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Behavioral Assessment [Focus]

Workplace Scenario Analysis

Scenario:

You've recently joined ABC Tech, a software development company, as a junior developer. As part of your role, you've been assigned to a project team responsible for maintaining and improving the company's website. Today, you encountered performance issues with the website, like

- High server loads during peak hours, slow response times, and intermittent downtimes.
- Slow data retrieval and increased server load due to unoptimized database queries
- Rendering problems and decreased performance on certain browsers

Your team leader has tasked you with troubleshooting and resolving the issue. Your task is to

1. Examine each of these issues and propose potential solutions.

High server loads during peak hours can be resolved by using the compression techniques for the multimedia elements in the website, load balancing techniques and choosing a fast and reliable host server.

2. Break into smaller groups and discuss strategies on what solutions could be rendered for each of the identified issues.

- High Server loads : CDN - Content Delivery network and Load balancing technique
- Slow data retrievals: Query Optimization, Indexing, Caching are the solutions for to reduce the problem
- Rendering problems : Configure the HTTP and cross browser testing [browser stack]

3. Develop an action plan for implementation.

- First we have migrate the local server to Cloud server
- Update the browser the security patches for the browser can be updated and then it will support the new cloud and networks very fast.