

**毕业论文(设计)**

**题目名称： 家政服务小程序的设计与实现**

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**社区养老服务微信小程序开发**

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【摘要】随着我国老龄化进程的加速，社区养老服务的需求日益增长。传统的养老服务模式存在信息不及时、服务效率低等问题，难以满足老年人多样化的需求。开发社区养老微信小程序，旨在整合社区养老资源，为老年人及其家属提供便捷、高效、个性化的养老服务，具有重要的现实意义。一方面，它能提高养老服务的质量和效率，让老年人享受更优质的生活；另一方面，有助于社区养老服务的信息化和智能化发展，推动养老服务行业的进步。

本系统采用了Spring Boot框架搭建后端服务，结合MyBatis-Plus进行数据库操作，使用Ehcache作为缓存技术提升系统性能，前端则基于微信小程序开发框架实现，在小程序端使用Layui组件。系统具备用户端和管理员端两个主要部分。用户端实现了注册登录、养老服务展示、服务预约、线上咨询、一键呼救、资讯推荐、健康档案管理和活动评论等功能；管理员端涵盖一键呼救地图展示、社区活动管理、健康档案管理、服务管理、预约管理、权限管理、用户管理、问诊管理以及数据可视化分析等功能。其中，资讯推荐使用协同过滤推荐算法，实现个性化的资讯推送；数据可视化分析采用Echarts工具，直观呈现平台数据。开发过程中的难点在于系统的安全性保障和将多种养老服务功能集成于微信小程序，重点是功能的完整性和用户体验的提升。

本社区养老微信小程序基本达到了预期的开发要求，为社区养老服务提供了一个便捷、高效的信息化平台。通过整合各类养老服务资源，实现了服务的在线预约、咨询和管理，提高了服务效率和质量。同时，个性化的资讯推荐和数据可视化分析功能，为用户提供了更好的服务体验。但在一些细节方面仍存在欠缺，比如存在个性化设计的缺陷，同时存在预约信息展示的不充分等问题。

【关键词】社区养老服务；微信小程序；Spring Boot；MySQL；Shiro

Development of WeChat Mini Program for Community Elderly Care Services

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[Abstract] With the acceleration of China's aging process, the demand for community elderly care services is increasing day by day. The traditional elderly care service model has problems such as untimely information and low service efficiency, making it difficult to meet the diverse needs of the elderly. The development of a community elderly care WeChat mini program aims to integrate community elderly care resources and provide convenient, efficient, and personalized elderly care services for the elderly and their families, which has important practical significance. On the one hand, it can improve the quality and efficiency of elderly care services, allowing the elderly to enjoy a better quality of life; On the other hand, it contributes to the informatization and intelligence development of community elderly care services, promoting the progress of the elderly care service industry.

This system uses the Spring Boot framework to build backend services, combined with MyBatis Plus for database operations, and uses Ehcache as caching technology to improve system performance. The frontend is implemented based on the WeChat mini program development framework, using Layui components on the mini program side. The system consists of two main parts: the user end and the administrator end. The user end has implemented functions such as registration and login, display of elderly care services, service appointment, online consultation, one click call for help, information recommendation, health record management, and activity comments; The administrator side covers functions such as one click distress map display, community activity management, health record management, service management, appointment management, permission management, user management, consultation management, and data visualization analysis. Among them, information recommendation uses collaborative filtering recommendation algorithms to achieve personalized information push; The data visualization analysis adopts Echarts tool to visually present platform data. The difficulty in the development process lies in ensuring the security of the system and integrating various elderly care service functions into WeChat mini programs, with a focus on improving the completeness of functions and enhancing user experience.

The WeChat mini program for elderly care in this community has basically met the expected development requirements, providing a convenient and efficient information platform for community elderly care services. By integrating various elderly care service resources, online appointment, consultation, and management of services have been achieved, improving service efficiency and quality. At the same time, personalized information recommendations and data visualization analysis functions provide users with a better service experience. However, there are still shortcomings in some details, such as deficiencies in personalized design and insufficient display of appointment information.

[Keywords] Community elderly care services; WeChat Mini Program; Spring Boot; MySQL; Shiro

# 引言

选题背景及意义

国内外现状分析

论文工作内容

论文组织结构