Front End Development
Year 1 (2021/22), Semester 2

SCHOOL OF INFOCOMM TECHNOLOGY
Diploma in Cybersecurity & Digital Forensics

PRACTICAL TEST

Date: 14 January 2022
Time: 04:30 PM to 06:00 PM

INSTRUCTIONS TO CANDIDATES:

1.   Answer ALL questions in this paper.

2.   Please check that there are 6 pages in this paper.

3.   This is an OPEN BOOK test. You may refer to the contents from your laptop but you are not allowed to access the Internet.

4.   For this Practical Test you will create a Visual Studio Project based on Blank Solution and name the Project as **PracticalTest_SXXXXXXXX** where SXXXXXXXX is your Student ID.

5.   Upon completion of the test, upload the entire PracticalTest_SXXXXXXXX folder into your network folder in \\ictspace.ict.np.edu.sg\FEDPracticalTest. There is NO need to zip folder.

6.   Please be reminded that onus is on you to ensure accurate submission of the test project solution. Failure to do so may result in no mark awarded to you for this paper.

QUESTION 1 (100 marks)

Follow the instructions below to create HTML table of Open House Timetable with the specified styling. Contents of Open House Timetable can be found in Appendix A.

(a) **Create Open House Timetable for web page as specified in Figure 1.**

HTML Contents (Table)
i. Create a new project in Visual Studio based on Blank Solution and name the project as **PracticalTest_SXXXXXXXX** where SXXXXXXXX is your Student ID. Add a HTML page to your project and name it as **OpenHouse2022.html**.

ii. Add a folder named **images** and copy the image **ICT.jpg** to the **image** folder.
iii. Add meta tags for "author" as your name and "description" as "Open House 2022".
iv. Set the title for the web page as "Practical Test".
v. The image **ICT.jpg** should be placed at the top left corner of the page and is hyperlinked to http://www.np.edu.sg/ict, and set to open in a new tab. Set the alternate text as "ICT Logo" when the image is not available.
vi. The image should be placed with a resolution of width 160 and height set to 80.
vii. Create a table with the caption "Open House Timetable".
viii. Table rows and columns as depicted in Figure 1.
ix. Add horizontal rule after table creation.
x. Create a footer "Done by [Your name]".

(30 Marks)

(b) **Styling (Table)**

i. Add another folder named **css** and create an external stylesheet named **styles.css** in the **css** folder with the specifications below.
ii. Link the stylesheet to the HTML page. The eventual table should look like Figure 1.
iii. For entire page: align center, use font-family: Arial, Helvetica, sans-serif.
iv. For table:
   o Set the table and text alignment to center.
   o Set borders of the entire table accordingly.
   o Add padding of 4px to all the cells of the table.
v. Set the font of the caption, "**Open House Timetable**", to twice the normal size.
vi. Set the font style to bold for the cells **"Welcome to school of ICT"** and **"End of Open House 2022"**.
vii. Set background color to lightgrey to **Time**, **Programme** and **By** cells. All cells in the **Time column**, set background color to lightgrey as shown in Figure 1.

(20 marks)

Open House Timetable

Time	Programme	By
9:00am	**Welcome to School of ICT**	ICT Staffs
9:30am	ICT Director Speech	ICT Director
10:00am	Project demo by ICT students	CSF Students
11:00am	Project demo by ICT students	IT students
12:00 noon	End of Day Briefing	Student Leaders
12:30 noon	**End of Open House 2022**	ICT Staffs

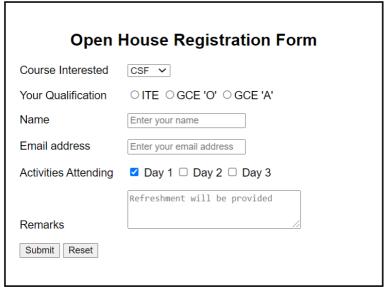*Done by FED Teaching Team*

Registration Page

Figure 1: HTML Table of Open House Timetable

HTML Contents (Form)

(c) Follow the instructions below to create the HTML form as shown in Figure 2. (Note: Do not use HTML table for this question.). Continue to code from the HTML page created in Question 1(a). When you click on the "**Registration Page**" link in the OpenHouse2022.html page, the **Registration.html** will be opened and displayed as shown in Figure 2.

(d)

Done by FED Teaching Team

Return to Home Page

Figure 2: Registration Form

i. Create the registration form with the following specification:
ii. The heading "**Open House Registration Form**" with <h2> tag is to be within the form.
iii. Correctly label names for all the fields.
iv. Dropdown list for **Course Interested** with values **CSF**, **FI**, **IMGD** and **IT**.
v. Radio buttons for **Qualification** with values **ITE**, **GCE 'O'**, **GCE 'A"**. Allow to select only one option.
vi. **Name** text field to accept names entered.
vii. **Email address** field should accept only a valid email address.
viii. Checkbox for **Activities Attending** field with values **Day 1**, **Day 2** and **Day 3**. Set "**Day 1**" checkbox as selected.
ix. Text area with 3 rows and 30 columns to enter the **Remarks**.
x. The input fields for "**Name**", "**Email address**" and "**Remarks**" should display hints as shown in Figure 2.
xi. Buttons **Submit** and **Reset** to submit and reset form respectively.
xii. All input fields are required except checkbox field 'Activities Attending'.
xiii. In the footer of the page, add "Done by " followed by your name in italics.

(30marks)

Styling (Form)

(e) Update the stylesheet **styles.css** created in Question 1(a) by adding the following styles for the form.
  i. Form width: 500px
   * Margin: top and bottom 0, left and right 50px
   * Padding: 20px
   * Border: solid line
  ii. Centre-align the form heading.
  iii. Left-align all input fields by setting the width of labels to 150p
  iv. Style the footer - add padding of 10px to the top of the footer. Set the font style to italic. Center footer and style the text color of the footer to red.

(10 marks)

Javascript (Form)

(f) Add another folder named **js.**
  i. Create a javascript file named **practiseTest.js** in the **js** folder. Link the javascript file to the HTML page.

  ii. When submit button is pressed, the javascript file will processed the name entered and which Day attended in the HTML page. The eventual output should look like Figure 3.
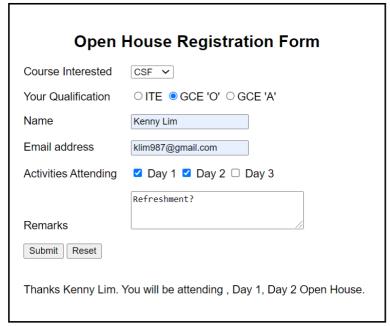
(10 marks)

Eventual Output of webpage

Open House Timetable

Time	Programme	By
9:00am	**Welcome to School of ICT**	ICT Staffs
9:30am	ICT Director Speech	ICT Director
10:00am	Project demo by ICT students	CSF Students
11:00am	Project demo by ICT students	IT students
12:00 noon	End of Day Briefing	Student Leaders
12:30 noon	**End of Open House 2022**	ICT Staffs

Done by FED Teaching Team

Registration Page

Open House Registration Form

Course Interested   CSF ▾

Your Qualification   ○ ITE ⦿ GCE 'O' ○ GCE 'A'

Name   Kenny Lim

Email address   klim987@gmail.com

Activities Attending   ☑ Day 1 ☑ Day 2 ☐ Day 3

Remarks   Refreshment?

Submit   Reset

Thanks Kenny Lim. You will be attending , Day 1, Day 2 Open House.

Done by FED Teaching Team

Return to Home Page

Figure 3   Eventual Webpage output

APPENDIX A

```
Time          Programme                    By
9:00am        Welcome to School of ICT     ICT Staffs
9:30am        ICT Director Speech          ICT Director
10:00am       Project Demo by ICT students CSF Students
11:00am       Project Demo by ICT students IT Students
12:00 noon    End of Day Briefing          Student Leader
12:30pm       End of Open House 2022        ICT Staffs
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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 **