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| **SODV1201 – Intro to Web Programming**  **Assignment 2** |
| **Rubric**   * 100 points available. * There are 4 parts to the assignment. Each part is worth the indicated points. * Partial credit will be given. * Worth 15% of final grade. * Your code will be evaluated for correctness (does it achieve the task it is supposed to?) * Your code will be evaluated for hygiene (is it clear, well-commented, and easy to follow?) * Use best coding practices:   + Add intelligent comments that explain your logic and intention.   + Use sensible variable names that match the purpose of a variable.   + Use whitespace and indentation to make your code easy to read.   **Submission Instructions**   * All of your source files should logically named and organized in an appropriate file structure. * Make sure to properly reference any outside resources that you used. * Place all source files into a zipped (compressed) folder, then upload it to D2L.   **Assignment Instructions**  Overview  Create a website with 4 pages: a homepage, a “Get Calgary Weather” page, a “BVC Sport Club Event Registration” page, and a “View BVC Sport Club Registrants” page. The 4 parts explained below give further instructions and requirements for each component of your website.  **Important note:** the website does NOT need to be styled at all. You are encouraged to use styling to make your website attractive; however, styling will NOT be graded.  Part 1 (10 points) - Homepage  The website’s homepage should be a single page that includes the following elements:   * A heading that includes your name. * A navigation menu that links to the other pages of your website. * A footer that includes your name, the current date and [standard copyright information](https://blog.hubspot.com/website/html-code-copyright).   Part 2 (30 points) – “Get Calgary Weather” page  Create a page that retrieves the current local Calgary weather using an API from a free online service. *Do not use any external JavaScript files to build this feature (i.e. files outside of your project).*  There are several free weather service providers available. You must research them, pick one, study its API, figure out what endpoint to use, and write the JavaScript code to retrieve the current weather for Calgary. You will need to figure out how to decode the response from the API which will most likely be a JSON-encoded object.  Your page should do the following:   * Use the “fetch” method to retrieve data. * Retrieve at minimum the temperature and a description of the weather (e.g. “20⁰C and partly sunny”; “-5⁰C and snowing”). * Display this information on the page using updated HTML DOM elements. (Do not use *document.write* to display information.)   Part 3 (30 points) – “BVC Sport Club Event Registration” page  Create a user registration page using the REST API approach based on the following case study:  “There are many students and staff who would like to attend an event hosted by the BVC Sport Club. To register for the event everyone must provide their BVC ID, Full Name, Address, and their Status as either a student, staff, or volunteer. A person’s Status will determine the price of their registration fee: students pay $10, staff pay $50, and volunteers pay $0. After a person’s registration is complete, display a confirmation message with all the details they entered, which acts as a receipt that they can print. All users who register using your form should have their registration details stored in a local JSON file for future use.”  Tips:   * Be sure to implement proper form validation. * Do not implement any type of payment processing. Just assume that the user will pay in-person at the event. * Make sure to store all registration data (BVC ID, Full Name, Address, Status, Fee) in a JSON file.   Part 4 (30 points) – “View BVC Sport Club Registrants” page  Create a page that will be used by the organizers of the BVC Sport Club to verify registrations on the day of the event (from Part 3). Imagine the organizers using this page as a reference to collect payments from the registrants as they enter the event.  The page should use a simple API to retrieve all the users and their registration data from the local JSON file, then display it on the page. No forms or interactive features are necessary – just get the list of registrants from the JSON data and display it on the page in any format. |
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