

01. [2025-03-10] S1P03 – Practical 03.

- **Practical Theme:** Responsive Web Design (RWD), HTML and Bootstrap in MVC.
- **Due date:** 2025-03-17 before 23:59.

Activity Notes & Instructions

PURPOSE AND OBJECTIVE.

The purpose and objective of this practical activity is to:

- Objective 1: Manipulating an ASP.NET MVC (C#) project.
- Objective 2: Creation and manipulation of MVC pattern in the project.
- Objective 3: Create responsive web controls using bootstrap.
- Objective 4: Configure routing for created views and controller actions.

MATERIAL BEING REFERENCED.

To successfully complete this activity, a student should refer to the notes, details and sample projects that is part of:

- 01. S1L05 Session 05 - Responsive web design (RWD), HTML and Bootstrap in MVC.
- 02. In addition, referring to previous content learned in previous lectures can improve your understanding of earlier concepts, such as the lecture on HTML and CSS, roadmap, etc.

ADDITIONAL USEFUL RESOURCES.

Additional reading resources that may assist with the completion of this activity:

- Bootstrap 5 Tutorial [URL: <https://www.w3schools.com/bootstrap5/>].

RESEARCH THAT WILL BE NECESSARY.

You will have to conduct independent research and readings on the following topics:

- Bootstrap 5, HTML and CSS.

GENERAL INSTRUCTIONS.

Please ensure that you follow the following general instructions.

- This is an individual practical.
- Practical work is based on assessment objectives. If an objective has been achieved a mark will be allocated.
- All practical activities conceptually (based on skills) feed into one or more homework assignments.
- By completing the practical work, you will be learning the necessary skills to complete homework assignments.

SUBMISSION DUE: 2025-03-17 before 23:59.

- There shall be no extensions to the deadline.
- Zip your completed Visual Studio Solution (e.g., **yourstudentnumber.zip**) then upload the **zipped file Only**
- All practical work will be marked in the following practical session during the follow-up week.
- Verify the completeness of your upload.
- Incomplete uploads will be considered unsubmitted work.
- E-mail and / or late submissions WILL NOT be accepted.
- NO EXCEPTIONS WILL BE MADE FOR ANYONE.

ACTIVITY DESCRIPTION AND DETAILS.

For this practical, please ensure that you comply with the instructions provided. The stipulated instructions are mandatory and not optional.

For the following tasks you will have to use:

- ASP.NET MVC Application (.NET 6) for C# (not F#).

TASKS:

1. Use the existing MVC project created for you in the Session 5 lecture on RWD. I.e., you must make changes to the existing .NET 6 project.
2. Unzip the provided S1L05_RWD_Lecture_Code.zip folder shared on ClickUP, then you begin with your amendments (**Figure 1 provides the view of the application provided to you**).
3. First requirement: You need to make the carousel (discussed in session 5) disappear, when the view/page/screen size is less than 700 px. *The concept on how to do this was discussed in the RWD lecture (see Figure 2 for the carousel that is not displayed when the screen view/page/screen size is smaller than 700 px).*
4. Second requirement: Create a “Consult.cshtml” view with the purpose of having bootstrap form controls to make a consultation booking. *Note, at present no functionality is required when clicking the submit button. **Validation is required for the Firstname, Lastname and Email controls.** For all three controls it is mandatory to fill in something into these controls. Further, an email address is required for the Email form control (see Figure 3).*
5. The link for the Consult View routing must be added, see Home/Schedule/About links as examples.
6. The Home Controller should contain the functionality/action for rendering the Consult View.

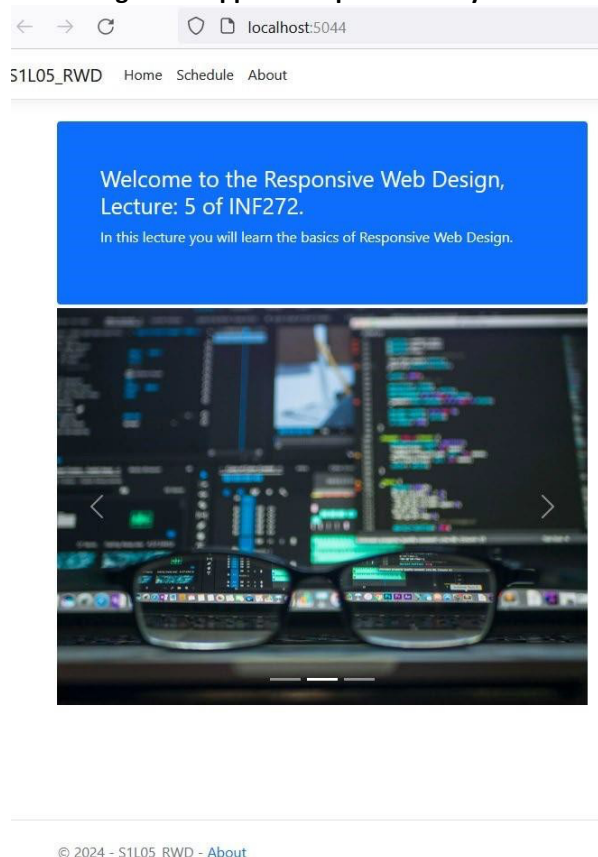
Figure 1 - Application provided to you

Figure 2 - Carousel not displayed anymore

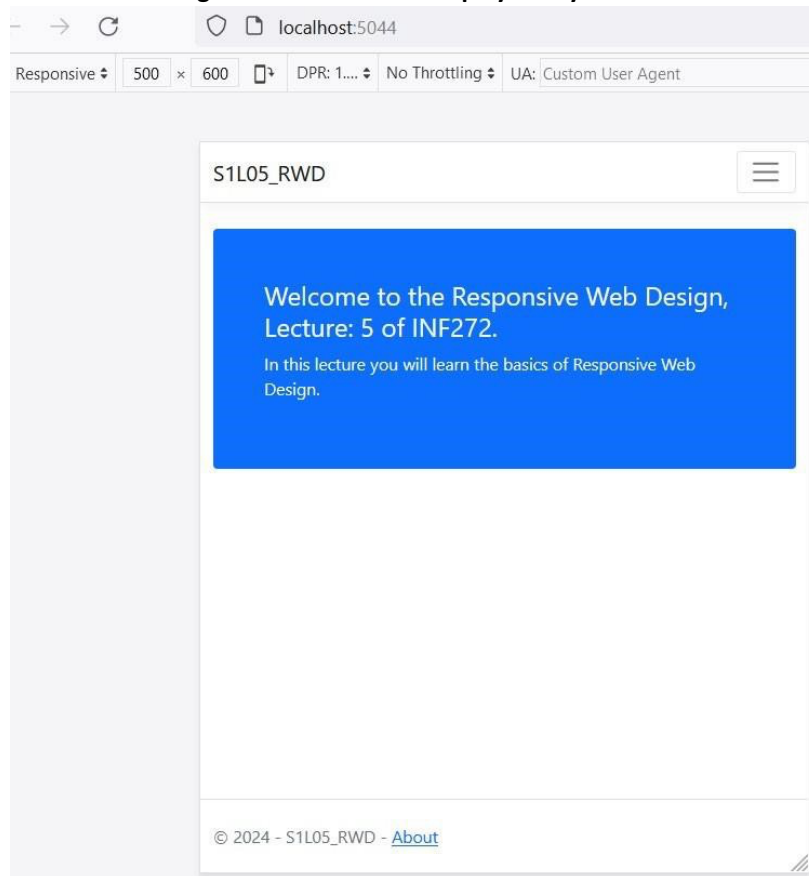
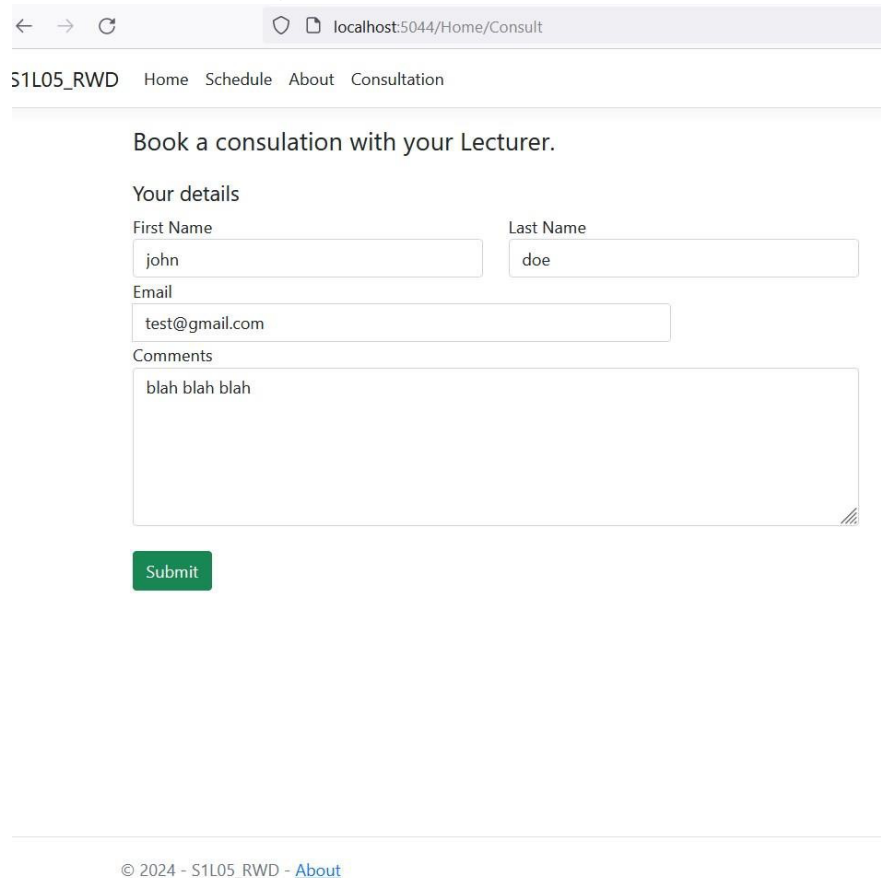


Figure 3 - Form for the Consult View



The screenshot shows a web browser window with the address bar displaying 'localhost:5044/Home/Consult'. The page has a navigation menu with links: '51L05_RWD', 'Home', 'Schedule', 'About', and 'Consultation'. The main heading is 'Book a consultation with your Lecturer.' followed by the section 'Your details'. There are three input fields: 'First Name' with the value 'john', 'Last Name' with the value 'doe', and 'Email' with the value 'test@gmail.com'. Below these is a 'Comments' section with a text area containing 'blah blah blah'. A green 'Submit' button is located below the comments. At the bottom of the page, there is a footer: '© 2024 - S1L05_RWD - [About](#)'.

51L05_RWD Home Schedule About Consultation

Book a consultation with your Lecturer.

Your details

First Name Last Name

john doe

Email

test@gmail.com

Comments

blah blah blah

Submit

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01. [2025-03-10] S1P03 – Practical 03.

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Rubric [____ / 18]

Student Number									Surname	Initials

REQUIREMENT [Marking].		DYSFUNCTION	PARTIAL	MARK
<ul style="list-style-type: none"> • Check the appropriate mark [XX]. • Add final mark and assign to top of rubric. 				
1.	Hide the carousel if screen size/page less than 700 px	0	1.5	3
2.	Creating the Consult.cshtml view	0	0.5	1
3.	Correct link created for Consult view routing	0	0.5	1
4.	Correct action created for Consult view in Home Controller	0	0.5	1
5.	The 5 control forms created as per figure	0	2.5	5
6.	The Firstname, Lastname and Email control validation is added	0	1.5	3
7.	The email control is checked for a valid email address	0	0.5	1
8.	Correctly displaying the controls in the layout/alignment shown in Figure 3, zero (0) marks if the layout is not the same. I.e., <i>the color, size of the controls can vary slightly, but the layout/alignment of the form controls must be identical to Figure 3.</i>	0	1.5	3
TOTAL		0	9	18