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### **Challenges and Solutions in Project Development**

- During the project development process, I faced several significant challenges. A major issue was managing the context of conversations over extended interactions. Initially, the chatbot struggled to retain context, leading to irrelevant or incorrect responses. To address this, I implemented session-based storage, which effectively tracked and managed conversation context.
- These projects not only enhanced my understanding of chatbot functionalities but also honed my problem-solving skills. Additionally, they provided invaluable experience in backend integration, ensuring accurate and up-to-date responses.
- An advanced and unique idea to utilize these concepts is to develop a mental health support chatbot. This chatbot could provide real-time emotional support, track user mood over time, and offer personalized self-care recommendations. Leveraging AI to recognize patterns, it could suggest professional help when needed, making a meaningful impact in the realm of mental health care.