Please describe a scenario where you used React to solve a problem and how you overcame any challenges you faced.

structure your response using the **STAR method (Situation, Task, Action, Result)**. Here’s a strong example based on your experience:

**Scenario: Handling API Errors Gracefully in a Next.js App**

**1. Situation:**

In my previous project, I was working on a **Next.js application** where a button click triggered an **API call**. Based on the response, the app either **navigated to the next page** or displayed an **error page**. However, there was an issue—if the API failed, the app would crash instead of showing the error page properly.

**2. Task:**

My goal was to handle errors effectively so that users would see a proper error message instead of a broken page. Additionally, I needed to ensure that the **loading state** was properly managed so users wouldn’t experience a blank screen.

**3. Action:**

To fix this, I:  
✅ Implemented an **error boundary** in Next.js using error.tsx.  
✅ Used try...catch inside the **useEffect hook** to handle API failures.  
✅ Ensured that the **loading state** was displayed correctly using loading.js in Next.js.  
✅ Logged errors for debugging while ensuring users saw a user-friendly message.

Here’s a simplified version of the solution:

jsx

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useEffect(() => {

const fetchData = async () => {

try {

const response = await fetch('/api/data');

if (!response.ok) throw new Error("Failed to fetch data");

setData(await response.json());

} catch (error) {

router.push('/error'); // Redirect to error page

}

};

fetchData();

}, []);

**4. Result:**

🚀 The solution **prevented crashes** and ensured that users were gracefully redirected to the error page if the API failed.  
🚀 Improved **user experience**, as they no longer saw an empty or broken screen.  
🚀 Helped in **debugging** by logging API failures properly.

**How to Tweak This Answer for Your Experience?**

* Pick a **React problem you solved** (e.g., performance optimization, state management, API handling).
* Show **how you approached the challenge** and what steps you took.
* Emphasize **results**—how it improved the app or user experience.

Would you like help refining an example based on your current project? 😊