
基于 Java Web 的题库管理系统设计

摘 要

自 21 世纪以来，随着信息技术的不断发展与普及，我们迎来了一个信息全球化的时代。计算机的发展早已深入到各行各业当中，各个高校的命题老师也发现他们需要一个题库管理系统来帮助他们进行教学相关活动，因此基于互联网的题库管理系统在各个高校加速发展。

题库管理在教学管理中起着非常重要的作用。传统试卷的出题十分麻烦，需要耗费大量的出题时间和精力；对于出卷老师来说，出一张试卷的工作量大；存在较多的人为因素；管理和修改起来麻烦；不方便保存。针对上述诸多不足，开发了基于 Java Web 的题库管理系统。本系统解决了题库管理的一系列问题，具有灵活、方便、高效等特点，大大提升了老师的出题效率。系统的主要子模块由用户管理模块、试题管理模块、试卷管理模块、成绩信息管理模块和修改密码模块组成，其中试题管理和试卷管理是核心模块。

该系统采用了当前流行的 JSP 和 JavaScript 技术、MySQL 数据库技术和 Tomcat 应用服务器。其中数据库主要用于存储后端数据，JSP 作为客户端界面的开发技术，Tomcat 作为 Web 服务器，Web 服务器负责响应客户端发来的请求并发出响应，不仅实现了广泛信息的共享同时也实现了界面的统一。

关键词：JSP 数据库 题库管理系统 组卷

ABSTRACT

Since the 21st century, with the continuous development and popularization of information technology, we have ushered in an era of information globalization. The development of computer has already penetrated into all walks of life, and the proposition teachers in various colleges and universities also found that they need a question bank management system to help them with teaching related activities, so the Internet-based question bank management system has accelerated its development in various colleges and universities.

Item bank management plays a very important role in teaching management. The traditional test paper is very troublesome, which needs a lot of time and energy; for the teacher, the workload is large; there are many human factors; management and modification are troublesome; it is not convenient to save. In view of the above shortcomings, a Java web-based item bank management system is developed. The system solves a series of problems in the management of question bank, which has the characteristics of flexibility, convenience and efficiency, and greatly improves the efficiency of the teacher. The main sub modules of the system are composed of user management module, test management module, test paper management module, score information management module and password modification module, of which test paper management and test paper management are the core modules.

The system adopts the current popular JSP and javascript technology, MySQL database technology and Tomcat application server. Among them, database is mainly used to store back-end data, JSP is the development technology of client interface, Tomcat is the web server, the web server is responsible for responding to the request sent by the client and sending the response, which not only realizes the sharing of extensive information, but also realizes the unification of the interface.

Key words: JSP; Database; Test Management System; Test paper generation

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