

基于 Android + Java 的视频软件开发与实现

[摘要] 在 21 世纪信息技术飞速发展的今天，由于工业发展较好使得智能移动设备硬件制造水平逐年提升，也使得手机端 app 的发展越来越快，系统迭代更新的速率也越来越频繁。随着社会发展，软件数量增加，但不同平台的软件兼容性差，操作不便，这已经不能满足人们对移动终端软件的需求，需要有一个独立于移动终端操作系统并且可以广泛适用的开发平台。在这种背景下，Google 公司旗下的 Android 平台应运而生，由于其开源的策略和兼容性广的特性，基于它平台下开发的软件和系统日渐增多，使其快速发展壮大。

Android 开发平台以其高度开源性，占有移动设备市场大量的份额 Error! Reference source not found.。尤其在中国市场上更是高达 90% Error! Reference source not found.，用户数量庞大，使得 Android 开发平台的发展持续充满着活力。本课题根据市场上操作便捷，运行流畅的需求，以用户需求为对象利用 Android Studio 开发工具和 Java 语言进行开发和设计研究，实现视频软件播放/暂停，视频播放选择，上一部/下一部切换，音量调节的功能实现，为相关课题的设计与开发提供一定的参考依据。

[关键字] Android 开发平台 Android Studio 移动手机视频软件

Development and implementation of video software based on Android + Java

Abstract Today, with the rapid development of information technology in the 21st century, due to the good industrial development, the hardware manufacturing level of intelligent mobile devices is improved year by year, and the development of mobile app is also faster and faster, and the rate of system iterative updating is also more and more frequent. With the development of society, the number of software is increasing, but the software compatibility of different platforms is poor and the operation is inconvenient, which can no longer meet people's demand for mobile terminal software. Therefore, it is necessary to have a development platform independent of mobile terminal operating system and widely applicable. Against this background, Google's Android platform emerges as The Times require. Due to its open source strategy and wide compatibility, more and more software and systems are developed on the platform, making it grow rapidly.

The Android development platform occupies a large share of the mobile device market due to its highly open source nature. Especially in the large number of users, the development of Android development platform continues to be full of vitality. Based on the needs of convenient operation and smooth operation in the market, this project uses Android Studio development tools and Java language as the object for development and design research, realize the functions of video software play/pause, video play selection, last/next switch, and volume adjustment. It provides some references for the design and development of related subjects.

KeyWords Android development Platform Android Studio Mobile phone video software

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