new database program we were setting up. I found Mary to be an enthusiastic and hard-working addition to our team. Mary is one of those people who gets things done and done right. She will excel in whatever she does. I think any company that hires her will be very happy that they did."

Trent Wu, Sales Manager, Computer Visions

"Mary was on our customer support staff for almost two years. During that time she never ceased to

Create links between 3 pages according to the model:



Open **Comments.html** page, create 2 more links to **Resume.html** page and **Refer.html** page:

- [View My Resume](#) link to **Resume.html**
- [References](#) link to **Refer.html**

Open **Refer.html** page, create 2 more links to **Resume.html** page and **Comment.html** page:

References
View My Resume · Comments
Lawrence Gale, Telecommunications Manager
Front Range Media Inc. 1000 Black Canyon Drive Fort Tompkins, CO 80517 (303) 555-0103
Karen Carlson, Manager
Mountain View Bank 2 North Maple St. Lake View, CO 80517 (303) 555-8792
Trent Wu, Sales Manager
Computer Visions 24 Mall Road Lake View, CO 80517 (303) 555-1313
Robert Ramirez, Prof. Electrical Engineering
Colorado State University Kleinidist Hall Fort Collins, CO 80517

Instructions:

Image file and attached data in folder Exercise18.

<https://tranduythanh.com/webmaterials/ex18.zip>

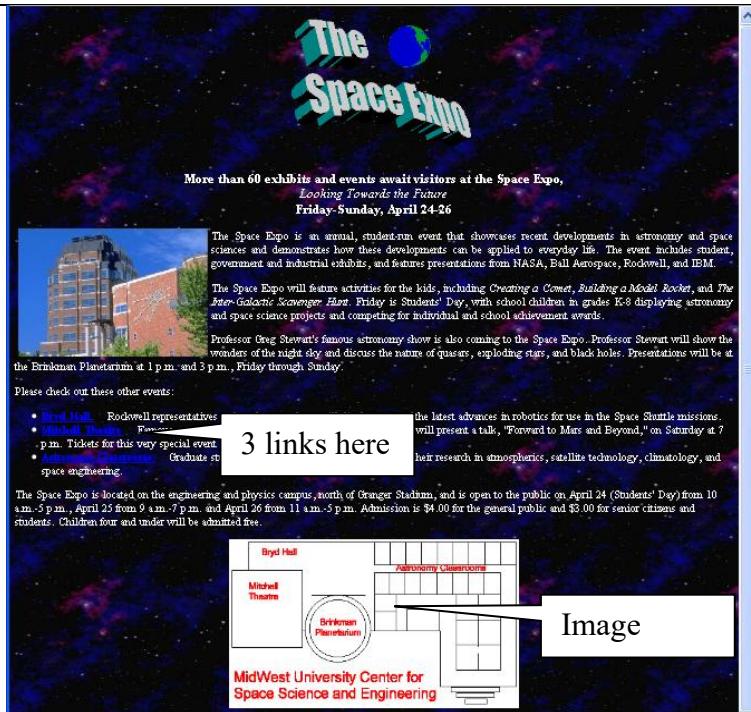
In addition, students can use images as background for the page.

Exercise 19: Website Expo

Requirement:

Create the **Expo.html** website as shown below:

- Bryd Hall (Text and Image Maps) links to **Bryd.html**
- Mitchell Theater (Text and Image Maps) link to **Mitchell.html**
- Astronomy Classrooms (Text and Image Maps) link to **Brinkman.html**



Instructions:

Image files, Bryd.html, Mitchell.html, Brinkman.html and attached data in folder Exercise 19.

<https://tranduythanh.com/webmaterials/ex19.zip>

In addition, students can use the image as a background for the page.

Exercise 20: Website Jaction

Requirement:

Create Jaction.html website as shown below:

Instructions:

Image files, Scantext.htm, PStext.htm, Printext.htm and attached data in folder Exercise 20.

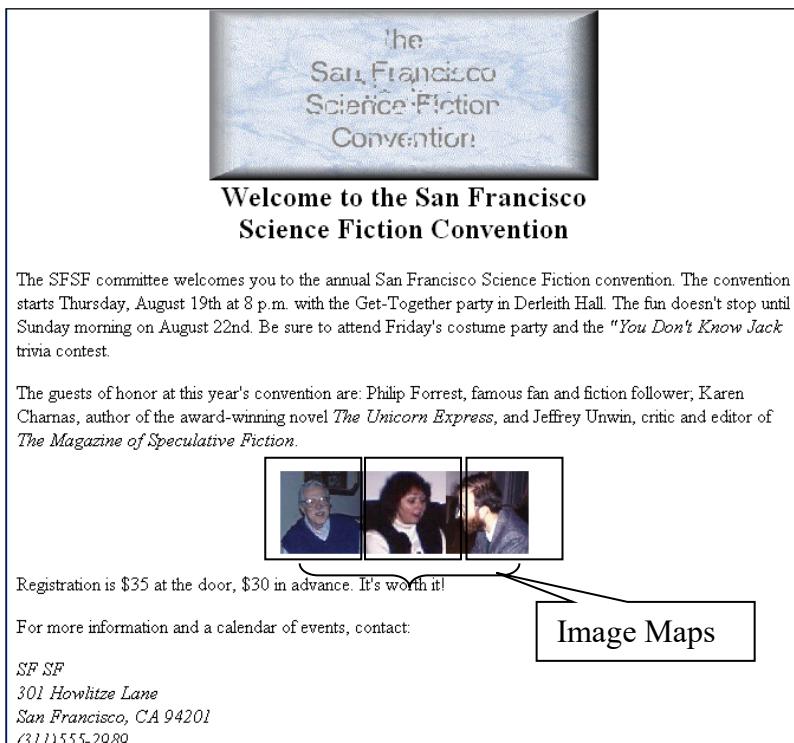
<https://tranduythanh.com/webmaterials/ex20.zip>

In addition, students can use the image as a background for the page.

Exercise 21: Website SFSF

Requirement:

Create SFSF website as shown below:



The screenshot shows a website for the San Francisco Science Fiction Convention. At the top, there's a banner with the text "the San Francisco Science Fiction Convention". Below the banner, the main heading reads "Welcome to the San Francisco Science Fiction Convention". A paragraph of text describes the convention, mentioning it starts on August 19th at 8 p.m. and includes a costume party and a trivia contest. Below this, a section lists the guests of honor: Philip Forrest, Karen Charnas, and Jeffrey Unwin. Three small portraits of these individuals are displayed in a row. Further down, there's a registration note: "Registration is \$35 at the door, \$30 in advance. It's worth it!" followed by a link to "Image Maps". At the bottom, contact information is provided: "SF SF", "301 Howlitz Lane", "San Francisco, CA 94201", and the phone number "(311)555-2989".

- Image map1: link to **Forsttxt.htm**
- Image map2: link to **Charntxt.htm**
- Image map3: link to **Unwintxt.htm**

Instructions:

Image files, Forsttxt.htm, Charntxt.htm, Unwintxt.htm and attached data in folder Exercise 21.

<https://tranduythanh.com/webmaterials/ex21.zip>

In addition, students can use the image as a background for the page.

Exercise 22: Web Menu**Requirement:**

Create a Web menu for Kelsey's Dinner as described below:

- Breakfast points to **Breakfast.html**
- Lunch points to **Lunch.html**
- Dinner points to **Dinner.html**

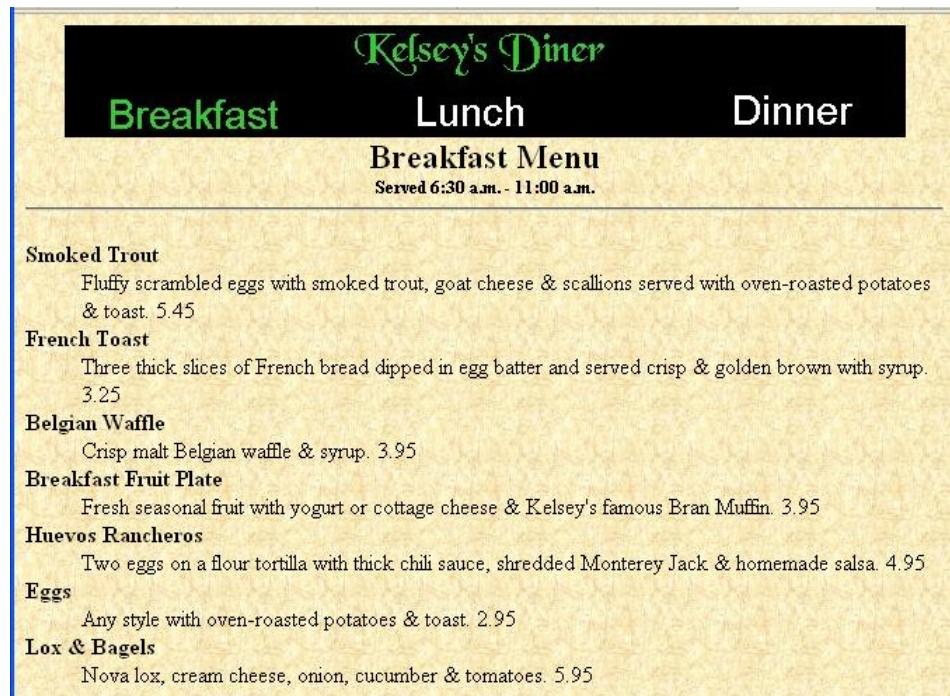
**Instructions:**

Image file and attached data in folder Exercise 22.

<https://tranduythanh.com/webmaterials/ex22.zip>

In addition, students can use the image as a background for the page.

Exercise 23: Table – Gargoyle Collection**Requirement:**

Create a **MAU.html** web page containing a Text Table using the `<pre>` tag and the spacebar key, with the interface described below.:



The Gargoyle Collection

Throughout Europe, countless gargoyles peer down from the towers and parapets of medieval cathedrals. In honor of these fascinating creations Middle Age Arts presents an exclusive line of gargoyle replicas. Choose representations from the most famous cathedrals in the world, including the popular gargoyles of Notre Dame. Select from the following list of our most popular gargoyles.

Name	Item #	Type	Finish	Price
Bacchus	48095	Wall Mount	Interior Plaster	\$95
Praying Gargoyle	48159	Garden Figure	Gothic Stone	\$125
Gargoyle	48222	Bust	Interior Plaster	\$140

Instructions:

Image file and attached data in folder Exercise 23.

<https://tranduythanh.com/webmaterials/ex23.zip>

In addition, students can use the image as a background for the page.

Exercise 24: Table – Gargoyle Products

Requirement:

Create a **MAA.html** container web page with the interface as described below:

Gargoyle Products

Throughout Europe, countless gargoyles peer down from the towers and parapets of medieval cathedrals. In honor of these fascinating creations Middle Age Arts presents an exclusive line of gargoyle replicas. Choose representations from the most famous cathedrals in the world, including the popular gargoyles of Notre Dame. Select from the following list of our most popular gargoyles.

Products in the Gargoyle Collection

Name	Item #	Type and Finish		Price
Bacchus	48059	Wall Mount	Interior Plaster	\$95
Praying Gargoyle	48159	Garden Figure	Gothic Stone	\$125
Gargoyle Judge	48222	Bust	Interior Plaster	\$140
	48223	Bust	Gothic Stone	\$155

Instructions:

Image file and attached data in folder Exercise 24.

<https://tranduythanh.com/webmaterials/ex24.zip>

In addition, students can use the image as a background for the page.

Exercise 25: Table Gargoyle (*)**Requirement:**

Design the website The **Gargoyle.html**, using nested **<Table>** and learned tags: **<A>**, ****, **<Hn>**, **** as described below:

 Middle Age Arts	 <h1>THE GARGOYLE COLLECTION</h1> <p>From the President</p> <p>This month Middle Age Arts introduces the Gargoyle Collection. I'm really excited about this new set of classical figures.</p> <p>The collection contains faithful reproductions of gargoyles from some of the famous cathedrals of Europe, including Notre Dame, Rheims and Warwick Castle. All reproductions are done to exacting and loving detail.</p> <p>The collection also contains original works by noted artists such as Susan Bedford and Antonio Salvari. Our expert artisans have produced some wonderful and whimsical works, perfectly suited for home or garden use.</p> <p>Don't delay, order your gargoyle today.</p> <p>What can you do with a gargoyle?</p> <ul style="list-style-type: none">• Bird baths• Bookends• Paperweights• Pen holders• Wind chimes <p>Go to our catalog for more ideas!</p> <p>Profile of the Artist</p> <p>This month's artist is Michael Cassini. Michael has been a professional sculptor for ten years. He has won numerous awards, including the prestigious <i>Reichsman Cup</i> and an Award of Merit at the 1997 <i>Tuscany Arts Competition</i>.</p> <p>Michael specializes in recreations of gargoyles from European cathedrals. You'll</p>	
---	---	--

Instructions:

Image file and attached data in folder Exercise 25.

<https://tranduythanh.com/webmaterials/ex25.zip>

In addition, students can use the image as a background for the page.

Exercise 26: Table Dunston**Requirement:**

Create a **Dunston.html** site, using a nested <table>. As described below:

<p>Welcome to the Dunston Retreat Center. Whether you are planning to attend one of our many conferences or embarking on a private retreat, we're sure that you will enjoy your stay.</p> <p>Located in the northern woods of Wisconsin, the Dunston Retreat Center provides comfortable and attractive accommodations while you enjoy the rustic setting available just outside your door. The Retreat Center has 32 beds, large meeting rooms, a chapel, and kitchen facilities. If you want to get out, there are ample opportunities for hiking, canoeing and horseback riding in the surrounding area.</p> <p>Throughout the year the center staff conducts retreats to accommodate the needs of various groups. We offer retreats for men, for women, and for couples. Please call about special needs retreats.</p> <p>If you prefer, an individually</p>	  <p>the DUNSTON Retreat Center</p>	<p>Next week at the Dunston Retreat Center</p> <p>The annual meeting of the Midwest Marriage Encounter occurs at the Dunston Retreat Center, June 11-13. Registration is \$50 and includes room and board. A boating trip on Lake Superior is planned for Saturday night (\$10 fee).</p> <p>Contact Maury Taylor at 555-2381 for reservation information.</p> <p>Upcoming Events</p> <p>June 11-13 Marriage Encounter</p> <p>June 18-20 Recovering Alcoholics</p> <p>June 25-27 Spirituality Workshop</p>	<p>A letter from one of our guests</p> <p>I'm writing to tell you how much I enjoyed my retreat at Dunston. I came to your center haggard and worn out from a long illness and job difficulties. I left totally refreshed. I especially want to thank Father Thomas Holloway for his support.</p> <p>I've enthusiastically told all of my friends about the wonderful place you have. Some of us are hoping to organize a group retreat. Rest assured that you'll see me again. Going to Dunston will become a nearby event for me.</p>
--	---	--	---

Instructions:

Image file and attached data in folder Exercise 26.

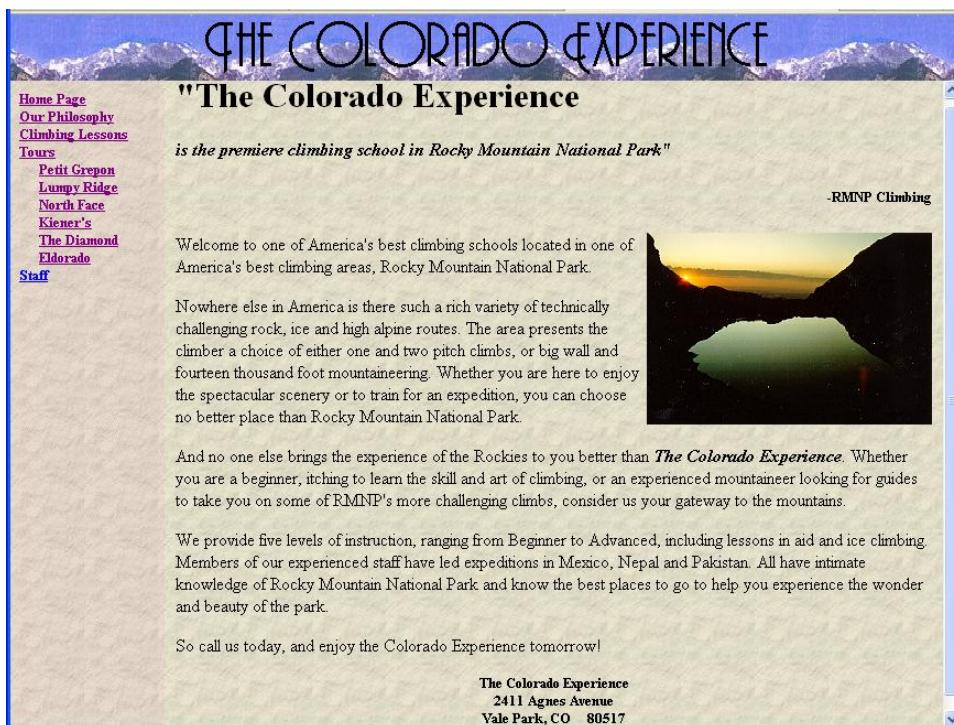
<https://tranduythanh.com/webmaterials/ex26.zip>

In addition, students can use the image as a background for the page.

Exercise 27: Frame**Requirement:**

Create a **Colorado.html** website using a frameset of the form:

Logo.html	
Link.html	Homepage.html Our Philosophy.html Climbing Lessons.html Petit Grepon.html Lumpy Ridge.html North Face.html Kiener's.html The Diamond.html Eldorado.html



Instructions:

Image file and attached data in folder Exercise 27.

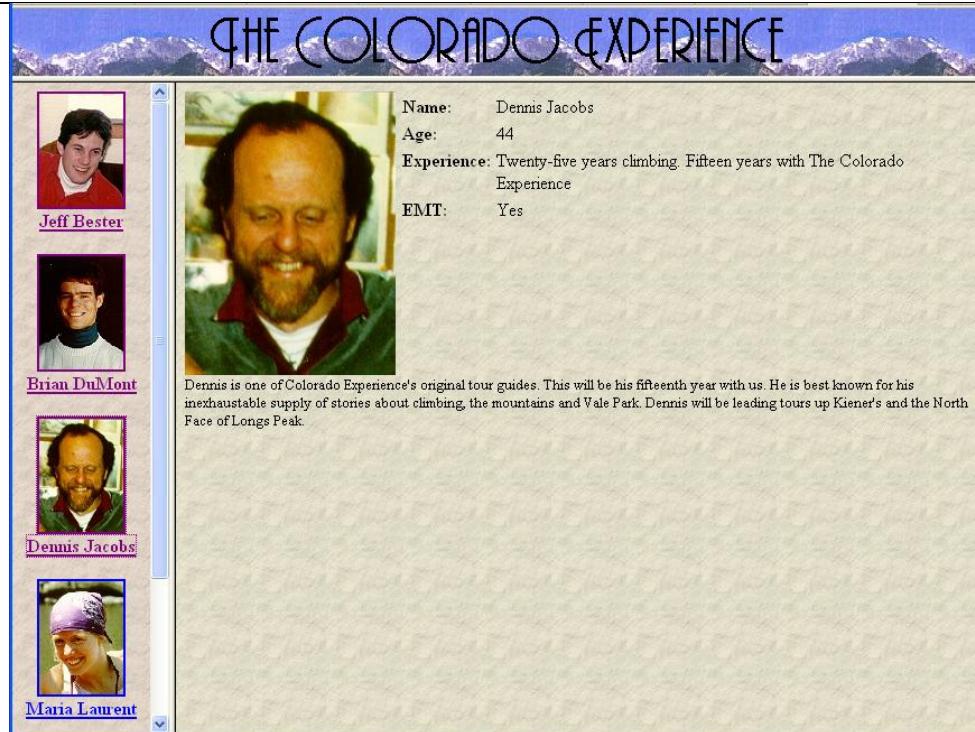
<https://tranduythanh.com/webmaterials/ex27.zip>

In addition, students can use the image as a background for the page.

Exercise 28: Frameset

Requirement:

Design a website using a frameset with the interface described below:



Instructions:

Image file and attached data in folder Exercise 28.

<https://tranduythanh.com/webmaterials/ex28.zip>

In addition, students can use the image as a background for the page.

Exercise 29: Frameset – Image maps

Requirement:

Website design using Frameset and image maps, Frameset has the form

Logo	4 pages of links
Image Maps	

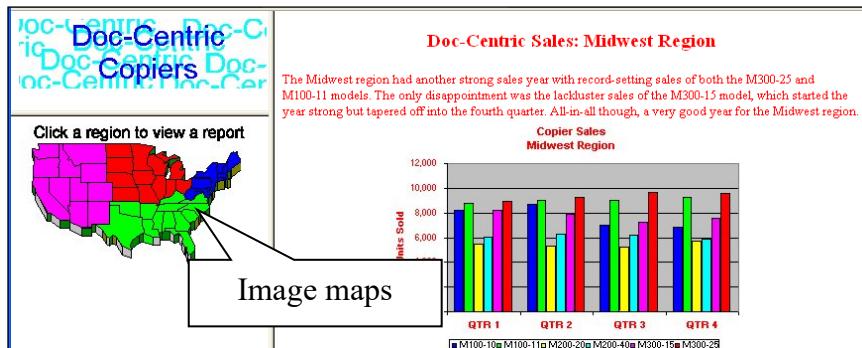


Image maps include 4 areas with 4 colors, when clicking on each area will link to a page with the corresponding color in the image maps.

Instructions:

Image file and attached data in folder Exercise 29.

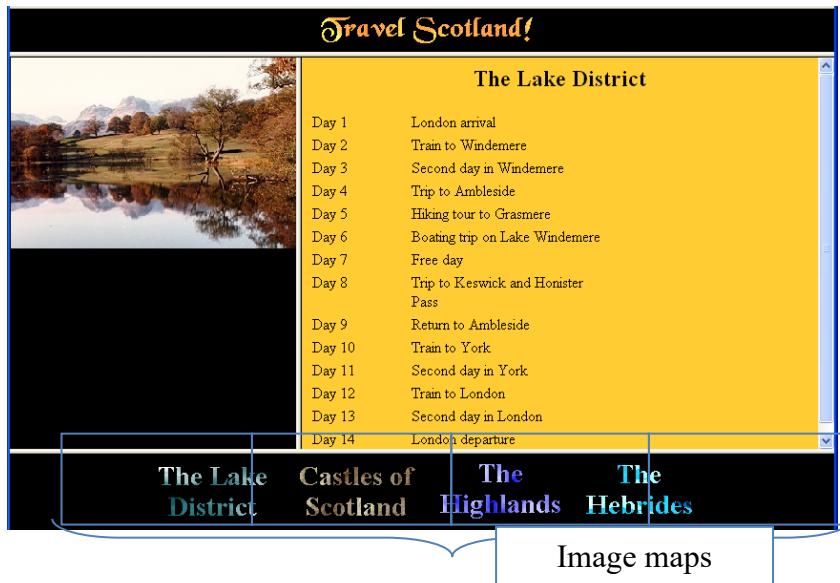
<https://tranduythanh.com/webmaterials/ex29.zip>

In addition, students can use the image as a background for the page.

Exercise 30: Frameset – Image maps

Requirement:

Design **Travel Scotland.html** website, using Frameset and image maps. Interface as described below:



Instructions:

Image file and attached data in folder Exercise 30.

<https://tranduythanh.com/webmaterials/ex30.zip>

In addition, students can use the image as a background for the page.

Exercise 31: Frameset (*)

Requirement:

Design Sonnet website using Frameset. Graphic User Interface as shown below:

English 220 <i>Sixteenth and Seventeenth Century Poetry</i>	
Authors John Donne Sonnet#1 Sonnet#5 Sonnet#10 William Shakespeare Edmund Spenser	Sonnet 10 Death, be not proud, though some have called thee Mighty and dreadful, for thou art not so; For those whom thou think'st thou dost overthrow Die not, poor Death, not yet canst thou kill me. From rest and sleep, which but thy pictures be, Must pleasure; then from thee much more must flow, And soonest our best men with thee do go, Rest of their bones and soul's delivery. Thou art slave to fate, chance, kings, and desperate men, And dost with poison, war, and sickness dwell, And poppy or charms can make us sleep as well And better than thy stroke; why swell'st thou then? One short sleep past, we wake eternally And death shall be no more; Death thou shalt die. <i>John Donne</i>

Instructions:

Image file and attached data in folder Exercise 31.

<https://tranduythanh.com/webmaterials/ex31.zip>

In addition, students can use the image as a background for the page.

Exercise 32:Marquee, Multimedia**Requirement:**

Use the Marquee to let the words "Faculty of Information Systems" run left and right on the Web screen. Insert a **song** as **background** music for this page.

Instructions:

Watch the Lesson Slide about Marquee and Multimedia.

Module 3: Cascading Style Sheets (CSS)

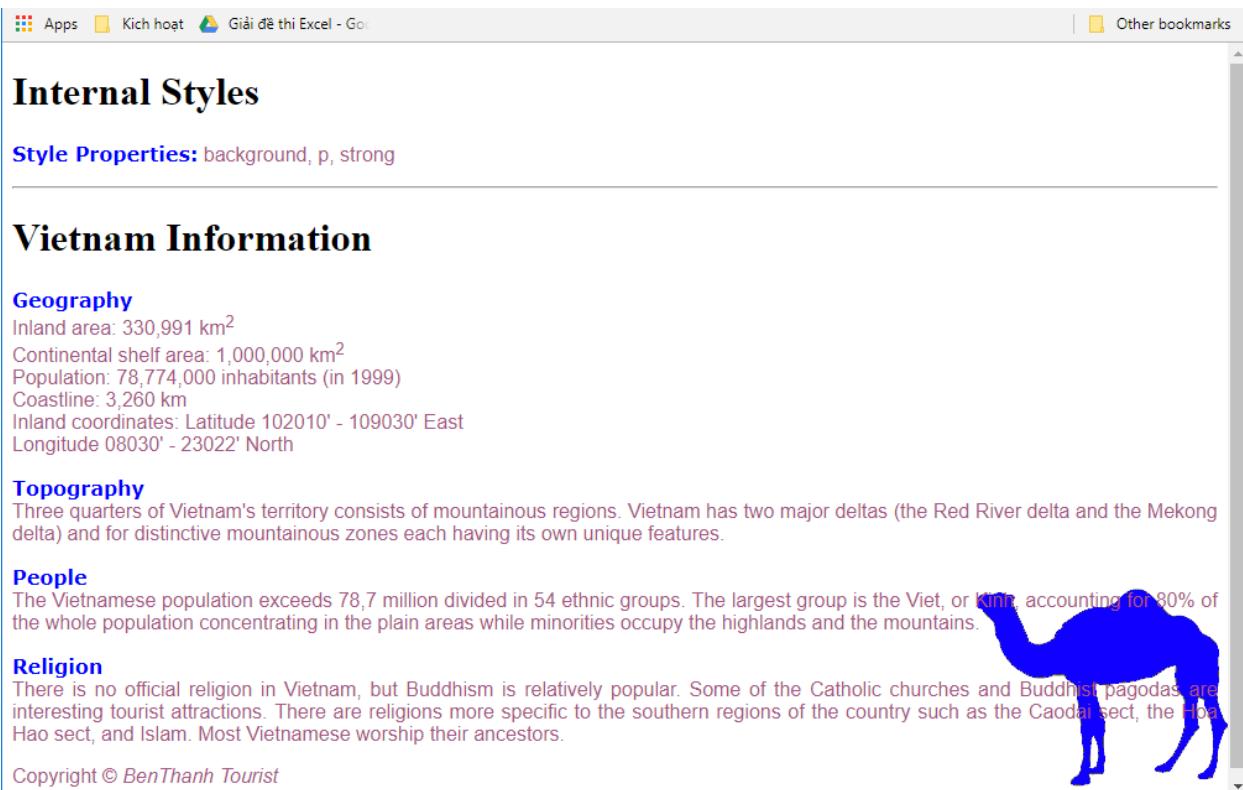
Practical knowledge content:

- + Understand the Concept of DHTML
- + Understand what CSS means, how it works, CSS types and rules for creating CSS in HTML
- + Know the details of commonly used elements in CSS
- + Create box model
- + Understand the concepts of Margin, Padding
- + How to use Display, Position, Floating

Exercise 33: Internal Style

Requirement:

Use Internal Style to design the following Website:



The screenshot shows a web browser window with the following content:

- Internal Styles**
- Style Properties:** background, p, strong
- ## Vietnam Information
- Geography**
 - Inland area: 330,991 km²
 - Continental shelf area: 1,000,000 km²
 - Population: 78,774,000 inhabitants (in 1999)
 - Coastline: 3,260 km
 - Inland coordinates: Latitude 102010' - 109030' East
Longitude 08030' - 23022' North
- Topography**

Three quarters of Vietnam's territory consists of mountainous regions. Vietnam has two major deltas (the Red River delta and the Mekong delta) and four distinctive mountainous zones each having its own unique features.
- People**

The Vietnamese population exceeds 78.7 million divided in 54 ethnic groups. The largest group is the Viet, or Kinh, accounting for 80% of the whole population concentrating in the plain areas while minorities occupy the highlands and the mountains.
- Religion**

There is no official religion in Vietnam, but Buddhism is relatively popular. Some of the Catholic churches and Buddhist pagodas are interesting tourist attractions. There are religions more specific to the southern regions of the country such as the Caodaism, the Hoa Hao sect, and Islam. Most Vietnamese worship their ancestors.
- Copyright © BenThanh Tourist



Instructions:

Image file and attached data in folder Exercise 33

<https://tranduythanh.com/webmaterials/ex33.zip>

```
<style type = "text/css">
    body{
        background-image: url('images/camel.gif');
        background-position: right bottom;
        background-repeat: no-repeat;
        background-attachment: fixed;
    }
    p{
        font-size: 12pt;
        color: #aa5588;
        text-align: justify;
        font-family: arial, sans-serif;
    }
    strong{
        color:#0000FF;
        font-family: verdana;
    }
</style>
```

Exercise 34: Inline Style

Requirement:

Use Inline Style to design the Website below:



The screenshot shows a website with the following structure:

- Inline Styles**: The title of the page.
- Style Properties:** text, font, background, margin, padding
- Vietnam Information**: A section containing:
 - Geography**:
 - Inland area: 330,991 km²
 - Continental shelf area: 1,000,000 km²
 - Population: 78,774,000 inhabitants (in 1999)
 - Coastline: 3,260 km
 - Inland coordinates: Latitude 10°20' - 10°9'30" East
 - Longitude 08°03' - 23°02' North
 - Topography**:
 - Three quarters of Vietnam's territory consists of mountainous regions. Vietnam has two major deltas (the Red River delta and the Mekong delta) and four distinctive mountainous zones each having its own unique features.
 - People**:
 - The Vietnamese population exceeds 78.7 million divided in 54 ethnic groups. The largest group is the Viet, or Kinh, accounting for 80% of the whole population, concentrating in the plain areas while minorities occupy the highlands and the mountains.
 - Religion**:
 - There is no official religion in Vietnam, but Buddhism is relatively popular. Some of the Catholic churches and Buddhist pagodas are interesting tourist attractions. There are religions more specific to the southern regions of the country such as the Caodaï sect, the Hoa Hao sect, and Islam. Most Vietnamese worship their ancestors.

Copyright © BenThanh Tourist

Instructions:

Image file and attached data in folder Exercise 34.

<https://tranduythanh.com/webmaterials/ex34.zip>

```
<h1>Inline Styles</h1>
<p><strong>Style Properties:</strong> text, font, background, margin, padding</p>
<hr />
<h1 style="color: #AAAAAA">Vietnam Information</h1>
<p style="font-family: verdana; font-size=14pt;">
<b>Geography</b><br />
```

```
<p style="text-align: left; font-size: 14pt; background-color: #CCCCCC; padding-left: 1cm">
<b style="color: #0000FF">Topography</b><br />
```

```
<p style="margin-left: 2cm; background-image:url('images/camel.gif')">
<b style="color: #FF00FF">People</b><br />
```

```
<p style="margin-right:1cm; margin-left:1cm; text-align: justify; background-color: #CCCCCC">
<b style="color: #00FFFF; text-decoration: underline">Religion</b><br />
```

Exercise 35: External Style

Requirement:

Use External Style to design the following Website:

External Styles

Practical content

- I. Part 1: XHTML and CSS
 - 1. XHTML : Basic tags, Lists, Links
 - Exercise 01 ([01-template.htm](#))
 - Exercise 02 ([02-Course Details.htm](#))
 - 2. XHTML : Images, Tables
 - Exercise 01
 - Exercise 02
 - Exercise 03
 - Exercise 04
 - 3. CSS :
 - Exercise 01
 - Exercise 02
 - Exercise 03
 - Exercise 04
- II. Part 2: Basic of Javascript Programming
 - 5. Javascript – Introduction Script
 - Exercise 01
 - 6. Javascript – Condition Controls – p1
 - Exercise 01
 - 7. Javascript – Condition Controls – p2
 - Exercise 01
 - 8. Javascript – Functions
 - Exercise 01
 - 9. Javascript – Array
 - 10. Javascript – Class – Object
- III. Part 3: DHTML
 - 11. DHTML – Object Model và Collections
 - 12. DHTML – Events Model
 - 13. DHTML – Filters and Transitions
 - 14. DHTML – Data Binding

Copyright © 2023 - 2024



Instructions:

Image file and attached data in folder Exercise 35.

<https://tranduythanh.com/webmaterials/ex35.zip>

Create a file named **mainstyle.css**, with the following code:

```
body { background-image: url('images/camel.gif');  
       background-position: right bottom;  
       background-repeat: no-repeat;  
       background-attachment: fixed;  
       }  
p { font-size: 12pt;  
    color: #aa5588;  
    text-align: justify;  
    font-family: arial, sans-serif;  
    }  
ol {list-style-type: upper-roman;  
   }  
ol ol{list-style-type: decimal;  
      }  
ol ol ul{  
           list-style-type: circle;  
           }  
.list{  
       font-family:verdana;  
   }  
a{  
   text-decoration: none  
}  
a:hover {  
   text-decoration: underline;  
   color: red;  
   background-color: #ccffcc  
}
```

Exercise 36: Box Menu

Requirement:

Design the **part1.html** page containing the menu box as shown below, using Internal CSS:



Instructions:

Image file and attached data in folder Exercise 36

<https://tranduythanh.com/webmaterials/ex36.zip>

Create a file named mainstyle.css, with the following code:

```
h3 {  
height:50px;  
width:100%;  
background:url("images/h3.png") no-repeat 0 100%;  
margin : 0;  
padding : 0;  
}  
ul  
{  
margin : 0;  
padding : 10px 10px 25px 45px;  
background:url("images/ul.png") no-repeat 0 100%;  
list-style-image:url("images/li.png");  
}  
/* unvisited link */  
a:link {  
color: red;  
}  
/* visited link */  
a:visited {  
color: green;  
}  
/* mouse over link */  
a:hover {  
color: hotpink;  
padding-left:10px;  
}  
/* selected link */  
a:active {  
color: blue;  
}
```

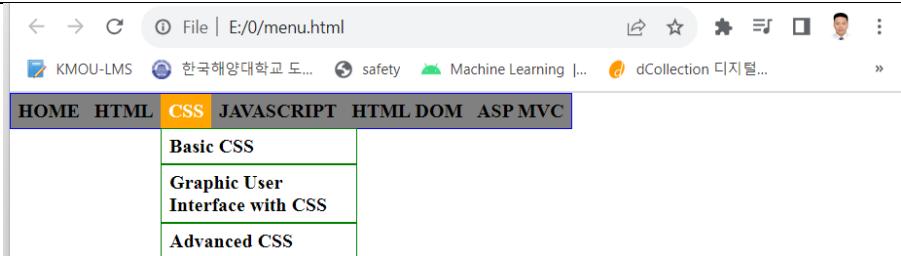
Exercise 37: Menu for Website

Requirement:

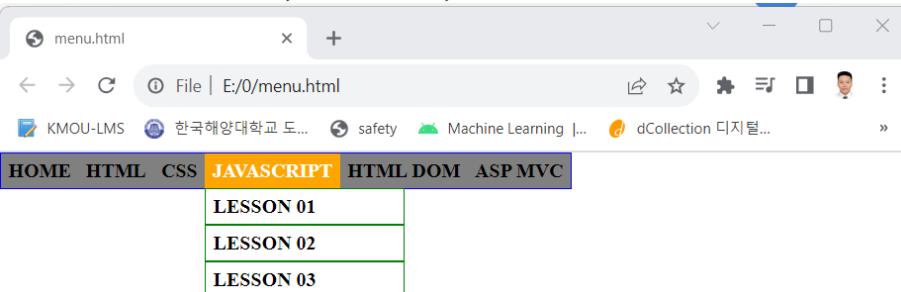
Design the **home.html** page, using external CSS as shown below:

Main menu: Home, HTML, CSS, JAVASCRIPT, HTML DOM, ASP

CSS Menu: Basic CSS, Layout with CSS, Advanced CSS



Menu JAVASCRIPT: Lesson 01, Lesson 02, Lesson 03



Instructions:

Image file and attached data in folder Exercise 37.

<https://tranduythanh.com/webmaterials/ex37.zip>

Create a file named **mainstyle.css**, with the following code:

```
*{
    margin:0;
    padding:0;
}
#container
{
    border:1px solid blue;
    background:gray;
    float:left;
    top: 60px;
    text-indent:0px;
}
#container ul {
    float:left;
    list-style:none
}
#container ul li{
    position:relative;
    float:left;
}
#container ul li a
{
    display:block;
    color:black;
    font-weight:bold;
    text-decoration:none;
    padding:.3em 6px;
}
#container li a:hover
{
    color:white;
}
```

```
background:orange;  
}  
#container li ul  
{position:absolute;  
display:none;  
width:10em  
}  
#container li:hover ul {  
display:block;  
}  
#container ul li ul li{  
width:100%;  
border:1px solid green  
}
```

Exercise 38: Four Seasons

Requirement:

Design **four-seasons.html** page, using Internal CSS as shown below.

SPRING

In the days of December, when heaven and earth are bustling in the love song of the season, we often walk together through the crowded streets of Tet holiday. The street these days is not as shabby as when the new winter comes, the street is also fresh and colorful in bright colors to wait for spring to come.

SUMMER

Summer rain comes and goes suddenly bringing cool, clear air to erase the burning summer sun. Memories flood back. The first rain of the season brings bountiful crops, but sometimes takes away the rice fields of the austere farmers.

AUTUMN

When autumn comes, the gentle warmth of autumn will gradually replace the sweltering summer sun. The coming of autumn is not only a transformation of nature, but it also brings with it many changes of the human soul, a new look, a new emotion and possibly a new beginning.

WINTER

Winter is the season suitable for late love. Season of mistakes and worries. The season when myrtle stands hard in the cold rain but cannot bloom. It is also the season to cherish the buds. Spring begins with the cold to numb from the end of winter.

Instructions:

Create a Tag Style to format some attributes for the p tag

```
width: 45%;  
margin-top:...;  
margin-left:...;  
float:left;
```

Enter data for paragraph 1 normally at the end of the paragraph press Enter to see the result. Similarly enter for the next paragraph.

Create a formatting class for the title

```
font-size: ...;  
font-weight: ...;  
color: #00F;
```

Create a unique background color format ID for Four seasons

```
background-color:...;  
color:...;
```

Image file and attached data in folder Exercise 38.

<https://tranduythanh.com/webmaterials/ex38.zip>

Exercise 39: Table with external CSS

Requirement:

Design the **fantastable.html** page as shown below, using external CSS:

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Berglunds snabbköp	Christina Berglund	Sweden
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Königlich Essen	Philip Cramer	Germany
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy
North/South	Simon Crowther	UK
Paris spécialités	Marie Bertrand	France

Instructions:

```
#customers {  
font-family:....;  
width:100%;  
border-collapse:collapse;  
}  
#customers td, #customers th  
{  
font-size:....;  
border:1px solid #98bf21;  
padding:3px 7px 2px 7px;  
}  
#customers th  
{  
font-size:1.1em;  
text-align:left;  
padding-top:5px;  
padding-bottom:4px;  
background-color:#A7C942;  
color:#ffffff;  
}  
#customers tr.alt td  
{  
Color:...;  
background-color:...;  
}
```

Exercise 40: Table with external CSS

Requirement:

Design the **tablecss.html** page as shown below, using external CSS:

Name	Phone	E-Mail
Catherine Adler Library Director	555-3100	
Michael Li Head of Adult Services	555-3145	
Kate Howard Head of Technical Services	555-4389	
Robert Hope Head of Children's Services	555-7811	
Wayne Lewis Circulation Services Supervisor	555-9001	
Bill Forth Interlibrary Loan	555-9391	

Instructions:

padding:...

float:...

margin-bottom:...

margin-left:...

border: ...

Exercise 41: Vietnam Airline Website – external CSS

Requirement:

Design **vnairlines.html** page as shown below, Using External CSS:

Instructions:

Image file and attached data in folder Exercise 41.

<https://tranduythanh.com/webmaterials/ex41.zip>

In addition, students can use the image as a background for the page.

Exercise 42: Maxwell Scientific

Requirement:

Use style sheet to design website with Layout similar to illustration:



The screenshot shows the homepage of the Maxwell Scientific website. At the top, there's a navigation bar with a logo featuring an apple and the text "Maxwell Scientific school science supplies and more". Below the logo, the main menu includes links for Astronomy, Chemistry, Electronics, Engineering, and Physics. The main content area features a large heading "Astronomy" in orange. Below it, a paragraph describes the range of astronomical products available. A section titled "Featured Astronomical Products" lists various items with descriptions and prices. To the right, a sidebar has a yellow header "Run the Messier Marathon" with a small image of a nebula. It explains the annual event where amateur astronomers observe Messier objects. Another sidebar on the right discusses the history of Charles Messier and the irony that he avoided seeing his own objects. At the bottom, there's a section for customer comments and a footer with contact information for Maxwell Scientific.

Instructions:

- Data and images in folder Exercise 42.

<https://tranduythanh.com/webmaterials/ex42.zip>

– style sheet file:

```
BODY {  
    color:green;  
    background: white url(Draft.jpg) no-repeat fixed center center  
}  
H1, H2, H3, H4, H5, H6 {  
    font-family: Arial, Helvetica, sans-serif  
}  
ADDRESS {  
    font-size: 0.9em;  
    font-style:normal;  
    text-align:center;  
    text-transform:uppercase  
}  
BLOCKQUOTE{  
    background-color:silver  
}  
UL {list-style:circle url(Apple.jpg) outside}  
UL B {  
    color:rgb(155,0,0)  
}  
A {  
    font-size: 0.9em;  
    color:green  
}  
A:hover {  
    color:red;  
    text-transform:uppercase;  
    font-weight:bold  
}  
.Special {  
    color: rgb(153,102,6);  
    font-weight:bold  
}  
DIV.Article {  
    padding: 0.5em;  
    border-style: solid;  
    border-width: 2px;  
    background-color: rgb(252,221,163);  
    width: 250px;  
    float:right  
}
```

Exercise 43: StuffShop

Requirement:

Use the style sheet to design the **StuffShop** website as shown below.

The screenshot shows a dark-themed website for "THE STUFF SHOP". On the left, there is a vertical sidebar with a yellow border containing eight categories: Antiques, Books, Clothes, Electronics, Furniture, Jewelry, Music and Videos, and Sporting Goods. To the right, the main content area features the shop's logo "THE STUFF SHOP" in large white letters. Below the logo, a sub-headline reads "The Stuff Shop is your online home for the buying, selling, and trading of used merchandise and unique collectibles." A call-to-action "Click a link on the left to browse the store." is present. Three small thumbnail images are displayed: a red bicycle, a computer monitor, and a pair of gloves.

Instructions:

- Data and images in folder Exercise 43.

<https://tranduythanh.com/webmaterials/ex43.zip>

Exercise 44: M.Lee's

Requirement:

Use the style sheet to design M.Lee's website as shown below:

The screenshot displays a website template for "Master Lee's Tae Kwon Do". The header features a large image of a person performing a high kick. The title "TAE KWON DO" is prominently displayed in gold letters. Below the title, the text "Master Lee's" is written in a smaller, stylized font. A green sidebar on the right lists services: "30 Years of Experience", "Day and Evening Classes", "Group and Private Lessons", "Family Rates and Classes", "Children's Classes", and "Radio kick Boxing". The main content area contains a paragraph about the benefits of Tae Kwon Do and a section for children's classes. At the bottom, contact information is provided: "MASTER LEE'S TAE KWON DO" and "211 OAKVIEW LANE GREENDALE, IL 60111 (414) 555-2891".

Instructions:

Image file and attached data in folder Exercise 44.

<https://tranduythanh.com/webmaterials/ex44.zip>

Exercise 45: ScrapBooks

Requirement:

Use the style sheet to design the **ScrapBooks** website as shown below:

The website has a header with the text "ONLINE SCRAPBOOKS". The main content area includes a sidebar with links to various scrapbooking resources. The central content area contains sections about getting started, preserving memories, and basic materials.

Instructions:

Image file and attached data in folder Exercise 45.

<https://tranduythanh.com/webmaterials/ex45.zip>

Exercise 46: Mount Rainier News

Requirement:

Use a style sheet to design the website as shown below, students design it themselves:

The website has a header with the text "Mount Rainier News". The main content area includes a weather forecast, a news article about the Autumn Folk Festival, and another news article about visitors preparing for MRIM. The sidebar contains links to other web pages related to Mount Rainier.

Instructions:

Image file and attached data in folder Exercise 46.

<https://tranduythanh.com/webmaterials/ex46.zip>

Exercise 47: Table with Style-trigger

Requirement:

Use a style sheet to design the website as shown below, students design it themselves:

#	Student ID	Student Name
1	123456	Albert Einstein
2	321232	Niels Bohr
3	987544	Stephen Hawking
4	359687	Isaac Newton
5	574878	Nikola Tesla

Designed by John

- requires separating the structure of the table into 3 distinct parts: thead, tbody, tfoot
- thead is the title row
- tbody is 5 rows of data
- tfoot is the last row (footer)
- CSS format as above.
- Also note that the odd line is colored whitesmoke, the even line is colored pink (and must be automatically colored, when a new line is added it must automatically recognize which is even and odd lines to fill the background). Move the mouse to any line, that line will have a yellow background and the mouse pointer will look like an index finger.

Instructions:

Table structure Students handle themselves, style structure (use internal or external style to do).

```

<style type="text/css">
    thead, tfoot
    {
        background-color:blue;
        color:white;
    }
    tbody tr:nth-child(2n+1)
    {
        background-color:whitesmoke
    }
    tbody tr:nth-child(2n) {
        background-color: pink
    }
    tbody tr:hover
    {
        background-color:yellow;
        cursor:pointer
    }
</style>

```

Module 4: Form and Controls

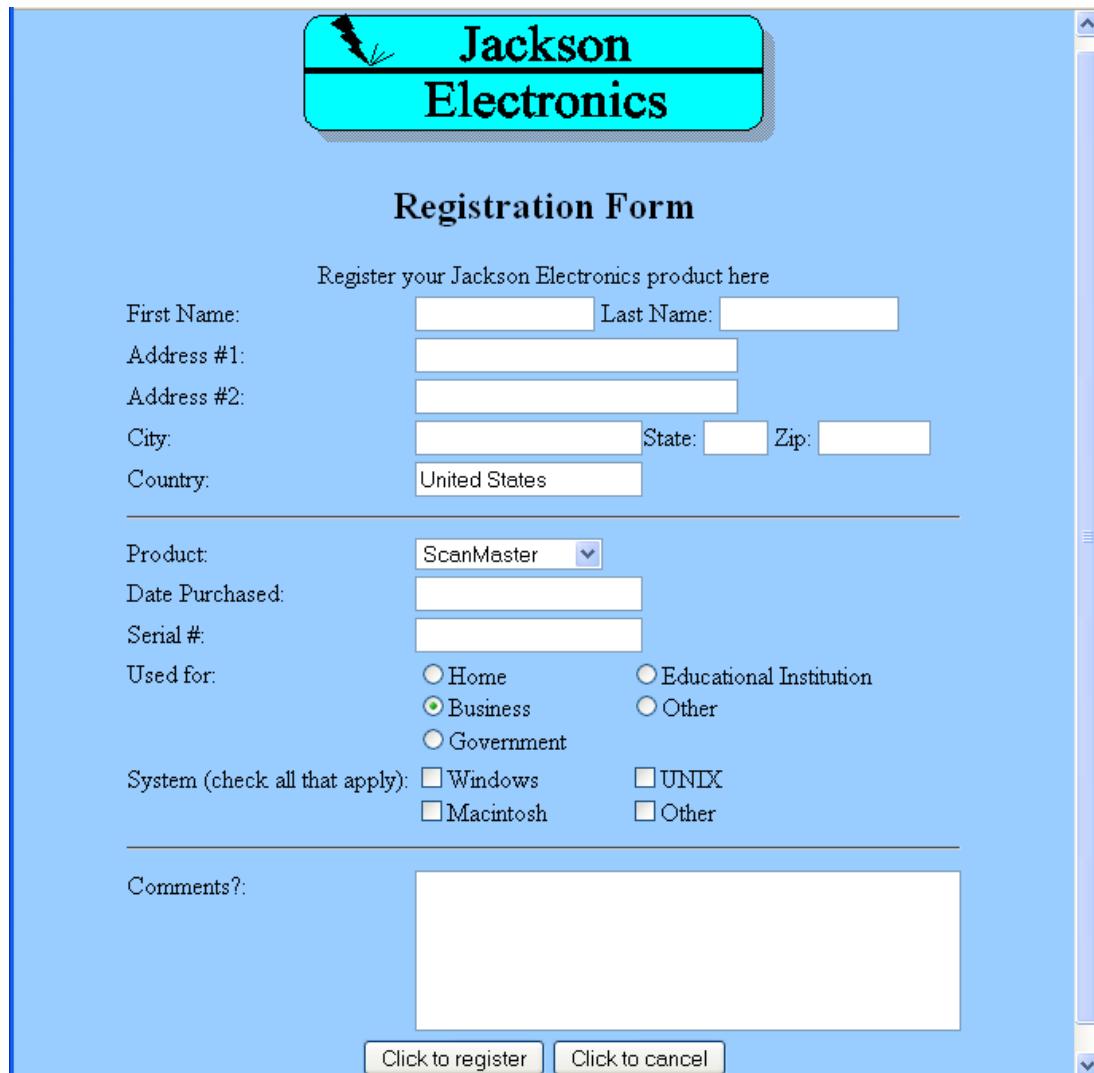
Practical knowledge content:

- + Understand the meaning and function of Form
- + Distinguish and practice GET/POST/PUT/DELETE methods
- + Understand and use controls on Form: Label, Textbox, Button, Combo, ListBox, TextArea

Exercise 48: Register

Requirement:

Create **Register.html** page, Graphic User Interface as described below:



Jackson Electronics

Registration Form

Register your Jackson Electronics product here

First Name: Last Name:
Address #1:
Address #2:
City: State: Zip:
Country:

Product:

Date Purchased:

Serial #:

Used for:

Home Educational Institution
 Business Other
 Government

System (check all that apply):
 Windows UNIX
 Macintosh Other

Comments?:

Click to register ➔ alert for Registration

Click to cancel ➔ Reset data on Form

Instructions:

Image file and attached data in folder Exercise 48.

<https://tranduythanh.com/webmaterials/ex48.zip>

In addition, students can use the image as a background for the page.

Exercise 49: Online Classifield

Requirement:

Design the **Online Classifield** form page as required as below:

Online Classifieds Search Form

1) Search for a classified in the following sections:

Employment Personal
 For Sale Miscellaneous
 Housing All of the above

2) Search the following publications:

Midwest times Modern News Employment Today
 Great Lakes Classifieds Middleton Daily Cashtown Daily News

3) From to to .

4) Enter a few keywords to describe the classified.

5) Click one of the options below:

  
Search **Help** **Cancel**

Simulation:

Search → Search simulation

Help → displays 1 help page (Student optional)

Cancel → clear data on Form

Instructions:

Image file and attached data in folder Exercise 49.

<https://tranduythanh.com/webmaterials/ex49.zip>

In addition, students can use the image as a background for the page.

Exercise 50: Travel Expense Report**Requirement:**

Design the form page as shown below:



The screenshot shows a web-based travel expense report form. At the top center is a logo for "DeLong Enterprises". Below it, the title "Travel Expense Report" is displayed. The form consists of several input fields and a table for itemizing expenses.

1) First Name: Last Name:
2) Social Security Number:
3) Department: Accounting
4) Describe the purpose of your trip.

5) Itemize your travel expenses

Date	Description	Category	Amount
mm/dd/yy	<input type="text"/>	Meal <input type="button" value="▼"/>	<input type="text"/>
mm/dd/yy	<input type="text"/>	Meal <input type="button" value="▼"/>	<input type="text"/>
mm/dd/yy	<input type="text"/>	Meal <input type="button" value="▼"/>	<input type="text"/>
mm/dd/yy	<input type="text"/>	Meal <input type="button" value="▼"/>	<input type="text"/>

6) Have you submitted your receipts? Yes

Questions? Contact Debbie Larson in Accounting (ext. 2150).

Submit → Alert for submit

Reset → Reset the data on Form

Instructions:

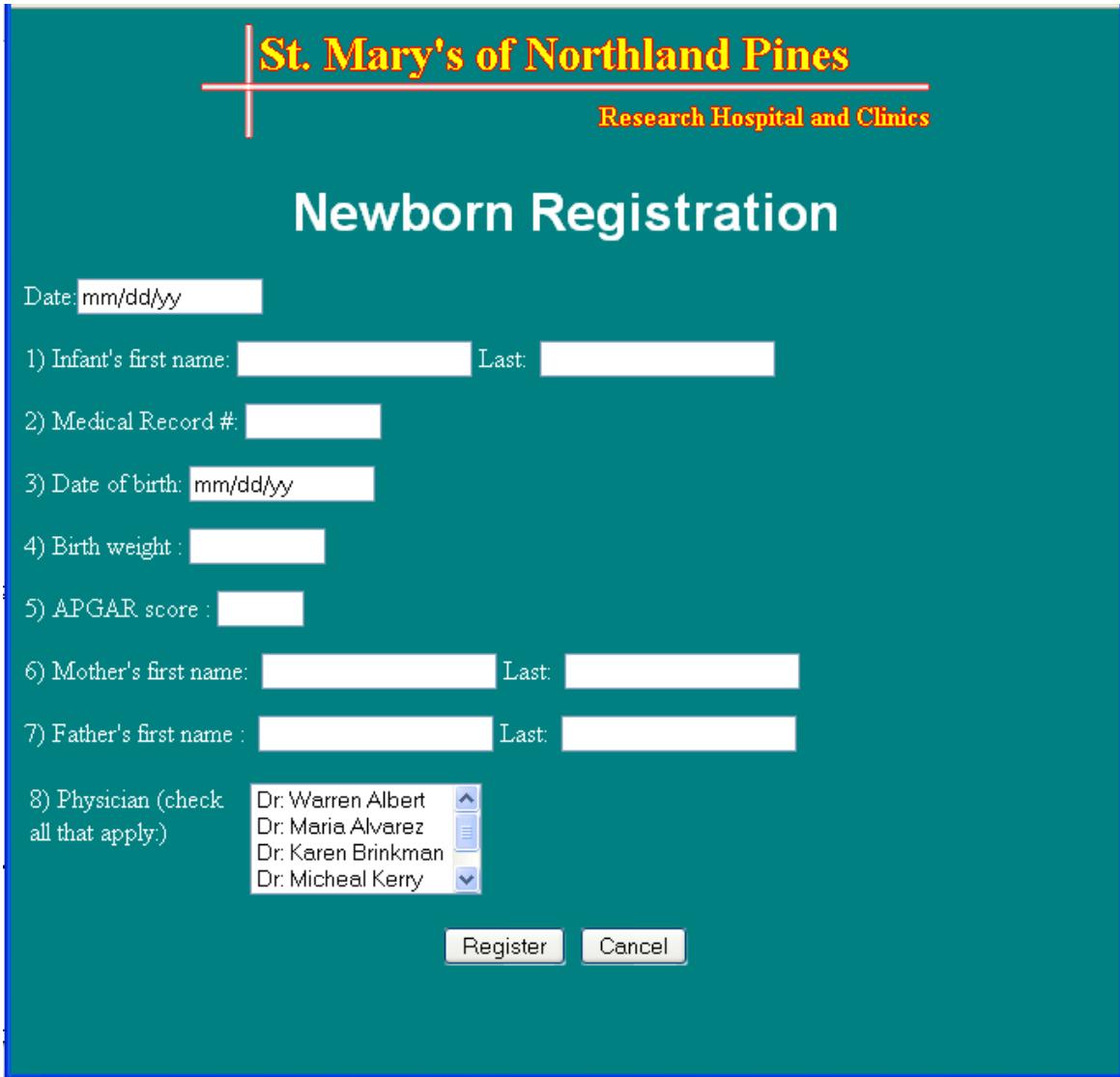
Image file and attached data in folder Exercise 50.

<https://tranduythanh.com/webmaterials/ex50.zip>

In addition, students can use the image as a background for the page.

Exercise 51: Registration**Requirement:**

Design the **Registration** form page, Graphic User Interface as shown below:



The screenshot shows a registration form for a newborn. At the top, it says "St. Mary's of Northland Pines" and "Research Hospital and Clinics". The main title is "Newborn Registration". The form fields include:

- Date: mm/dd/yy
- 1) Infant's first name: Last:
- 2) Medical Record #:
- 3) Date of birth: mm/dd/yy
- 4) Birth weight:
- 5) APGAR score:
- 6) Mother's first name: Last:
- 7) Father's first name: Last:
- 8) Physician (check all that apply):
 - Dr. Warren Albert
 - Dr. Maria Alvarez
 - Dr. Karen Brinkman
 - Dr. Micheal Kerry

At the bottom are "Register" and "Cancel" buttons.

Instructions:

Image file and attached data in Exercise 51.

<https://tranduythanh.com/webmaterials/ex51.zip>

In addition, students can use the image as a background for the page.

Exercise 52: Contact - GET

Requirements:

Create contact page as shown below:

Contact the editorial office

Full name

Email
 Send to

Editorial board

News Department

Board of Perspectives

World Board

Business Department

Title

Content

When clicking send message → use GET method to transfer all data in Contact page to a new page (Student designed it by themselves)..

Instructions:

Refer to the lesson of getting data in theory class

Exercise 53: Product-GET

Requirements:

Create a website List of products below, combining **Table + TextBox, Button**

Part Number	Description	Price	Qty	Item table
C112	Mouse	19.95\$	<input type="text"/>	<input type="text"/>
B124	Keyboard US	29.95\$	<input type="text"/>	<input type="text"/>
U125	USB KingMax	39.95\$	<input type="text"/>	<input type="text"/>

Total:

Use the GET Method to process the Sum button=>send all the data through a new HTML page (Students make up this HTML page by themselves)

Instructions:

Refer to the lesson of getting data in theory class

Module 5: Javascript

Content of practical knowledge:

- + Understanding JavaScript language in web design and programming
- + Know how to use the rules and syntax of the HTML language to support the interface design and handling design of the website
- + Know how to associate JavaScript language, JavaScript functions with HTML tags
- + Mastering the rules and techniques of string processing with Javascript
- + Build and use object classes in JavaScript

Exercise 54: Math function

Requirement:

Create a website with Table and Textbox, Button to calculate MAX, MIN, sin, cos... As described below:

a:	30
b:	45
c:	90
Result:	-0.9880316240928618
MAX	MIN
sin(a)	Cos(a)
a^b	

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Exercise 55: The quadratic equation

Requirement:

Write a WebSite to solve quadratic equations as described below:

The quadratic equation	
a:	<input type="text" value="1"/>
b:	<input type="text" value="3"/>
c:	<input type="text" value="-4"/>
Result:	x1=-4 ; x2=1
	<input type="button" value="Find solution"/> <input type="button" value="Clear"/>

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Exercise 56: String processing

Requirement:

Create web page String processing As described below (Using tables and controls):

Using String Processing functions	
Input Data:	Result:
Enter Data	Count the number of uppercase characters
Uppercase display	Output one word per line
lowercase display	Word count
Count the number of lowercase characters	print vowels, consonants
W3C's String Processing Website	

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Exercise 57: Handle the text change event

Requirement:

Create a website with Tables and controls as described below:

Part Number	Description	Price	Qty	Item table
C112	Mouse	19.95\$	<input type="text"/>	<input type="text"/>
B124	Keyboard US	29.95\$	<input type="text"/>	<input type="text"/>
U125	USB KingMax	39.95\$	<input type="text"/>	<input type="text"/>
Total:				<input type="text"/>
				Sum

- The user enters the quantity in the Textboxes the quantity in each line → The box into money will automatically calculate (Price * quantity). Data validity check required
- Click on “Sum” → display the total amount in the Total box

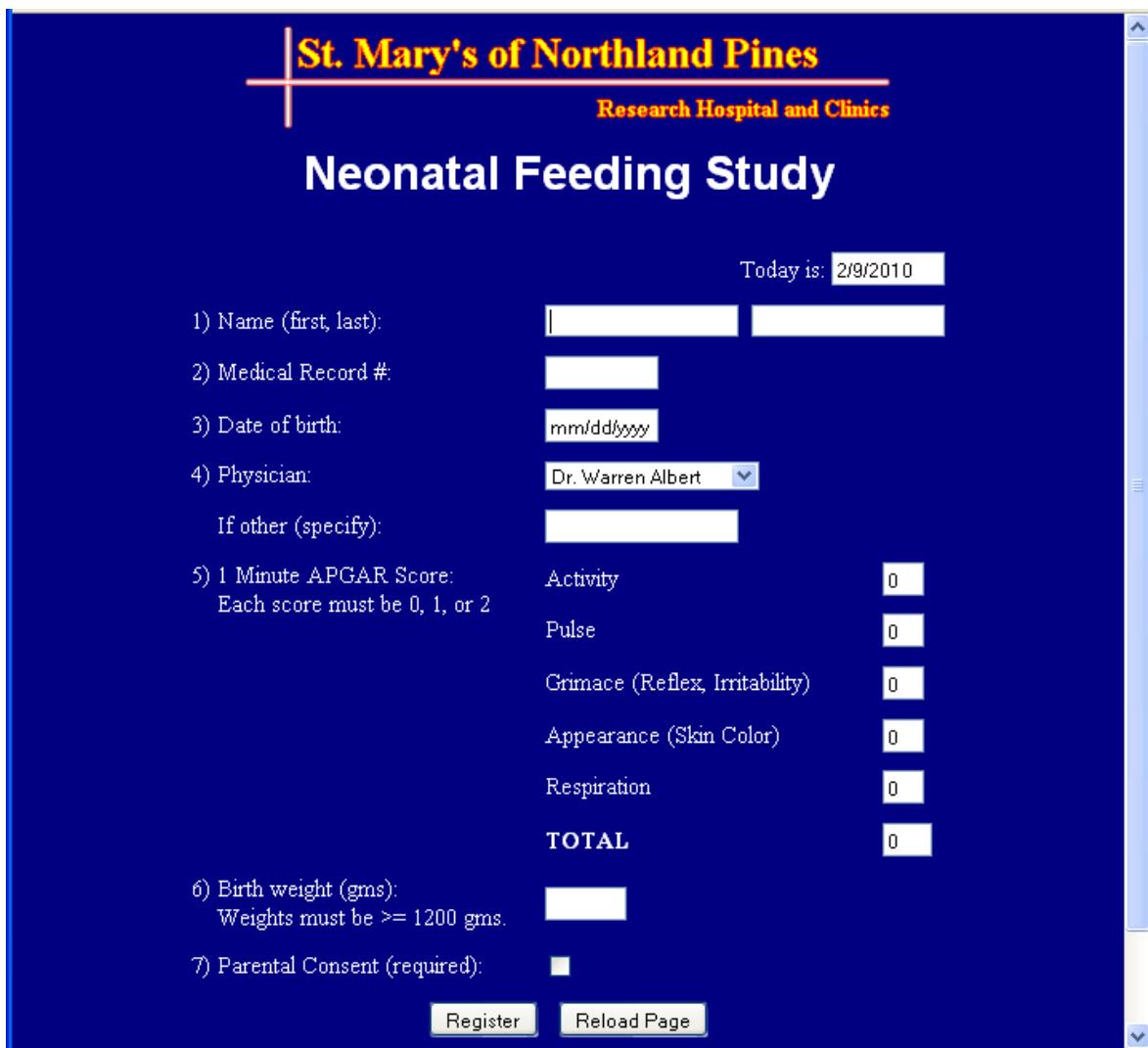
Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Exercise 58: Neonatal Feeding Study**Requirements:**

Design the form page as shown, with the following requirements:

- When loading the form, Today is will display the current date in the format d/m/yyyy and the apostrophe jumps to the name.
- In the Physician section, if the user chooses other, when pointing out, a message will appear asking to enter Name.
- Enter the value in the Activity, Pulse, Grimace, Appearance and Respiration boxes, the program checks the input value from 0=>2, if it is wrong, the program displays a message to re-enter. When entering the value in each cell, the Total cell will calculate the total value of the entered cells.



The screenshot shows a web-based form titled "Neonatal Feeding Study" from "St. Mary's of Northland Pines Research Hospital and Clinics". The form includes fields for Name, Medical Record #, Date of birth, Physician (with a dropdown menu showing "Dr. Warren Albert"), and a field for "If other (specify)". It also contains a table for 1 Minute APGAR Scores with columns for Activity, Pulse, Grimace (Reflex, Irritability), Appearance (Skin Color), and Respiration, each with a numeric input field. A "TOTAL" field at the bottom right of the table also has a numeric input field. Below the table, there is a field for Birth weight (gms) with a note that weights must be >= 1200 gms, and a checkbox for Parental Consent (required). At the bottom are "Register" and "Reload Page" buttons.

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Image file and attached data in folder Exercise 58.

<https://tranduythanh.com/webmaterials/ex58.zip>

Exercise 59: North Pole Novel Ties**Requirement:**

Design the **NPN.htm** website with the following requirements:

- Use the style sheet to format the headers, and the links do not have underlined, when hovering the mouse, the links turn red.
- Use Javascript to write a function to calculate the number of days remaining from the current day of the machine to Christmas (look at the yellow background).

**Instructions:**

Image file and attached data in folder Exercise 59.

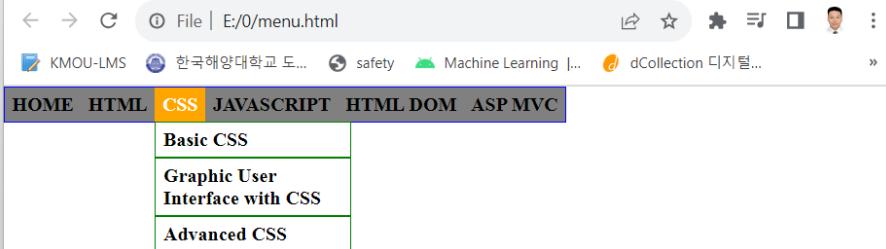
<https://tranduythanh.com/webmaterials/ex59.zip>

In addition, students can use the image as a background for the page.

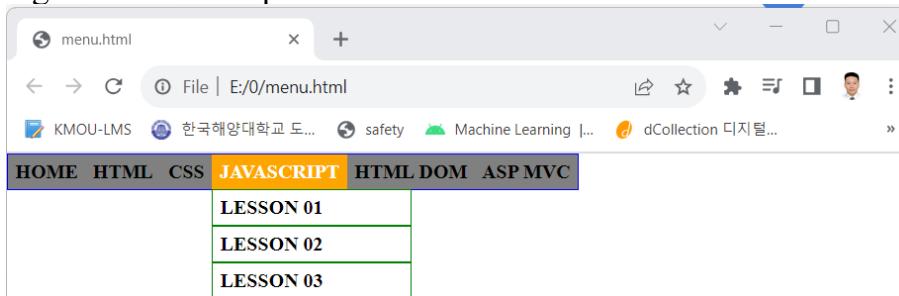
Exercise 60: Menu

Requirement:

Design a website with Menu with below requirements, combining **CSS and Javascript**:
When moving into the CSS Menu → Show 3 submenus below:



When scrolling to the JavaScript Menu → Show 3 submenus below



Moving to any Menu item changes the background color to Orange as shown in the picture.

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle. And refer to more on Google.

Exercise 61: Color Picker

Requirement:

Design the **Color Picker** page as shown below:

A Simple Color Picker

Background (enter values from '00' to 'FF')

RED: GREEN: BLUE:

Text (enter values from '00' to 'FF')

RED: GREEN: BLUE:

HAMLET:

Speak the speech, I pray you, as I pronounced it to you, trippingly on the tongue: but if you mouth it, as many of your players do, I had as lief the town-crier spoke my lines.

*If you are using Netscape, you won't be able to change the text color.

Clicking Apply will apply the color to the right content

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle. And refer to more on Google.

Module 6: XML - DOM and JSON

Practical knowledge content:

- + Understanding HTML DOM in web design
- + Understand the preeminent features of HTML DOM combined with JavaScript
- + Applying the dynamics of HTML DOM in designing and building websites
- + Understand and analyze XML document structure
- + Understand how AJAX works in data retrieval
- + Know the JSON data structure
- + Declaring and exploiting JSON

Exercise 62: Table Mouse Trigger

Requirement:

Write a command to move the mouse on any row in the Table, then fill that row with yellow, move the mouse out, then fill it with green.

#	Student ID	Student Name
1	123456	Albert Einstein
2	321232	Niels Bohr
3	987544	Stephen Hawking
4	359687	Isaac Newton
5	574878	Nikola Tesla
Designed by John		

Instructions:

Using Javascript to handle TR, each TR will have 2 **Mouse Over** and **Mouse Leave** events, each function should write its own function to handle.

Exercise 63: Member Registration

Requirement:

Create a **Member Registration** website, using <table> and controls on Forms and objects in JavaScript as described below:

Member Registration

Name(*)

Birthday(*) Day: Month: Year:

Gender(*) Man Woman

Email(*)

Your favorite:

- Shopping
- Tourism
- Chat
- Read a book
- Listening to music

Your favorite color:

- Blue
- Red
- Yellow
- Green
- Violet

Name	Email	Gender	Birthday	Hobbies	Colors
John	john@gmail.com	Man	02/02/1990	Reading	Yellow
Peter	peter@gmail.com	Man	01/01/1992	chat, reading	Red
Lucy	lucy@gmail.com	Woman	01/02/2005	Listening, Chat	Violet

- **Date, month, year of birth:** Write javascript to automatically upload dropdownlist(combo), use loops to load data for control.
- **When pressing register button:** Check Name cannot be left blank, Email must be valid. All information entered on the Form will be displayed in the Table below
- **Click Next button:** Delete the old data on the Form, focus on the Name box.
- Add **mouse over** and **mouse out** events for rows in Table. When moving the mouse in, the background is yellow, moving the mouse to the background is white.

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

Exercise 64: Dynamic Table

Requirement:

Design Interactive Table Website as shown below:

ID	Full Name	#
156874	John McCarthy	
987564	Alan Turing	
987569	Albert Einstein	

- Click “Insert Data” → using HTML DOM to create new TR with ID and Full Name information and then insert into Table.
- Click “Remove Icon” → Remove TR from the Table.

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle.

```

<html>
<head>
    <style type="text/css">
        table, td {
            border: solid;
            border-collapse: collapse
        }
        img {
            cursor: pointer
        }
    </style>
    <script type="text/javascript">
        function insertLast()
        {
            tbl = document.getElementById("tbl")

            tr = document.createElement("tr")
            td1 = document.createElement("td")
            td2 = document.createElement("td")
            td3 = document.createElement("td")
            id = document.getElementById("id").value
            name = document.getElementById("name").value
            td1.innerText = id
            td2.innerText = name
            td3.innerHTML = "<img src='deletetopic.png' 
onlick='processDelete(this)'/>"
            tr.appendChild(td1)
            tr.appendChild(td2)
            tr.appendChild(td3)
            tbl.appendChild(tr)
        }
        function processDelete(img) {
            tbl = document.getElementById("tbl")
            vtDelete=img.parentNode.parentNode.rowIndex
        }
    </script>

```

```

        tbl.deleteRow(vtDelete)
    }
</script>
</head>
<body>
<table>
<tr>
    <td>ID:</td>
    <td><input type="text" id="id" name="id" /></td>
</tr>
<tr>
    <td>Full Name:</td>
    <td><input type="text" id="name" name="name" /></td>
</tr>
<tr>
    <td colspan="2">
        <button type="button" onclick="insertLast()">Insert Data</button>
    </td>
</tr>
</table>
<table id="tbl">
<tr>
    <td>ID</td>
    <td>Full Name</td>
    <td>#</td>
</tr>
<tr>
    <td>156874</td>
    <td>John McCarthy</td>
    <td>
        
    </td>
</tr>
<tr id="idtr2">
    <td>987564</td>
    <td>Alan Turing</td>
    <td></td>
</tr>
<tr>
    <td>987569</td>
    <td>Albert Einstein</td>
    <td></td>
</tr>
</table>
</body>
</html>
```

Exercise 65: Dynamic List

Requirement:

Design Web Node with content as illustrated:

Add Node

Remove Node

Modify Node

Content

New Content

Position

Position

Position

Web Node

- Data base
- Web1
- Web2

- **Add Node:** Add a Node with content to the position in the Web Node (the div contains the li)
- **Delete Node:** Delete Node at any position in li
- **Modify Node:** Replace old content in place with new content

Instructions:

Using Javascript to handle buttons in Web pages, each function writes its own function to handle. Use insertBefore, appendChild, removeChild, replaceChild...

Exercise 66: XML-Dom Parser

Requirement:

In the HTML file there is an XML string with the following content:

```
<student>
  <id>987456</id>
  <name>Marie Curie </name>
  <birthday>7/11/1867</ birthday >
  <gender>Woman</ gender >
</student>
```

Use DOMParser to read Student ID, Full Name, Date of Birth, Gender and display it on Table:

Student Information	
Student ID:	987456
Student Name:	Marie Curie
Birthday:	7/11/1867
Gender:	Woman

- Add mouse movement event to the row: Blue background, white text
- Add event to move mouse out of row: white background, black text

Instructions:

Read the DOMParser lecture in slides

Exercise 67: XML – DOM Parser (*)

Requirement:

In the HTML file there is an XML string with the following content:

```

<students>
  <student>
    <id>987456</id>
    <name> Marie Curie </name>
    <birthday>7/11/1867</birthday>
    <gender> Woman </gender>
  </student>
  <student>
    <id>987561</id>
    <name> Einstein </name>
    <birthday>14/3/1879</birthday>
    <gender> Man </gender>
  </student>
  <student>
    <id>985467</id>
    <name> Leó Szilárd </name>
    <birthday>11/2/1898</birthday>
    <gender> Man </gender>
  </student>
  ....
</students>

```

Use DOMParser to read Student ID, Full Name, Date of Birth, Gender and display it on Table:

List of Students			
Student ID	Student Name	Birthday	Gender
987456	Marie Curie	7/11/1867	Woman
987561	Einstein	14/3/1879	Man
985467	Leó Szilárd	11/2/1898	Man

- Add event click on column header: sort ascending or descending
- Add mouse movement event for the row: yellow background
- Add event to move mouse out of row: white background
- Add event click on the row → opens a detail page, for example, clicking on the row you have “Marie Curie” will display the detail page as follows:

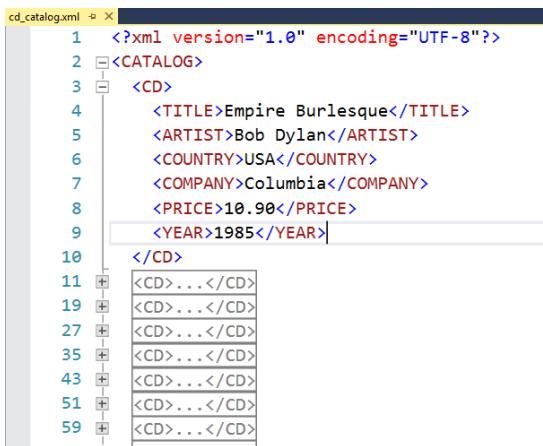
Student Information	
Student ID:	987456
Student Name:	Marie Curie
Birthday:	7/11/1867
Gender:	Woman

Instructions:

See how to use **DOMParser** in lecture slides

Exercise 68: XML - AJAX**Requirement:**

Given an XML data file with content:



```
cd_catalog.xml ④ X
1  <?xml version="1.0" encoding="UTF-8"?>
2  <CATALOG>
3   <CD>
4     <TITLE>Empire Burlesque</TITLE>
5     <ARTIST>Bob Dylan</ARTIST>
6     <COUNTRY>USA</COUNTRY>
7     <COMPANY>Columbia</COMPANY>
8     <PRICE>10.98</PRICE>
9     <YEAR>1985</YEAR>
10    </CD>
11   <CD>...</CD>
19   <CD>...</CD>
27   <CD>...</CD>
35   <CD>...</CD>
43   <CD>...</CD>
51   <CD>...</CD>
59   <CD>...</CD>
```

Download files here:

<https://tranduythanh.com/webmaterials/ex68.zip>

Use AJAX to read the **cd_catalog.xml** file displayed on the Table as shown:

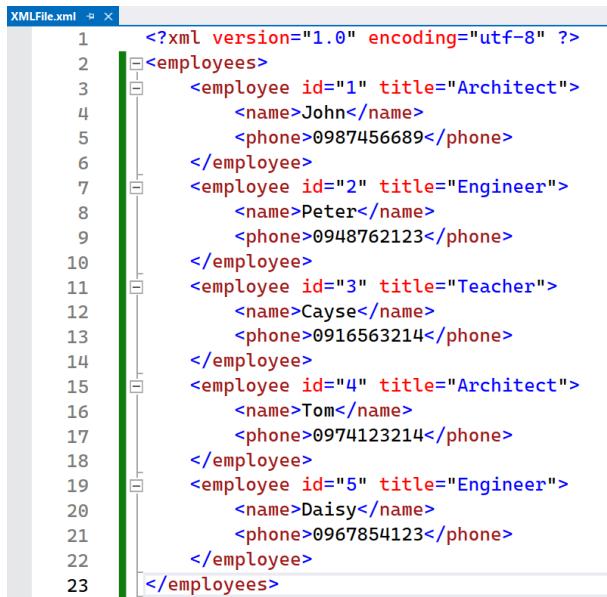
Artist	Title
Bob Dylan	Empire Burlesque
Bonnie Tyler	Hide your heart
Dolly Parton	Greatest Hits
Gary Moore	Still got the blues
Eros Ramazzotti	Eros
Bee Gees	One night only
Dr Hook	Sylvias Mother
Rod Stewart	Maggie May
Andrea Bocelli	Romanza
Percy Sledge	When a man loves a woman
Savage Rose	Black angel
Many	1999 Grammy Nominees
Kenny Rogers	For the good times

Instructions:

See instructions on how to use AJAX in lecture slides.

Exercise 69: XML – AJAX (*)**Requirement:**

For XML File with structure and data as below:



```
XMLFile.xml + x
<?xml version="1.0" encoding="utf-8" ?>
<employees>
    <employee id="1" title="Architect">
        <name>John</name>
        <phone>0987456689</phone>
    </employee>
    <employee id="2" title="Engineer">
        <name>Peter</name>
        <phone>0948762123</phone>
    </employee>
    <employee id="3" title="Teacher">
        <name>Cayse</name>
        <phone>0916563214</phone>
    </employee>
    <employee id="4" title="Architect">
        <name>Tom</name>
        <phone>0974123214</phone>
    </employee>
    <employee id="5" title="Engineer">
        <name>Daisy</name>
        <phone>0967854123</phone>
    </employee>
</employees>
```

Use AJAX to read data:

- The title attribute of the Employee=>groups do not overlap and display on Dropdown
- Select data in Dropdown => Display Employee List by Title in Dropdown (use Table to display):

Title:	Architect ▾	
Employee ID	Employee Name	Phone
1	John	0987456689
4	Tom	0974123214

Instructions:

See instructions on how to use AJAX in lecture slides, google search.

Exercise 70: JsonObject vs JSONArray**Requirement:**

Present the structure of JsonObject, JSONArray. Compare the difference between XML and JSON.

Instructions:

- + Read theory in Slide and learn more on Google

Exercise 71: Display User Information**Requirement:**

Given a user object in the format Json Object as below (data in HTML file):

```
<script>
  var user = {
    "id": "100005823642721",
    "first_name": "Duy Thanh",
    "gender": "male",
    "last_name": "Trần",
    "link": "https://www.facebook.com/duythanhcse",
    "locale": "en_US",
    "birthday": "20/12/1961",
    "name": "Duy Thanh Trần",
    "username": "duythanhcse"
  }
</script>
```

Display User's details on Table.

Instructions:

- + See instructions in the lesson Slide about JSon

Exercise 72: List of products**Requirement:**

Given a JsonArray with the following structure and data (data in HTML file):

```
"Products": [
  {
    "ProductID": "p123",
    "ProductName": "DELL Inspiron 14NR",
    "Quantity": 100,
    "UnitPrice": 150000
  },
  {
    "ProductID": "p456",
    "ProductName": "HP Inspiron 113",
    "Quantity": 130,
    "UnitPrice": 140000
  },
  ...
]
```

Let's display a list of Products on Table:

List of Products			
Product ID	Product Name	Quantity	UnitPrice
p123	DELL Inspiron 14NR	100	150000
p456	HP Inspiron 113	130	140000

Exercise 73: List of products

Requirement:

Use JsonArray to display the following data on the Table (data in the HTML file):

```
var products = [
    {
        code: "sp1",
        name: "Cocacola",
        price: 15000
    },
    {
        code: "sp2",
        name: "Pepsi",
        price: 25000
    },
    {
        code: "sp3",
        name: "Sting",
        price: 17000
    },
]
```

Product Code	Product Name	UnitPrice
sp1	Cocacola	15000
sp2	Pepsi	25000
sp3	Sting	17000

Instructions:

- + See the instructions in the Lesson Slide about Json

Exercise 74: Show Score - JSON-AJAX

Requirement:

Using JSON to display Student's Score data on the Table, requiring AJAX to read the data (data is outside the HTML file):

```

    ▼ array [4]
        ▼ 0 {3}
            Ma : sv1
            Ten : Nguyễn Thị Lanh
        ▼ MonHocs [3]
            ▼ 0 {3}
                MaMonHoc : MH1
                TenMH : Toán
                Diem : 9.5
            ▼ 1 {3}
                MaMonHoc : MH2
                TenMH : Lý
                Diem : 7.5
            ▼ 2 {3}
                MaMonHoc : MH3
                TenMH : Hóa
                Diem : 8
            ► 1 {3}
            ► 2 {3}
            ▶ 3 {3}

```

This **database-students.json** data file is stored in the directory Exercise 74

<https://tranduythanh.com/webmaterials/ex74.zip>

Muốn tìm gì:

Mã Sinh Viên	Tên Sinh Viên	Điểm thành phần			Điểm Trung Bình	Kết quả
		Toán	Lý	Hóa		
sv1	Nguyễn Thị Lanh	9.5	7.5	8	8.33	Đậu
sv2	Nguyễn Văn Chanh	2.5	8.5	9	6.67	Đậu
sv3	Trần Văn Hò	3.5	2	4.5	3.33	Rớt
sv4	Phạm Ngọc Đồ	4.5	9	2	5.17	Đậu

Instructions:

- + Read the instructions in the Lesson Slide about Json

Exercise 75: Show Subject Book - JSONArray

Requirement:

Given the structure and data of a Json in HTML as follows:

```

sinhvien={

    Ma:1,
    Ten:'Trần Duy Thanh',
    Sachs:
    [
        {Ma:'S1',Ten:'Hồng Lâu Mộng',Trang:100},
        {Ma:'S2',Ten:'Tây Du Ký',Trang:200},
        {Ma:'S3',Ten:'Tam Quốc Chí',Trang:90},
        {Ma:'S4',Ten:'Bích Huyết Kiếm',Trang:70},
        {Ma:'S5',Ten:'Anh Hùng Xạ Đيêu',Trang:1000},
        {Ma:'S6',Ten:'Thần Điêu Đại Hiệp',Trang:500},
        {Ma:'S7',Ten:'Tần Thủu Hoàng',Trang:600},
        {Ma:'S8',Ten:'Chiến Quốc',Trang:400},
        {Ma:'S9',Ten:'Hán Sở Tranh Hùng',Trang:300},
        {Ma:'S10',Ten:'Bảo Đao',Trang:700},
    ],
    ChiTiet:function(){
        sv=$scope.sinhvien
        return sv.Ma +" "+sv.Ten
    }
}

```

Please read the data and display it on the Table as shown below:

Nhập Mã:	<input type="text"/>	
Nhập Tên:	<input type="text"/>	
Mã và Tên:		
Danh sách Sách đang mượn:		
Mã Sách	Tên Sách	Số Trang
S4	Bích Huyết Kiếm	70
S3	Tam Quốc Chí	90
S1	Hồng Lâu Mộng	100
S2	Tây Du Ký	200
S9	Hán Sở Tranh Hùng	300
S8	Chiến Quốc	400
S6	Thần Điêu Đại Hiệp	500
S7	Tần Thủu Hoàng	600
S10	Bảo Đao	700
S5	Anh Hùng Xạ Đيêu	1000

Instructions:

- + Read the instructions in the Lesson Slide about Json, AngularJS, Google search

Module 7: Open Source Website Development

Practical knowledge content:

- + Download, Install, setup and use Adobe Commerce open source
- + Download, Install, setup and use PrestaShop Commerce open source
- + Download, Install, setup and use WooCommerce open source

Exercise 76: Adobe Commerce

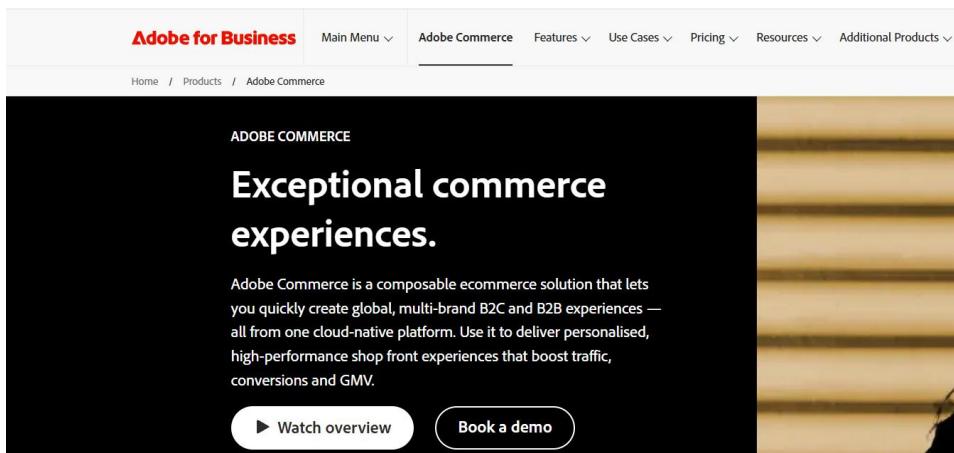
Requirements:

Students create an account and learn how to use Adobe Commerce:

<https://business.adobe.com/>

<https://business.adobe.com/uk/products/commerce.html>

Adobe Commerce is a composable ecommerce solution that lets you quickly create global, multi-brand B2C and B2B experiences — all from one cloud-native platform. Use it to deliver personalised, high-performance shop front experiences that boost traffic, conversions and GMV.



Write the important functions below in approximately 20 pages:

- Introduction to Adobe's E-Commerce Architecture
- Installing and Using the System
- Managing Products, Orders, and Customers
- Customizing Interface and Extending Features

Exercise 77: PrestaShop Commerce

Requirement:

Students create an account and learn how to use Presta Commerce:

<https://prestashop.com/>

PrestaShop is an open-source e-commerce platform developed with PHP and MySQL, available for free download and use. It has evolved into a global community-driven project with hundreds of built-in features and integrations, along with a diverse ecosystem of modules and languages.



**MORE THAN 250,000 MERCHANTS ARE
ALREADY ON PRESTASHOP**

[ALL STORE EXAMPLES ▶](#)



Write the important functions below in approximately 20 pages:

- Introduction to Presta's E-Commerce Architecture
- Installing and Using the System
- Managing Products, Orders, and Customers
- Customizing Interface and Extending Features

Exercise 78: WooCommerce

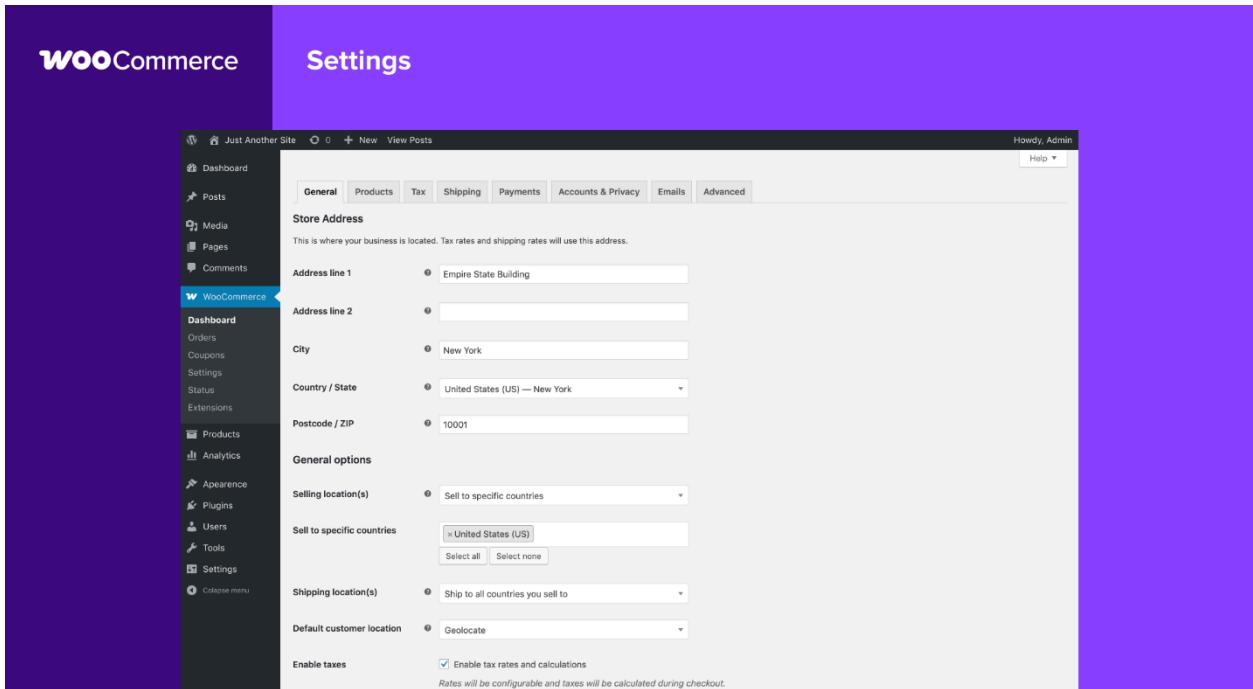
Requirement:

Students create an account and learn how to use WooCommerce:

<https://woocommerce.com/>

<https://wordpress.org/plugins/woocommerce/>

WooCommerce is a free plugin developed by WordPress that helps you create an online store and sell products online, allowing you to manage all your products, orders, payments, shipping, and customers on a single platform.



Write the important functions below in approximately 20 pages:

- Introduction to Presta's E-Commerce Architecture
- Installing and Using the System
- Managing Products, Orders, and Customers
- Customizing Interface and Extending Features