**CS 504 – Software Engineering**

**HOP04 – Blazor Page Application – Adding new Pages**

10/25/2020 Developed by Kim Nguyen

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**Before You Start**

* Version numbers may not match with the most current version at the time of writing. If given the option to choose between stable release (long-term support) or most recent, please choose the stable release rather than beta-testing version.
* This tutorial targets Windows users and MacOS users.
* There might be subtle discrepancies along the steps. Please use your best judgement while going through this cookbook style tutorial to complete each step.
* For your working directory, use your course number. This tutorial may use a different course number as an example.
* The directory path shown in screenshots may be different from yours.
* If you are not sure what to do or confused with any steps:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, ask a TA for help.

**Learning Outcomes**

Students will be able to:

* Continue adding and modifying components to Blazor Application
* Add pages to Blazor App.

**Resources:**

* Microsoft | ASP .NET - <https://dotnet.microsoft.com/apps/aspnet>

**Blazor App - Creating new pages**

Last week, we have customized existing pages of the Blazor Application, this week, we will add more pages to this application. Let’s add a page where we can store create a To-do list.

**Please move the Blazor App folder from “Module 3” folder to “Module 4”.**

(Under the Hands-on Practice folder)

1. Open the Blazor App project in VSCode. From the VSCode terminal, type the following command to create a new page:

dotnet new razorcomponent -n Todo -o Pages



You should see the new page showing under the project folder:

Graphical user interface, text, application

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1. Edit the Todo.razor file to match the following:

Graphical user interface, text, application

Description automatically generated

1. Run the app, to check the new page was added successfully to the app:

dotnet watch run

Graphical user interface, application

Description automatically generated

1. Go back to Todo.razor file, modify your code to match the following:

Text

Description automatically generated

1. Create a new file under the root folder (BlazorApp folder), name it TodoItem.cs, add the following code:

Graphical user interface, text, application

Description automatically generated Text

Description automatically generated

1. Save all changes, reload the browser, you should see:

Graphical user interface, text, application, email

Description automatically generated

Notice that at this point, nothing happens when you click the “Add todo” button, the reason is because we need to add an event handler to the button.

***What is Event Handler?***

*It’s a function or method containing program statements that are executed in response to an event. An event handler typically is a software routine that processes actions such as keystrokes and mouse movements. With Web sites, event handlers make Web content dynamic.*

1. Edit the Todo.razor file again to match following screenshot, this time, we will add the event handler, so that, each time we click the “Add Todo” button, user input will be added to the list:

Text

Description automatically generated

1. Save changes, reload the browser. Test your code by inputting some to-do items, and click the button, for example:

Graphical user interface, application

Description automatically generated

1. **Comment all the code in Todo.razor file and TodoItem.cs file, to explain the program**

**Push your work to GitHub**

Open the terminal from the VSCode by hitting the control + ~ key, make sure you are in the right path, for example: /Desktop/CS504/HOP04-YourGitHubUsername/Module 4

Type the following command:

git add . (to copy all changes you have made)

git commit -m “Submission for Module 4 – Your Name” (To add a message to your submission)

git push origin master (to upload your work to Github)