

# **Describe a time you had to make a difficult decision as an engineering manager. (This is an opportunity to showcase your problem-solving skills and decision-making process)**

Absolutely! Here's a situation where I had to make a difficult decision as an engineering manager II:

## **The Challenge**

We were nearing the launch deadline for a critical new feature in our e-commerce platform. The feature was complex, involving integrating with a third-party payment gateway and implementing robust security measures. During a crucial code review, a critical security vulnerability was identified in a core component developed by a talented but relatively new junior engineer, Alex.

## **The Difficulty**

The decision was complex. Fixing the vulnerability would require a significant rewrite of the component, potentially delaying the launch and impacting our marketing campaign. On the other hand, launching with the vulnerability exposed our users to potential risk.

## My Approach

### 1. Gathering Information

- I held separate meetings with Alex, the senior engineer who identified the issue, and key stakeholders (product manager and marketing lead).
- This allowed me to understand the severity of the vulnerability, the potential impact of a delay, and the feasibility of a quick fix.

### 2. Weighing Options

I carefully considered the options:

- **Launch as planned:** This meant accepting the security risk and potentially damaging user trust if the vulnerability was exploited.
- **Delay launch and fix the vulnerability:** This avoided the security risk but could cause marketing and sales disruptions.
- **Explore a partial launch:** This involved launching with a limited feature set that didn't expose the vulnerable component.

### 3. Prioritizing Security

While the launch delay was undesirable, prioritizing user security was paramount. The potential consequences of a security breach were too significant to risk.

### 4. Communication and Collaboration

- **Meeting with Alex:**
  - I met with Alex to explain the situation and the importance of fixing the vulnerability. We discussed potential solutions and I assured him of my support.
- **Team Meeting:**
  - I convened a team meeting to announce the launch delay and explain the rationale behind the decision.

- I ensured everyone understood the security risk and appreciated the team's flexibility.
- **Collaboration on a Fix:**
  - We collaborated as a team to develop a solution. Alex, with guidance from senior engineers, worked on fixing the vulnerability, while others focused on optimizing other parts of the feature to minimize the launch delay.

## Outcome

- The launch was delayed by a week, but the critical security vulnerability was addressed.
- The team rallied together to deliver a secure and functional product.
- Alex's confidence grew as he received mentorship and successfully resolved the issue.
- The short delay was communicated transparently to stakeholders, and overall, the launch was a success.

## Key Learnings

This experience highlighted the importance of:

- **Prioritizing user security.**
- **Open and transparent communication with the team and stakeholders.**
- **Collaboration and fostering a supportive team environment.**
- **Learning from challenges and empowering team members to grow.**

By prioritizing security, communicating effectively, and leveraging the team's strengths, I was able to navigate a difficult decision and achieve a positive outcome for the project and the team.