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## 基于 JAVA 的互动课堂教学系统的设计与实现

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## 摘 要

当前我国高等院校的课堂教学活动中，教学工作者和学生缺乏有效互动，从而对教学成效造成了极大影响。而课堂互动技术的发展和应用，为师生之间的互动交流提供了技术支持。根据当前教学工作者课堂讲解主要以 PPT 课件方式进行，加上安卓智能手机在学生中应用较为广泛的情况，本文研发了一款基于互动理论的课堂教学系统，以提升课堂教学互动水平。本文对当前课堂互动技术应用、发展进行了调查研究，并设计了基于教学工作者使用的 WEB 端和学生使用的 APP 在线技术的教学互动模型。在本次设计中，根据课堂教学所需，设计了教学工作者 web 端和学生 app 端的功能模块。同时，就如何通过 JAVA 技术、Android 技术，实现对 WEB 端的课件、学生 APP 端的查询和解答管理也进行了研究。最后，将本次设计的课堂教学系统，应用到课堂教学中，并验证了其成效，认为该系统能够有效提升课堂教学效率。

**关键词：**课堂教学系统；课堂互动技术；WEB 端；APP 端；JAVA

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## ABSTRACT

At present, in the classroom teaching activities of colleges and universities in China, there is a lack of effective interaction between teaching staff and students, which has a great impact on teaching effectiveness. The development and application of classroom interaction technology provides technical support for the interaction between teachers and students. According to the current situation that the teaching staff mainly use ppt courseware in class, and Android smart phones are widely used among students, this paper develops a classroom teaching system based on interaction theory to improve the interactive level of classroom teaching. This paper investigates the application and development of classroom interaction technology, and designs a teaching interaction model based on the Web terminal used by teaching staff and the app online technology used by students. In this design, according to the needs of classroom teaching, the function modules of teaching staff web end and student app end are designed. At the same time, how to use Java technology and Android technology to realize the query and answer management of web courseware and student app is also studied. Finally, the design of classroom teaching system, applied to classroom teaching activities, and verify its effectiveness, that the system can effectively improve the efficiency of classroom teaching.

**Keywords: classroom teaching system; classroom interaction technology; WEB end; APP end; JAVA end**

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