
基于 SSH 的高校实验室智能管理系统的设计与实现

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摘 要

当今世界互联网出现高速发展的契机，带动了信息化的进步，网络管理手段也慢慢的融入到了实际的生活之中。现今，软件开发的手段有很多，其中 SSH 框架就是当下不论在校内还是企业中，都比较流行的开发技术。当然，这些开发技术也在跟随着信息化的发展在进行不断地自我更新。目前，在国内，各大高校慢慢的都开始研发属于自己的高校实验室管理系统，不过，由于对信息化管理的认识不足，日常工作中还是人工管理占比重较大，信息管理渐渐满足不了实际管理需求。因此，可以看出信息化管理技术对实验室管理十分重要。本文就是意在设计一套基于 SSH 框架的信息化的高校实验室智能管理系统，用来代替现在的人工管理模式。本系统包括实验器材数据的录入和审核、实验室借用管理、公告管理及一些其他功能支撑模块等。对开发过程中使用的分层开发模式和 MVC 模式进行分析，借助栈实现深度优先遍历算法对数据菜单进行设计，从整体架构、页面交互、核心功能等方面对高校实验室智能管理系统进行设计与实现。

关键词：高校实验室管理系统；SSH 框架；分层开发模式；深度优先遍历算法

ABSTRACT

The rapid development of the Internet in the world has led to the progress of information technology, and the means of network management have been gradually integrated into the actual life. Nowadays, there are many means of software development, among which SSH framework is a popular development technology in both schools and enterprises. Of course, these development technologies are constantly updating themselves with the development of information technology. At present, in our country, all universities begin to develop their own laboratory management system. However, due to the lack of understanding of information management, the daily work is still dominated by manual management, and the information management gradually can not meet the actual management needs. Therefore, it can be seen that information management technology is very important for laboratory management. The purpose of this paper is to design a set of intelligent laboratory management system based on SSH framework, which can replace the current artificial management mode. This system includes the input and audit of experimental equipment data, laboratory borrowing management, announcement management and some other functional support modules. This paper analyzes the hierarchical development mode and MVC mode used in the development process, designs the data menu with the help of the stack realization depth first traversal algorithm, and designs and realizes the intelligent management system of university laboratory from the aspects of overall architecture, page interaction, core functions, etc.

Key words: University laboratory management system; SSH framework; Layered development mode; Depth first traversal algorithm

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