



CS4032-Web Programming

Assignment 03

BSCS – 6E and 6C

Instructor	Email
Sumaira Mustafa	sumaira.mustafa@nu.edu.pk

Maximum Marks :100

Submission Guidelines:

- Submit the assignment on Google Classroom before the deadline. Include screenshots in the Word document only, upload the project to GitHub, and ensure the Word document contains a link to your GitHub repository.
- Using AI tools is prohibited, **but you can use Google for better understanding.**
- Please submit a zip file containing all HTML files for each question. Ensure each file follows the naming convention: 21F-XXXX_NAME_SECTION,
- Late submissions will not be accepted.
- Plagiarism will result in zero marks for the assignment.

Note: For question number one, well-crafted portfolios are given higher scores.

Task 1: Personal Portfolio (40 Marks)

Develop a portfolio displaying your skills, projects, and experiences.

- Structure your portfolio in a way that's easy to present to potential employers.
- Make sure your portfolio is like a professional resume, highlighting your abilities effectively, leaves a lasting impression on anyone who views it.
- You have the freedom to use any technology you prefer, such as HTML/CSS, JavaScript, Bootstrap, or Tailwind CSS. The objective is to create a professional portfolio that can effectively showcase your skills and experiences to potential employers.
- It is mandatory and highly important to host your portfolio on GitHub Pages or any cloud service like Cyclic or Heroku. You can easily host static websites for free on GitHub Pages. You can refer to tutorials or watch videos to learn how to host a static website on GitHub Pages.
- Add your portfolio's live link to your GitHub profile. Please visit the following link to upload your portfolio to Cyclic. <https://www.youtube.com/watch?v=-B98D6x8mBg>

Here are some good portfolios you can use as inspiration:

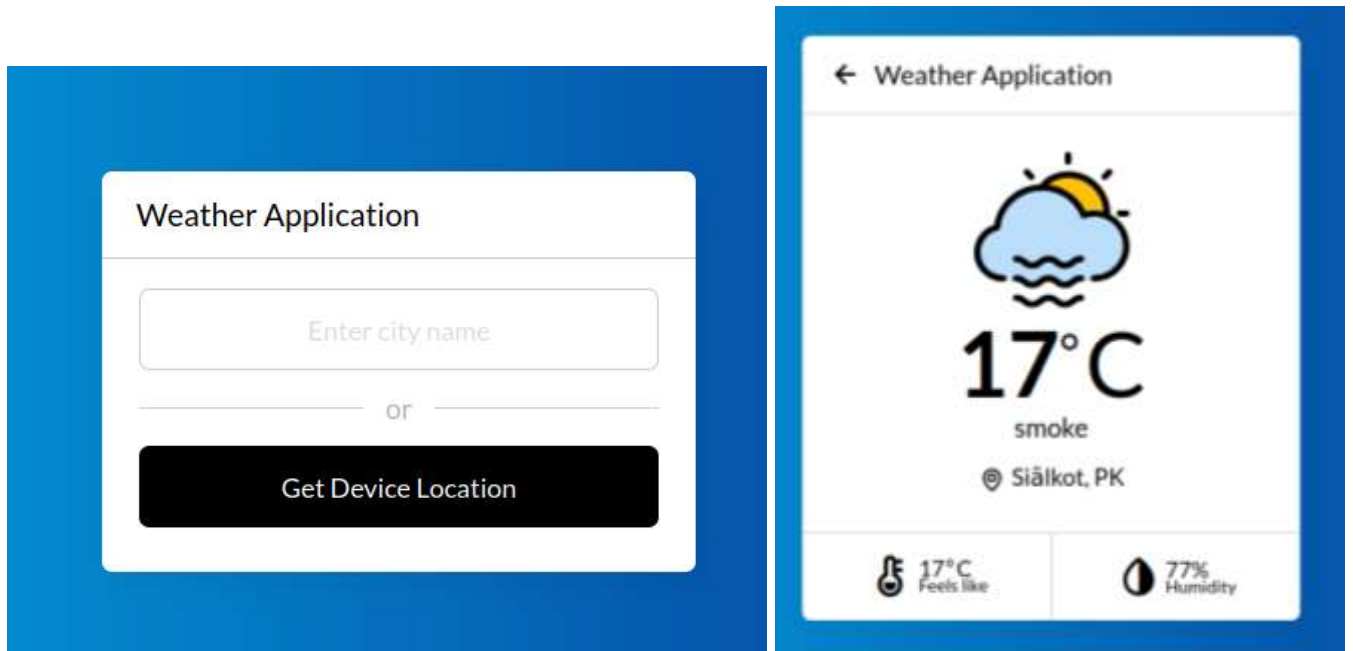
- 1) <https://ali-dot-com.github.io/Portfolio/>
- 2) <https://successful-cyan-spider.cyclic.app/>

Task 2: Weather App (20 Marks)

Create a weather application using HTML, CSS, JavaScript, and jQuery, incorporating a city search, current conditions, a 5-day forecast, and responsive design. Describe your development approach, detailing how each technology will be utilized and how weather data will be fetched and displayed from an API like OpenWeatherMap.

Link for API <https://openweathermap.org/api/>

Reference Images



Task 3: Digital Clock App (20 Marks)

Create a Digital Clock UI using HTML, CSS3, and jQuery as your assignment. The design should include hours, minutes, and seconds. Detail how you will implement real-time functionality and style the clock for a modern look using CSS3. Submit your code and a screenshot of the final output.



Task 4: Rock Paper Scissor Game (20 Marks)

Develop a Rock, Paper, Scissors game using HTML, CSS, JavaScript, and jQuery. Ensure it supports single-player mode against the computer, validates user choices, and includes a scoring mechanism. Submit the code and a document detailing your approach and challenges.

Reference Image:

