Web Performance Optimisation Checklist

Full Metal

Performance Optimisation Areas

1

Front-End Optimisation

- [ ] Images are properly sized, compressed, and in modern formats
- [ ] CSS and JavaScript are minified and compressed
- [ ] Critical CSS is inlined for faster initial rendering
- [ ] JavaScript is code-split and tree-shaken
- [ ] Resources use appropriate cache headers
- [ ] Fonts are optimised and use `font-display` property
- [ ] Third-party scripts are loaded efficiently or deferred

2

Back-End Optimisation

- [ ] Database queries are optimised with proper indexing
- [ ] Effective caching strategy is implemented
- [ ] API responses are optim4ized for size and speed
- [ ] Server response time is under 200ms
- [ ] Appropriate scaling mechanisms are in place
- [ ] CDN is used for serving static assets

3

Architecture

- [ ] Application is designed for horizontal scalability
- [ ] Stateless design enables efficient load balancing
- [ ] Long-running processes are handled asynchronously
- [ ] Microservices (if used) have appropriate boundaries and communication

4

Monitoring & Testing

- [ ] Performance monitoring is in place for the production environment
- [ ] Load testing is performed regularly to identify bottlenecks
- [ ] Real User Monitoring (RUM) data is collected and analysed
- [ ] Performance budgets are established and enforced in the CI/CD pipeline

Use these checklists to systematically optimise front-end resources, back-end operations, architectural design, and implement proper monitoring systems.

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