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
│
├── Task01_GmailClone_HTML
│
└── Task02_GmailClone_CSS
    ├── index.html
    └── style.css
```

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.