

WT Lab – Task 2

Web Technology Lab – LAB-2 TASK

Advanced CSS Styling & Professional UI Design

Objective

In Lab-1, you designed the basic structure of a real-time website using HTML and basic CSS.

The objective of Lab-2 is to enhance the same project by applying advanced CSS concepts to transform the website into a professional, industry-level user interface.

In this lab:

You must focus only on CSS

JavaScript, frameworks, libraries, or backend technologies are strictly prohibited

The final UI must visually resemble real-world applications such as:

Email platforms (Gmail-style)

E-commerce websites

Social media platforms

Portals or business websites

The enhanced interface should be:

Visually realistic

Professionally styled

Responsive across devices

Close in appearance to the selected reference application

Repository & Folder Structure (Lab-2)

You must continue using the same GitHub repository created in Lab-1:

Copy code

WTLab_StudentID OR WTLab_StudentName

Inside this repository, create a new folder for Lab-2 using the naming convention:

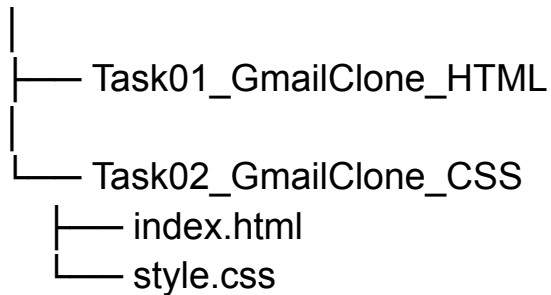
Copy code

Task02_<ProjectTitle>_CSS

Example Directory Structure

Copy code

WTLab_22CS045



General Instructions

Copy index.html from Task-01 and reuse it

Do not change the core HTML structure

Create a new external style.css file

All advanced styling must be written only in style.css

Inline CSS and internal <style> blocks must be avoided

Mandatory CSS Concepts to Be Covered

Each CSS concept listed below must be applied meaningfully, not for formality.

1. Core Styling & Theme Consistency

Apply realistic color schemes matching the chosen application

Use Google Fonts for professional typography

Icons may be used (Font Awesome or similar)

Maintain consistent font sizes, weights, and spacing

2. Layout Systems

Flexbox:

Navigation bars

Alignment of components

Form layouts
CSS Grid:
Dashboards
Product listings
Inbox layouts
Content feeds

3. CSS Box Model

Demonstrate:
margin for external spacing
padding for internal spacing
border for boundaries
box-sizing: border-box for layout stability

4. Positioning Techniques

Use:
relative and absolute for component positioning
fixed or sticky for headers, navigation bars, or sidebars

5. Navigation & Page Layout

Implement a professional navigation structure:
Sticky / fixed header or sidebar
Use multi-column layouts wherever applicable
Navigation must resemble real-time applications

6. Effects & UI Enhancements

Apply:
Hover effects on buttons, links, cards
Smooth transitions
Transform effects
Box shadows
Gradients (where appropriate)
UI must look modern, clean, and production-ready.

7. Real-Time Forms Design & Styling (Mandatory)

⚠ This lab is NOT limited to basic forms like contact or login only. Students must design real-time, industry-grade forms used in actual applications.

Step 1: Identify Real-Time Forms

Students must identify and include at least 3–5 real-time forms relevant to their chosen website.

Examples of Real-Time Forms

Email / Gmail-Style Application

Login form

Compose mail form (To, CC, Subject, Message)

Advanced mail search & filter form

Account settings form

Feedback / report issue form

E-Commerce Website

User login / signup form

Product search & filter form

Product review & rating form

Delivery address form

Checkout / payment UI form (UI only)

Order return / refund request form

Social Media Platform

Signup / onboarding form

Create post form

Comment / reply form

Profile edit form

Report content form

College / Portal Website

Student registration form

Course enrollment form

Project / assignment submission form

Leave / permission request form

Feedback / grievance form

Business / Corporate Website

Client onboarding form
Service inquiry / quotation form
Job application form
Support ticket form
Newsletter subscription form

Students must clearly mention:

Purpose of each form

Where it is used in real-world applications

Step 2: Advanced CSS Styling for Forms

All forms must be styled only using external CSS.

Mandatory elements to style:

Input fields (text, email, password, number, search)

Dropdowns (select)

Radio buttons & checkboxes

Textareas

Buttons (primary, secondary, disabled)

Labels

Placeholder text

Focus (:focus) and hover (:hover) states

Visual error / warning states (UI only)

Forms must:

Match the application theme

Use Flexbox / Grid layouts

Look realistic and professional

Be responsive across devices

✗ No JavaScript or backend logic allowed

8. Responsive Design (Mandatory)

Use CSS media queries

Layout must adapt to:

Mobile

Tablet

Desktop

Forms, navigation, and content must remain usable on all screen sizes

UI Quality Expectations

Lab-2 must show clear visual improvement over Lab-1

UI must:

Resemble a real-world application

Maintain consistent spacing and color usage

Look industry-ready and polished

Technology Restrictions

Allowed

Not Allowed

HTML

JavaScript

CSS

Frameworks

Libraries

Backend technologies

Commit & Submission Instructions

After completing Lab-2:

```
git add .
```

```
git commit -m "Lab-Task2 advanced CSS completed"
```

This commit message is mandatory.