Testing Protocol Interview Questions

1. What is end-to-end (E2E) testing, and why is it important?

2. How is E2E testing different from unit and integration testing?

3. Which tools are commonly used for E2E testing in frontend (e.g., Cypress, Playwright, Selenium)?

4. What is automated testing, and when should you automate a test?

5. What is test flakiness and how can you reduce it?

6. What is unit testing, and what are its benefits?

7. What is integration testing, and how does it differ from unit testing?

8. What are mocks/stubs/spies, and why are they used in testing?

9. What testing frameworks are commonly used in frontend (e.g., Jest, React Testing Library)?

10. What is code coverage, and how much coverage is considered good?

11. What is A/B testing, and why is it used?

12. How do you determine success in an A/B test (KPIs / metrics)?

13. What is statistical significance, and why is it important in A/B testing?

14. What is performance testing in frontend applications?

15. What metrics or tools do you use to measure performance (e.g., Lighthouse, Core Web Vitals)?

16. How do you identify and fix performance bottlenecks?

17. What is Test-Driven Development (TDD)?

18. Explain the "Red-Green-Refactor" cycle.

19. What are the benefits and challenges of using TDD?