

# **Developing an Android application for meal management integrated with AI consultation**

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**Abstract:** In the context of an increasing number of people paying attention to health and the quality of daily meals, this topic focuses on developing an Android mobile application to manage meals according to individual requirements. The topic selection is based on the practical need for intelligent nutritional consultation features integrated into the application. The main objective is to build a system that provides dietary advice while optimizing user experience by utilizing artificial intelligence (AI) technology. The research methodology includes both theoretical and experimental aspects, thereby evaluating the effectiveness of AI models in nutritional consultation. The topic is expected to make significant contributions to the field of health management through the application of modern technology.

**Keywords:** Android application, Meal management, Nutritional consultation, Artificial intelligence, Health management system