
 Date: 11th June 2025

 Name: Sneha Shekhar Kalyankar

 Task Title: Website Optimization for Mobile Devices

 Objective:

To analyze the reasons behind website slowness on mobile phones and explore effective techniques to optimize performance and improve user experience.

Optimization Techniques Identified:

Image Optimization: Use compressed and responsive images (e.g., WebP format).

Minification: Minify CSS, JavaScript, and HTML files to reduce load time.

Lazy Loading: Apply lazy loading for images and videos to delay their loading until needed.

Use of CDN (Content Delivery Network): Reduce latency by delivering content from nearby servers.

Reduce HTTP Requests: Combine files and eliminate unnecessary external scripts.

Responsive Design: Ensure mobile-first design using CSS media queries.

Browser Caching: Store static files locally in users' browsers for faster repeat visits.

Avoid Render-Blocking Resources: Defer loading of non-critical JavaScript and CSS.