



**FAST
National University of Computer
And Emerging Sciences
Assignment # 1:**

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Subject: Web Technologies

BCS-8A

1. Code Structure Overview The document follows a standard HTML5 structure (`<!DOCTYPE html>`). The entire content is wrapped in a main container `div` centered on the screen with a maximum width of 1000px to simulate the fixed width of a physical newspaper page. The internal structure is divided hierarchically:

- **Header:** Contains the masthead, pricing, registration numbers, and date navigation.
- **Section (Headlines):** Holds the main banner headline regarding the Interim Government.
- **Table (Main Content):** Acts as the grid system for the three vertical columns of articles.
- **Footer:** Contains the publisher information and copyright details.

2. Key Sections

- **The Masthead (Header):** I used a nested `<table>` inside the `<header>` tag. This allowed me to split the top area into three distinct parts: the left sidebar (City/Edition), the center (Logo/Title), and the right sidebar (Price/Date). This was necessary because aligning these three elements perfectly using only inline block elements would have been difficult without external CSS.
- **The Column Grid:** The main content uses a single `<table>` row (`<tr>`) with three data cells (`<td>`). Each `<td>` represents a newspaper column. Inside these cells, I used `<article>` tags to group the content semantically.
- **Boxed Sections:** To recreate the distinct borders seen in the original image (such as the "Urgent Notice" or the "Cigarettes Advertisement"), I used `<div>` tags with inline styles for `border: 3px double #000` or `border: 4px solid #000`.

3. Design Decisions

- **Why Tables?** While modern web development uses CSS Grid, I used HTML Tables for the main layout because the assignment restrictions forbade external CSS and frameworks. Tables provide the most robust way to ensure a strict 3-column layout where text does not wrap underneath adjacent columns, preserving the vertical linearity of a newspaper.
- **Semantic Tags:** Even though I used a table for presentation (which is generally discouraged in modern production), I ensured the content inside was semantic. I used `<h1>` for the newspaper title, `<h2>` for the main headline, and `<h3>` for article titles. I also used `<nav>` for the date bar to indicate navigation-like content.

4. Challenges & Solutions

- **Vertical Alignment:** A major issue was that the columns had different lengths of text. By default, table cells might center content vertically. I solved this by applying `vertical-align: top` to the `<td>` styles, ensuring all articles started at the very top of the row.

- **Visual Fidelity:** The original newspaper used complex border styles. Standard solid borders looked too modern. I utilized `border-style: double` in the inline CSS to mimic the fancy printing styles of 1946. I also applied `filter: grayscale(100%)` to the images to ensure they looked like vintage black-and-white prints.

