

Questions for Web Tech File

HTML, CSS, Bootstrap

1. **Personal Portfolio Webpage**

Create a multi-section portfolio page with an intro, projects, and contact form. Style it with colors, fonts, and basic layout using CSS.

2. **Responsive Navigation Bar**

Build a top navigation bar that changes layout on smaller screens (hint: use bootstrap).

3. **Styled Table Showcase**

Create an HTML table to display product pricing or student grades and style it with borders, padding, and alternating row colors.

4. **Profile Card Grid**

Make a layout with three profile cards using CSS Grid. Each card includes an image, name, title, and a short description.

5. **Login Form with Validation Styles**

Design a login form using HTML and style it with CSS. Include hover effects, focus styles, and error message placeholders.

6. **Build a Blog Post Layout**

Make a single post page with headings, images, paragraphs, and tags. Use CSS to give the page a clean, readable look.

7. **CSS Animations and Transitions**

Create buttons or elements that animate on hover or click—like color transitions, sliding menus, or fade-ins.

8. **Newsletter Signup Page**

Make a form with fields for name and email. Use CSS to style input fields and add simple responsiveness.

Java Script

1. **Interactive Calculator**

Create a simple calculator that performs addition, subtraction, multiplication, and division based on user input.

2. **To-Do List App**

Build a dynamic to-do list where users can add and remove tasks. Add optional features like marking tasks as completed.

3. **Form Validation**

Write JavaScript that validates a form (e.g., checks if the email input contains "@", and that password fields match).

4. **Color Changer**

Make a page where clicking a button changes the background color to a random color.

5. **Real-Time Clock**

Create a digital clock that updates every second and displays the current time in hours, minutes, and seconds.

Servlet

1. **Form Data Processing**

Create an HTTP servlet that accepts user input from a form (e.g., name and email) and displays the submitted data on a new page.

2. **Session Tracking**

Write a servlet that tracks the number of times a user has visited the site using HTTP sessions. Display a welcome message that changes based on visit count.

3. **Redirect vs Forward**

Create two servlets: one that uses `sendRedirect()` and another that uses `RequestDispatcher.forward()`. Demonstrate the difference in behavior between the two.

JSP

1. **User Registration System**

Create a JSP page with a form that collects user details (name, email, password). On submission, store the data in a MySQL database using JDBC.

2. **Login Authentication**

Build a login page that checks user credentials against a database. If valid, redirect to a welcome page; otherwise, show an error message.

3. **Display Records from Database**

Write a JSP page that connects to a database and displays a list of products (or students) in an HTML table using a loop.

4. **Update and Delete Operations**

Create a page that lists records with “Edit” and “Delete” buttons. Implement functionality to update or delete the selected record using JSP and JDBC.

5. **Search Functionality**

Design a search form that allows users to enter a keyword. On submission, display matching records from the database using a LIKE query.