1. List down the assumptions you will be taking for designing the system
2. Important API and corresponding schemas
3. Data Mode – Entities or database table / column names
4. High level components in the system- A diagram depicting the components.
5. Technologies and frameworks used for backend. , database, report generation and UI
6. How will you scale the backend? Capture the design considerations for scaling the system
7. High-Level Design
8. Data Storage Considerations
9. Scalability and Consistency
10. Real-Time Data Processing
11. User Interface & Experience
12. Security Measures
13. Monitoring and Optimization
14. Database Selection
15. Caching
16. Microservices
17. Security
18. API Design
19. AI Design:
20. AI Algorithms
21. Microservices Architecture
22. Queueing System
23. Load Balancer
24. Database Scaling
25. Operational Excellence
26. End to End engineering mindset
27. Customer first mindset and working backwards.
28. Trade off
29. Rationale behind the technology choices
30. Rationale behind the thought process
31. Metrics and SLA
32. Connecting technology to customer problems