Hands-On Activity: Web Portfolio Development & Hosting on GitHub

Objective:

Students will create a **web portfolio** to showcase their **quizzes, projects, and other works**. The portfolio will be **hosted on GitHub Pages**, demonstrating their skills in **web development, usability, and version control**.

Activity Instructions:

Step 1: Plan Your Portfolio (10 points)

1. **Create a folder** on your computer named **"MyWebPortfolio"**.

2. Inside the folder, create the following subfolders:

   o   quizzes/ (for quiz files and solutions)

   o   projects/ (for past assignments and projects)

   o   about/ (for a short bio and resume)

   o   images/ (for personal or project-related images)

3. **Sketch a site structure** using a simple flowchart (Homepage, About, Projects, Quizzes, Contact).

Step 2: Develop Your Web Portfolio (40 points)

1. **Create an index.html file** (Homepage) inside MyWebPortfolio/.

2. Use **HTML, CSS, and JavaScript** to design your homepage. Ensure:

   o   A **navbar** links to your other pages. *(5 pts)*

   o   A **main section** showcasing your best work. *(5 pts)*

   o   A **footer** with contact details (email, LinkedIn, GitHub). *(5 pts)*

3. Create additional pages:

   o   about.html → Add your bio, resume, and a photo. *(5 pts)*

   o   projects.html → List your projects with descriptions and links. *(5 pts)*

   o   quizzes.html → Upload and link your past quizzes. *(5 pts)*

4. **Design and usability considerations:**

   o   Consistent layout and color scheme *(5 pts)*

   o   Mobile responsiveness *(5 pts)*

Step 3: Upload to GitHub (30 points)

1. **Create a GitHub repository** *(5 pts)*:

    o   Go to GitHub and create a **new repository** named **"WebPortfolio"**.

2. **Initialize your project** on your local machine *(5 pts)*:

    o   Open a terminal/command prompt.

    o   Navigate to your project folder (MyWebPortfolio).

    o   Run the following Git commands:

3. git init

4. git add .

5. git commit -m "Initial commit - Web Portfolio"

6. git branch -M main

7. git remote add origin https://github.com/YOUR_USERNAME/WebPortfolio.git

8. git push -u origin main

9. **Enable GitHub Pages** *(10 pts)*:

    o   Go to your GitHub repository.

    o   Click **Settings** > **Pages**.

    o   Under **Source**, select **main branch** and save.

    o   Your site will be live at:

    o   https://YOUR_USERNAME.github.io/WebPortfolio/

10. **Check the live site and verify functionality** *(10 pts)*.

Step 4: Test & Improve (10 points)

1. Open your GitHub Pages URL and test the navigation, links, and content formatting *(5 pts)*.

2. Improve the design by adding **CSS animations, responsive layout, and JavaScript interactions** *(5 pts)*.

Submission Requirements:

- **Live Portfolio Link (GitHub Pages URL) – (10 pts)**

- **GitHub Repository Link – (5 pts)**

- **Screenshots of Portfolio Pages – (5 pts)**

- **Short Reflection:** What did you learn from this activity? *(5 pts)*

Grading Criteria (100 Points Total)

Criteria	Points
Step 1: Plan Your Portfolio	**10 pts**
Folder structure & file organization	5 pts
Site structure sketch/flowchart	5 pts
Step 2: Develop Your Web Portfolio	**40 pts**
Functional navbar	5 pts
Main content section	5 pts
Footer with contact details	5 pts
About page with bio and resume	5 pts
Projects page with descriptions and links	5 pts
Quizzes page with uploaded quiz files	5 pts
Consistent layout and color scheme	5 pts
Mobile responsiveness	5 pts
Step 3: Upload to GitHub	**30 pts**
Creating and setting up a GitHub repository	5 pts
Committing and pushing files to GitHub	5 pts
Enabling GitHub Pages	10 pts
Checking the live site for functionality	10 pts
Step 4: Test & Improve	**10 pts**
Testing navigation, links, and formatting	5 pts
Enhancing design with CSS/JavaScript	5 pts
Submission Requirements	**10 pts**
GitHub Pages live link	5 pts
GitHub repository link	5 pts
Screenshots and reflection	5 pts

Final Output:

✅ A fully functional **web portfolio** hosted on **GitHub Pages**
✅ Organized and **well-structured** navigation
✅ A **visually appealing** and **responsive** design

This activity helps students **compile their work**, **demonstrate web development skills**, and **gain experience with GitHub for version control & hosting**.