**Company : Amazon , Bangalore Location**

**Date : 07/March/2025**

**Interviewer: Aurotria**  
  
**Amazon System Design Interview - Experience and Insights**

## **Interview Flow**

### **1. Interviewer Introduction**

* The interviewer introduced themselves.

### **2. Candidate Introduction**

* I introduced myself, highlighting my technical and non-technical contributions.
* The interviewer was impressed with my non-technical contributions to the C++ community.
* **Tip:** Showcasing your contributions outside of your job role can leave a positive impression.

## **System Design Discussion**

### **3. Initial Question: Experience in System Design**

* The interviewer asked if I had done any system design in my company.
* I shared my experience at my previous company, Light & Wonder, where I primarily fixed bugs and had no major development role.
* Then, I moved on to discussing my current company experience.

### **4. Explaining My Current Work**

* Discussed two applications developed from scratch:
  1. **Auto Update Application** (explained in detail)
  2. **RTSP Streaming Application**
* Explained the high-level working of the **Auto Update Application**.
* The interviewer asked about the technologies used and whether I worked on frontend or backend.
* I clarified that I worked on both frontend and backend.

### **5. Flow Explanation**

* Explained the flow from:
  + Application → Data → Server → User Level
* Highlighted the architecture with a structured hierarchy.
* The interviewer asked if I implemented a normal server or my own server implementation.
* I clarified my approach and explained the differences.

### **6. Handling Existing Applications and Scalability**

* Explained how I would handle an existing application and scale it if I were involved in development.
* Discussed key non-functional requirements:
  + **Availability**
  + **Fault Tolerance**
  + **Vertical Scaling**
  + **Data Sharing**

## **Additional Technical Questions**

### **7. Caching and Its Types**

* The interviewer asked about **caching and its types**.
* I explained caching but could recall only **Least Recently Used (LRU)** at that moment.
* Described where caching is used and its importance.

### **8. Payment Gateway System Design**

* Explained each component of a **payment gateway**.
* The interviewer asked how to handle **failed payments**.
* I explained general strategies but forgot to mention the use of **message queues**, which the interviewer was expecting.
* However, I still explained all related topics effectively.

## **Final Feedback**

* I asked the interviewer for feedback.
* The interviewer mentioned that Amazon does not provide eligibility feedback but allows interviewers to give general feedback.
* Overall, the interview went well, and I clarified my points effectively throughout the discussion.

### **Key Takeaways:**

* Always clarify doubts during the interview to ensure clear communication.
* Showcasing contributions outside of work can leave a strong impression.
* Revising technical terms like caching types and message queues can be helpful.
* While designing systems, focusing on **scalability, availability, and fault tolerance** is crucial.
* Asking for feedback at the end helps understand areas of improvement.