基于 Android 平台音乐播放器的设计与实现

摘 要

在社会生活紧张的今天，欣赏音乐成了学习工作之余最好的舒缓压力的方式之一，一款界面清新，操作简单的音乐播放器更受青睐。Android 作为开源的系统，本身就可以在一个相对良好的环境下进行开发，并且有着多种多样丰富的用户体验，这些特点对于应用程序开发人员来说有着无穷的吸引力。为此，本文对 Android 平台音乐播放器的设计和应用，作了详细的阐述。

首先，介绍了该课题的背景意义以及国内外音乐播放器的发展现状。其次，介绍了一些相关的安卓知识。接着，通过系统功能需求分析、系统界面需求分析、系统性能需求分析这三方面阐明了实现该系统的必要性。又通过系统功能结构图、结构表和实现该系统的流程图来说明各个模块的功能，并介绍数据存储方式。然后介绍了音乐播放模块的具体实现，介绍了音乐播放主界面以及播放列表界面的代码实现。重点展示了该系统的播放、暂停、停止、上一首、下一首、快进、快退、以及播放模式转换等功能。最后进行了全面的总结，包括研究工作中的心得体会，从中得到的收获与不足。指出了今后工作中应继续深入研究的方面。

关键词：音乐播放器；手机应用；Android；Eclipse；开源系统

ABSTRACT

Today, in a busy social life, enjoying music has become one of the best ways to relieve stress while studying and working. A music player with a new interface and simple operation is preferable. Therefore, in this article, the development of the Android platform and music player application has been described in detail.

First of all, this article presents the meaning and background of the current situation in the development of this topic and the music player in the country and abroad. Second, it presents relevant knowledge about Android. Then, through the system function requirements analysis, system requirements analysis, system performance requirements analysis These three aspects highlight the need for system implementation, and through the System function structure, structure table and implementation flowchart to illustrate the function of each module in the system and represent storage data. Later, music playback was introduced, the main interface of the music playback module was introduced, and the implementation of the playlist interface code. It mainly shows play, pause, stop and poem, fast forward, rewind and convert play mode, as well as other functions. Finally, the document provides a comprehensive summary of the core work, including research tips, pros and cons, as well as suggested and extra improvements.

Keywords: music player; mobile application ;Android; Eclipse; open source system

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