



SYSTEM DESIGN MISTAKES



Jumping Straight into Tech

Mistake 1

 Focus on Technicality

 Talk about the problem

Not Clarifying Requirements

Mistake 2

 **Assume Requirements**

 **Frame the Problem**

Ignoring Trade-Offs

Mistake 3

 "This is faster"

 Provide explanation

Overengineering

Mistake 4

 Spaceship

 Airplane

Forgetting Bottlenecks

Mistake 5

 **Single Point of Failure**

 **Highlight Bottlenecks**

Not Using Diagrams

Mistake 6

 **Talk**

 **Visuals**

No Structure

Mistake 7

 Randomly jump Topics



Framework

Suggested Framework

Tip

- 1. Clarify requirements**
- 2. Estimate scale**
- 3. Define components**
- 4. Show data flow**
- 5. Explain trade-offs**

Recap

Mistakes to Avoid

1. **Jumping Straight into Tech**
2. **Not Clarifying Requirements**
3. **Ignoring Trade-Offs**
4. **Overengineering**
5. **Forgetting Bottlenecks**
6. **Not Using Diagrams**
7. **No Structure**



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