

**Experiment 09: Create a website folder structure, save the project, and publish it using a free hosting service.**

**Learning Objective:** Student should be able to organize the complete “GadgetGalaxy” project into a logical and maintainable folder structure, use Git for version control, and deploy the entire static website to a public URL using GitHub Pages.

**Tools:** Notepad, Google Chrome, Git, GitHub, Command Prompt

**Theory:**

This experiment covers the final two stages of any professional development project: organization and deployment.


**1. Project Folder Structure:** As a project grows from one file to many, a clean folder structure becomes essential. As M.E. students, you can compare this to modular design in software engineering. We separate files based on their **type and function**. This practice, known as **separation of concerns**, makes the project:

- **Maintainable:** You know exactly where to find a file (e.g., all styles are in the CSS folder).
- **Scalable:** It's easy to add new pages, scripts, or styles without creating a mess.
- **Collaborative:** Team members can work on different parts (e.g., one on JS, one on CSS) without conflict.

**2. Version Control (Git) & Hosting (GitHub):**













- **Git** is a version control system. It's like a “save” button on steroids. It tracks every change you make to your code, allowing you to **revert** to previous versions, compare changes, and collaborate with your group without overwriting each other's work.
- **GitHub** is a web-based platform that hosts your Git repositories (project folders). It acts as a central cloud backup for your code and provides collaboration tools.
- **GitHub Pages** is a free service from GitHub that takes the HTML, CSS, and JavaScript files from your repository and hosts them as a live, publicly accessible website. This is perfect for static sites like our “GadgetGalaxy” project.


## Result and Discussion:

 **ParthRMehta** Move all website files to the root directory ✓

55691c9 · 8 minutes ago

🕒 5 Commits

 Writeups	Move all website files to the root directory	8 minutes ago
 images	Move all website files to the root directory	8 minutes ago
 README.md	Initial commit	2 hours ago
 cart.html	Move all website files to the root directory	8 minutes ago
 checkout.html	Move all website files to the root directory	8 minutes ago
 frames-example.html	Move all website files to the root directory	8 minutes ago
 index.html	Move all website files to the root directory	8 minutes ago
 main.js	Move all website files to the root directory	8 minutes ago
 product-detail.html	Move all website files to the root directory	8 minutes ago
 products.html	Move all website files to the root directory	8 minutes ago
 style.css	Move all website files to the root directory	8 minutes ago
 ~\$periment_1.docx	Final project commit for GadgetGalaxy	2 hours ago



The screenshot shows the live deployment of the GadgetGalaxy website. The header is dark green with the site name 'GadgetGalaxy' and navigation links: Home | Products | Cart | Checkout. The main content area is light gray and features a 'Featured Products' section with the text 'Check out our best-selling gadgets of the week!' and a 'Shop by Category' section with a list of categories: Headphones, Smartwatches, Keyboards, and Drones. The footer is dark green with the copyright notice: © 2025 GadgetGalaxy. A Project by M.E. Students, Mumbai.

GitHub page displaying files organization structure and live page displaying index.html page.

**Learning Outcomes:** The student should have the ability to organize a multi-file web project into a logical directory structure, use basic Git commands to initialize a repository and push it to GitHub, and deploy a static website to a public URL using GitHub Pages.

**Course Outcomes:** Upon completion of the course students will be able to organize, manage, and deploy a complete client-side web application using modern development tools and best practices. Also, students will be able to synthesize all learned concepts to produce a portfolio-worthy, multi-page responsive website in a group setting.

**Conclusion:**

This experiment successfully bridged the gap between local development and a live, public-facing web application. By organizing the file structure, utilizing version control with Git, and deploying via GitHub Pages, the “GadgetGalaxy” project is now complete. This demonstrates a comprehensive understanding of the entire front-end development workflow, from the first line of HTML to a globally accessible final product.

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				

