

**Web Technologies III – CSD 3103**

**Winter 2025**

**Test One**

**Instructor: Mehrnoush Ashrafi**

**INSTRUCTIONS:**

* Manage your time carefully.
* This is an in-class closed book assignment and any usage of notes, lectures, sample codes during the assignment is considered to be academic dishonesty.
* This is a hands-on practical exam. Simply develop and submit the code to fulfill the requirements of this assignment
* Do not forget to write your name and sign.

I declare that this assignment is my own work in accordance with Cestar College Academic Policy

No part of this test has been copied manually or electronically from any other source (including web sites) or distributed to other students.

**First Name: Arjun**

**Last Name: Basnet**

**Student ID:c0927403**

**Date: 2025/02/18**

In this test, you are requested to develop a book web-service using ‘Node’ with following functionalities:

* **getBooks:** Enquire about book for a specific book, for instance: getBook(“Science”)
* **updateBook:** Update the book of a specific book, for instance: updateBook(“History”, “High School, Garde 10”)
* **addBook:** Enter new book to the database. For instance: addBook(“Math”)
* **displayAllBooks:** Display the book for all cities: displayAllBooks()

Each book is represented by:

* Author name
* Title
* Publisher
* Subject
* Date published
* Rating

So, for each book, you are requested to store the above-mentioned information. Use JSON format to keep the data and ‘express’ library in JavaScript.

You are also requested to create the following html webpages for front-end:

* An html page that contains a text-box to enter the name of a book and add a button “Get Book”. Once the user clicks the button, the information about the book for that book is displayed on the screen.
* An html page to be used to update the book info for a specific book.

**To submit:**

Follow these steps to submit your work successfully:

1. Create a folder and name it as firstName\_lastName\_Test\_One.
2. Copy all files that you developed in this folder.
3. Write down your information on top of this document and place it in the folder.
4. Zip this folder and submit it through Moodle before the deadline.
5. If the size of your file exceeds the Moodle size limit, you can upload your codes on the OneDrive and provide a link to it on .txt file and upload that on the Moodle.