

Lab Session – Web Development & Web Hosting

1. What are the current trends in web development, and how are they shaping the future of the industry?
2. What are the best practices for responsive web design, and how do they contribute to better user experiences across devices?
3. How do web accessibility standards impact the design and development of websites, and what are the most effective strategies for ensuring accessibility compliance?
4. What are the security vulnerabilities commonly found in web applications, and what measures can developers take to mitigate these risks?
5. What are the advantages and disadvantages of server-side rendering (SSR) vs. client-side rendering (CSR), and how do they impact web application performance and user experience?
6. What are the emerging trends in web development frameworks and languages, and how do they address the evolving needs of developers and businesses?
7. Can you provide an overview of the fundamental components and protocols that make up the World Wide Web?
8. How does the Domain Name System (DNS) contribute to the functioning of the web, and what role does it play in accessing websites?
9. Could you explain the difference between HTTP and HTTPS protocols, and why HTTPS is increasingly emphasized for web security?

10. What are the primary languages and technologies used in building websites, and how do HTML, CSS, and JavaScript interact to create dynamic web pages?
11. Can you describe the client-server model of web communication and how web browsers and web servers interact to retrieve and display web content?
12. What are the various types of web hosting services available, and what factors should businesses consider when choosing a hosting provider?
13. How does shared hosting differ from dedicated hosting and VPS hosting, and what are the advantages and disadvantages of each?
14. In your opinion, what are the key security considerations for web hosting, and how do hosting providers address these concerns?
15. Could you explain the concept of scalability in web hosting and how cloud hosting differs from traditional hosting models in terms of scalability and flexibility?