



EASTERN UNIVERSITY, SRI LANKA

DEPARTMENT OF MATHEMATICS

THIRD YEAR EXAMINATION IN SCIENCE - 2015/2016

FIRST SEMESTER (Oct./Nov., 2018)

CS 353 – INTERNET AND MULTIMEDIA APPLICATIONS (PRACTICAL)

Answer all questions

Time allowed: 02 hours

Design a weather forecasting webpage using HTML and JavaScript as shown in the Figure 1. Consider the following steps to accomplish the task.

- Create the four buttons HOME, WEATHER, TEMP_CHECK, LOCATION as shown in the Figure 1.
- HOME button page belongs to the given same page in Figure 1. When the user clicks on the images (Facebook, Twitter and LinkedIn) on the bottom left corner of the page, that should be navigated to relevant websites.

Facebook: <https://www.facebook.com/>

Twitter: <https://twitter.com/>

LinkedIn: <https://www.linkedin.com/>

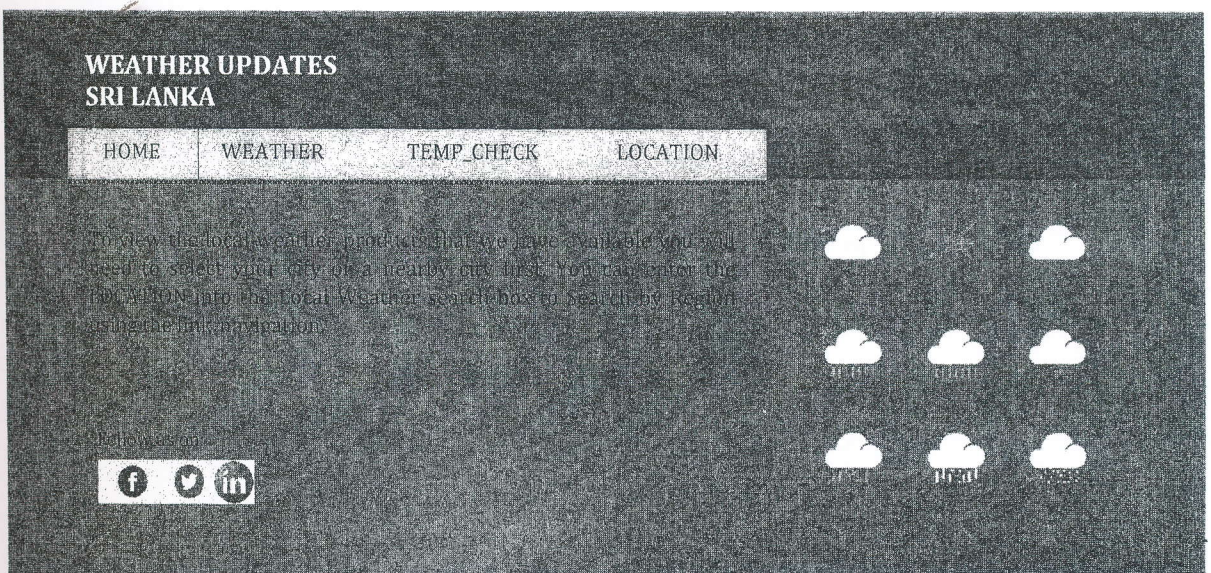


Figure 1

SAMPLE WEATHER SUMMARY

FACTORS	COLOMBO	JAKARTA	TOKYO	WARM HUMID CLIMATE
AIR TEMPERATURE	Mean 27.4°C Min 17°C Max 36°C	25°C	Min 19.4°C Max 36.0°C	
HUMIDITY	Mean value is 84%		Average 84%	
VAPOUR PRESSURE	Vapour Pressure is about 13m bar	Vapour pressure is 16-17 m bar	Vapour pressure is 14.5-16 m bar	About 15 m bar



Figure 2

- c) When the WEATHER button clicked it should be navigated to a new page as shown in the Figure 2, which titled as “Sample Weather Summary”.
- d) If the user clicks the TEMP_CHECK button it should be navigated to a new page as shown in the Figure 3, which titled as “Temperature Conversion”.

User has to enter the temperature value in Fahrenheit, and then the user clicks “SET TEMPERATURE” button. The Celsius value should be of the given temperature.

(hint: $C = (F - 32) * (5/9)$)

- i. If the Celsius value is less than 35, set the background color of the page to green and display an alert “Temperature set to normal condition...!!!!”.
 - ii. If the Celsius value is equal to 35, set the background color of the page to yellow and display an alert “You have reached the limit temperature...!!!!”.
 - iii. If the Celsius value is greater than 35, set the background color of the page to red and ask the user to type a lower value with the message: “Oooops its too high temperature, try little lower”.
 - iv. At the bottom of the page, current date and time should be displayed.
- e) When the user clicks LOCATION button, it should be navigated to google weather forecast maps URL, <https://www.accuweather.com/en/lk/national/weather-forecast-maps>

TEMPERATURE CONVERSION

Enter the temperature value you want to convert:

In Fahrenheit:

In Celsius:

SET TEMPERATURE

Fri Oct 26 20:18:10 +05:32 GMT+05:30 (India Standard Time)



Figure 3