



Department of Computer Science Engineering

Course Code: CSE416
Course Title: Web Engineering Lab
Experiment No : 03

Submitted by:

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Level 4 Term 2

Submitted To:

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Title: Web Page Design – Alibaba Clone Using HTML, CSS, and JavaScript

Objective:

To design a clone of Alibaba's landing page using raw HTML, CSS, and JavaScript. The purpose is to understand layout structuring, styling techniques, and form validation without using any frontend framework.

Tools Used:

- **Code Editor:** Visual Studio Code
- **Browser:** Google Chrome / Firefox
- **Technologies:** HTML5, CSS3, JavaScript (Vanilla)

Project Description:

1. This project replicates the homepage layout of Alibaba's official website. It includes:
2. A navigation bar with logo and buttons
3. A hero section with a search bar and background image
4. A frequently searched keyword display
5. A features section with service highlights
6. An email validation functionality with JavaScript

Implementation Details:

HTML (Structure):

- Built a `header` containing the logo and user options
- Used a `section` for the hero banner with search input and featured keywords
- Created a `features` section to highlight Alibaba's business solutions

CSS (Design):

- Applied Flexbox and Grid for layout
- Used color schemes similar to Alibaba's branding (orange, dark brown, white)
- Made the design partially responsive
- Added hover effects to interactive elements

JavaScript (Functionality):

- Wrote a function to validate email using a regular expression
- Connected validation to a "Create Account" button
- Displayed alerts for valid and invalid inputs

Code Snippet:

Full Code in github:

JS:

```
function validateEmail(email) {  
  
    const pattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
  
    return pattern.test(email);  
  
}  
  
function handleEmail() {  
  
    const emailInput = document.querySelector('.email-input');  
  
    if (validateEmail(emailInput.value)) {  
  
        alert("Valid Email");  
  
    } else {  
  
        alert("Invalid Email");  
  
    }  
  
}
```

Screenshots:

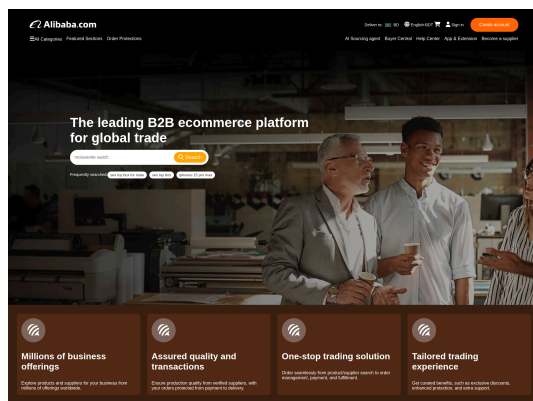


Fig -1: Front Page

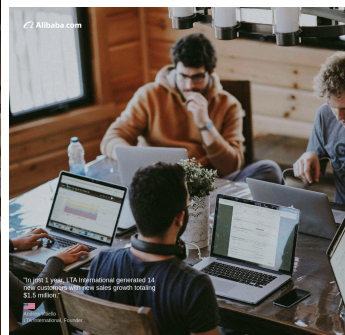


Fig-2: Become a seller Page

Conclusion:

This lab helped me understand the practical process of webpage structuring using raw HTML and CSS. Rebuilding a real-world website layout improved my frontend skills and gave me hands-on experience with JavaScript for form handling.