



Front End Development
Year 1 (2021/2022), Semester 2

PRACTICE1

Date: 10th Dec 2021
Time: 1 hour 30 mins

INSTRUCTIONS TO CANDIDATES:

1. There are TWO questions in this paper. Answer ALL questions.
2. There are **8** pages in this paper.
3. This is an OPEN BOOK practise. You may refer to the contents from your laptop but you are not allowed to access the Internet.
4. For this Practice, you will create a Visual Studio Project based on Blank Solution and name the Project as **Practice1**.
5. Upon completion of the test, upload the entire Practice1 folder into your folder in \\ictspace\FED.

QUESTION 1

Figure 1(a) shows the web page, “Sightseeing Activities in Singapore”, before applying styling.

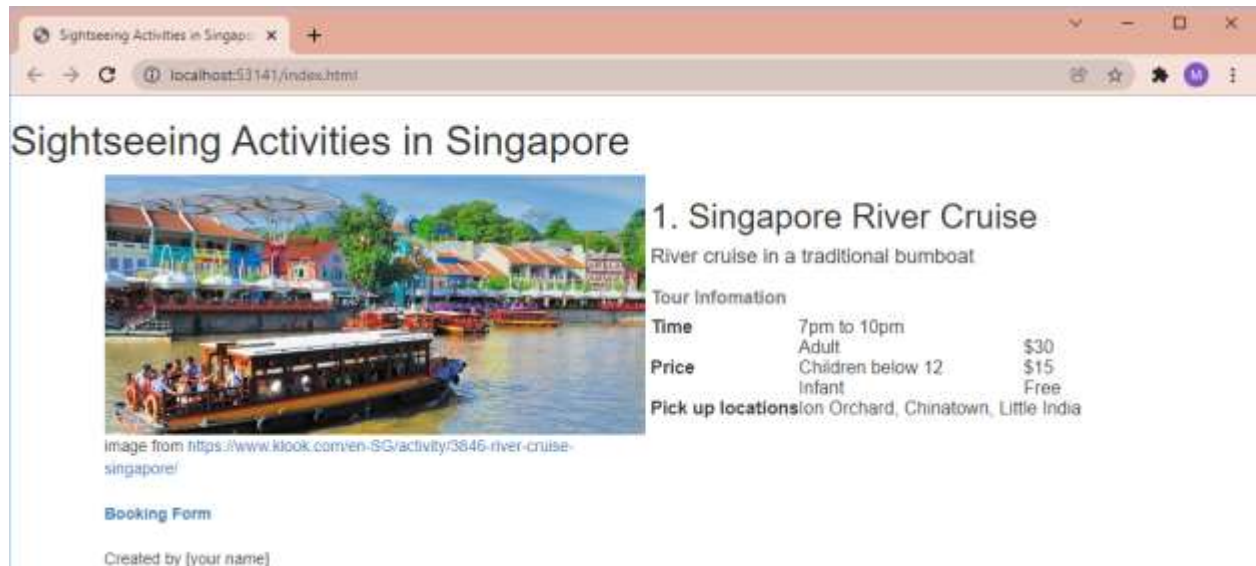


Figure 1(a): Web page before applying styling

(a) Create the web page as specified below:

- Create a new project in Visual Studio 2019 based on Blank Solution and name the project as **Practice1**
- Add folders for **css**, **js** and **images**.
- Copy the image **RiverCruise.jpg** to **images** folder.
- Copy **bootstrap.min.css** into **css** folder.
- Copy **bootstrap.min.js** and **jquery.min.cs** into **js** folder.
- Add an HTML page to your project name it as **index.html** and create the web page shown in Figure 1(a) with the following specifications:
 - Add meta tags for “author” as your name and “description” as “Sightseeing Activities in Singapore”.
 - Add the title as Sightseeing Activities in Singapore.
 - Add the bootstrap and jquery links.
 - Add the following elements to the <body>:
 - <header>
 - <footer>
 - In the <header>, add “**Sightseeing Activities in Singapore**” with the largest heading tag.
 - In the <footer>, add “Created by [your name]” (use your own name in place of [your name]).

- Apply bootstrap to create a flexible responsive layout for the contents in between <header> and <footer> tags. The contents consist of an **image** and **table** information **equally** distributed in the responsive layout.
 - The image consists of the followings:
 - The image to display is **RiverCruise.jpg**. Displays “**Singapore River Cruise**” when mouse is moved over the image.
 - Citation: “image from <https://www.klook.com/en-SG/activity/3846-river-cruise-singapore/>”. Open the website stated by the URL in a new window when the citation link is clicked if it is not already displayed in the browser.
 - The table information consists of the followings:
 - The heading “1. Singapore River Cruise” within an <h2> tag.
 - A short description of the tour: “River cruise in a traditional bumboat”.
 - The following table with caption “Tour Information”:
- | | | |
|-------------------|--------------------------------------|------|
| Time | 7pm to 10pm | |
| Price | Adult | \$30 |
| | Children below 12 | \$15 |
| | Infant | Free |
| Pick up locations | ION Orchard, Chinatown, Little India | |
- Add a hyperlink to the bookingForm.html for booking.

(b) Figure 1(b) shows the web page **index.html** after applying the styles. Create an external stylesheet named **styles.css** in the **css** folder with the specifications below and link the stylesheet to the HTML page.



Figure 1(b): Web page after applying styling

- Set the width of the page to 80% and centre it across the window.
- Set **font-family**: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif for the entire web page.
- Centre the heading **“Sightseeing Activities in Singapore”** across the web page.
- For the image, set the max-width to 100% and the top padding to 20px.
- For the citation, set the font size to 0.75rem and font style to italic.
- Add the following styles for the table:
 - Put the table at the center as shown in Figure 1(b).
 - Keep a distance of 20px from the text above.
 - Set the font size of the caption to 1.5 times the normal text.
 - Set the width of second and third columns to 150px.
 - Align all text in the table to the left and set the text in the first column to bold.
 - Borders to appear as shown in Figure 1(b).
 - Set the background colour of the first and last rows of the table to azure.
- Add the following styles for the footer.
 - Top and bottom border line of 1px.
 - Align the text to the centre.
 - Set the font size to 75% of the normal text and font style to italic.
 - Set the background colour to Highlight.

Figure 1(c) shows the web page when the browser is minimised:



Figure 1(c): Web page when the browser is minimised

QUESTION 2

You are engaged to develop a web page for the customers to book a sightseeing activity. Follow the instructions below to create the HTML form in Figure 2(a) (do not use table for this question).

The screenshot shows a web browser window with the title 'Tour Booking Form' and the address 'localhost:54430/bookingForm.html'. The form is titled 'Sightseeing Activities in Singapore Booking Form' and is divided into three sections: 'Tour Detail', 'Customer Detail', and 'Booking Detail'. The 'Tour Detail' section includes a dropdown menu for 'Name of Tour' (with the placeholder 'Please select the tour'), a date input field (with the placeholder 'dd/mm/yyyy'), and two input fields for 'Adult' (with the value '1') and 'Child' (with the value '0'). The 'Customer Detail' section includes a text input field for 'Name' (with the placeholder 'Enter your name') and a text input field for 'Email' (with the placeholder 'Enter email addresses'). The 'Booking Detail' section displays the message 'No tour selected' in red text. At the bottom of the form are two buttons: 'Submit' and 'Reset'. A footer at the bottom right of the form reads 'Created by [your name]'.

Figure 2(a): Initial Sightseeing Activities Booking Form

(a) Add a new HTML page to the project created in Question 1 above, name it as **bookingForm.html** and create the form shown in Figure 2(a).

- Add meta tags for “author” as your name and “description” as “Tour Booking Form”.
- Set the title for the web page as “**Tour Booking Form**”.
- Create the booking form with the following specification:
 - The form has a heading “Sightseeing Activities in Singapore Booking Form”, three sections – “Tour Detail”, “Customer Detail” and “Booking Detail”, and two buttons – “Submit” and “Reset”. There should also be a footer at the bottom of the form bearing your name.
 - The tour detail section should include the following:

- A drop-down list for selection of tour (the list consists of the four sightseeing activities as in Question 1, i.e. Beautiful Sentosa Island Afternoon Tour, Half Day City Tour, Singapore River Cruise and Christmas Light-Up Tour, as shown in Figure 2(b)).
- An input field for date, which should start from the current date until a year from now.
- Two input fields for number of adult and number of child respectively. The input for adult is in the range of 1 to 5 with the default value of 1, while the input for child is in the range of 0 to 5 with the default value of 0.



Figure 2(b)

- The customer detail section should include the following:
 - An input field for name.
 - An input field for email address.
 - All input fields should have a corresponding label and appropriate placeholder.
- The booking detail section should include four labels for the following displays (refer to Figure 2(c)):
 - To display the unit price of the tour selected, the default value is “No tour selected”.
 - To display the total price based on the number of passengers.
 - To display the date selected.
 - To display a final message.
- Input for all input fields are compulsory.

(b) Update the stylesheet **styles.css** created in Question 1 by adding the following styles for the form (refer to Figure 2(c) for the final web page after input selection):

- Form width: 80%
- Form display at the centre of the window
- Top and bottom padding: 10px; left and right padding: 20px
- Border: 10px solid line in deepskyblue
- Border display with a rounded-corner of 20px
- Centre-align the form heading
- Left-align all input fields by setting the width of labels for all except “Adult and “Child” to 100px
- Fieldset for the 3 sections with rounded-corner of 10px
- Legend appear in bold
- Footer: right-align, italic style, 75% of font size, deepskyblue colour
- Text display in booking detail in red colour, appear in bold and bottom padding of 10px.

(c) Create a JavaScript file called **bookingScript.js** in the **js** folder for the scripting to perform the following on the form in **bookingForm.html**:

- Allow the selection of date from today until a year from now.
- The price of the tour is as follows (half price for children):

Sightseeing Activity	Price per adult (\$)
Beautiful Sentosa Island Afternoon Tour	80
Half Day City Tour	36
Singapore River Cruise	30
Christmas Light-Up Tour	20

- Display the unit price of the selected tour and total price based on the number of passengers in the appropriate labels in the booking detail section when the user selects a tour or when the number of passengers is changed.
- Display the date selected when the user picks a date.
- Display a thank you message with the name of the customer when the submit button is clicked and disable all input fields.
- Reset all data in the input fields and the text in the booking details section to the original when the reset button is clicked.
- Figure 2(c) shows the result after the form is submitted.

Figure 2(c): Final Sightseeing Activities Booking Form

PLAGIARISM WARNING:

If a student is found to have submitted work not done by him/her, he/she will not be awarded any marks for this practical test. Disciplinary action may also be taken.

Similar action will be taken for student who allows other student(s) to copy his/her work, or posting any solutions or code related to the practical test before the end of the hour for the test.

**** END OF PAPER ****