基于 **Java** 的校园在线学习平台的设计与实现

摘　要

在互联网高速发展的今天，当今社会已然是一个数字化、信息化、互联网化的社会，互联网已经经济、医疗、教育、日常生活等各个领域发挥着重要作用。现如今在教育领域，特别是高校教育，传统的教学方式在面对日益多元化的知识需求开始显现弊端，利用互联网的优势来弥补传统教育的缺陷具有现实意义。

本文设计并实现了校园线上教学学习平台，选择适合在线学习的课程内容，通过录制课程视频并上传到平台供学生学习。平台具有的文件上传和下载功能，可以让老师通过此功能上传课程的相关学习资料和课程作业，学生通过平台下载资料辅助学习。同时，该平台还具有发布帖子的类似论坛的功能，学生间和师生间可以通过此功能对学习内容进行讨论和问题答疑。

学习平台采用 eclipse 作为开发工具，使用 SSM（spring+springMVC+mybatis）框架，结合 MySQL 数据库进行数据存储。平台实现的网上教学的方式具有跨时间、跨地域以及自由程度高等特点，使得学生可以根据自己的实际情况和兴趣所在来选择自己的学习内容，同时可以让老师很大程度地减少重复的工作，提高效率。

关键词：线上学习平台；SSM 框架；MySQL 数据库

ABSTRACT

With the rapid development of the Internet, today's society is already a digital, information-based and Internet-based society. The Internet has played an important role in economy, medical care, education, daily life and other fields. Nowadays, in the field of education, especially in higher education, the traditional teaching methods begin to show disadvantages in the face of increasingly diversified knowledge needs. It is of practical significance to make use of the advantages of the Internet to make up for the defects of traditional education.

This paper designs and implements the campus online teaching and learning platform, selects the course content suitable for online learning, records the course video and uploads it to the platform for students to learn. The platform has the function of file upload and download, which allows teachers to upload relevant learning materials and course assignments, and students download materials to assist learning through the platform. At the same time, the platform also has the function of posting similar to the forum, through which students and teachers and students can discuss the learning content and answer questions.

The learning platform uses eclipse as the development tool, SSM (Spring + spring MVC + mybatis) framework, combined with MySQL database for data storage. The online teaching method realized by the platform has the characteristics of cross time, cross region and high degree of freedom, which enables students to choose their own learning content according to their actual situation and interests, and at the same time, it can greatly reduce the repeated work of teachers and improve the efficiency.

Key words: Online learning platform; SSM framework; MySQL database

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