Assignment 2

Q1: Get the Weather Using an API (25 points)

In this question, you are required to create a single web page and retrieve the current local weather using a free online service.

There are several free weather service providers available; it's up to you to find one, study its API, figure out what endpoint to use, and write the JavaScript code to retrieve the current weather for Calgary. You should retrieve at least the temperature and a description of the weather (e.g. partially cloudy, sunny, snowing, etc). Then Style your page.

Total 25 points:
Correct Weather Information (temperature and description) 10 points
CSS Style: 5 points
API: 10 points

Q2. Make BVC Sport Club Event Registration website (65 points)

In this question you are required to create a user registration website using REST API approach based on the following case study.

There are many students and staff who would like to attend the event prepared by BVC Sport club. In order to register for the event, everyone has to provide some information on the registration website and get the confirmation notice.

Scetion1: Frontend (20points)

Build a registration page so that the user can input their ID, Full name, Address, their status (as student, staff or volunteer) in the form. When they submit the form, they can get the confirmation notice to show ID, Full name, Address, status and fee.
(DO NOT SHOW THE FORM WITH THE CONFIRMATION NOTICE)
(DO NOT SHOW THE CONFIRMATION NOTICE IN ALERT)

Total 20 points:
Registration page (ID, Full name, Address, and status) 5 points
Confirmation notices 10 points
CSS Style: 5 points

Section 2: Backend (20points)

In this section you are required to create backend for Q2, following MVC pattern:

1. Get the request from the registration page and calculate the registration fee. The fee range is as follows: if it is student, the fee will be 10$, if it is staff, they fee will be 50$ and if it is volunteer the fee will be 0$.
2. Set the response with the registration information and fee.

Total 20 points:
MVC pattern 10 points
API: 5 points
Logic 5 points

Section 3: Deployment and testing (20points)

Deploy your frontend to GitHub page and deploy your backend to some website (e.g. Render, Netlify). When user click your GitHub page link, your frontend will connect your backend running on this website.

Test your project by clicking your GitHub page link, fill in the form, and get the confirmation notice from the backend.

How to submit: (10 points)

1. Take a recording of Question 2: show your backend on the website you deployed and run your frontend to show it works.
   Submit this recording file.

2. Paste 6 links in comment:
   1. GitHub repository link for Q1.
   2. GitHub page link for Q1.
   3. GitHub repository link for Q2 frontend.
   4. GitHub page link for Q2 frontend.
   5. GitHub repository link for Q2 backend.
   6. Backend server link (the link generated on the website)