
基于 SSM 框架的智能停车管理系统的设计与实现

摘 要：根据当代建筑设计规范，现代的大型建筑物，一定要设置汽车停车场来满足交通组织需要，保证车辆安全，方便公众使用，通过设置地下停车场，一是为了地面有足够的绿化面积与道路面积，同时保证提供规定数量的停车位。也能方便管理员更有效的管理整个停车场的情况，更方便的进行数据的采集、统计与分析。

本课题设计与实现一个停车管理系统。本系统主要设计采用的是 SSM 框架，数据库采用的是 mysql+Redis 关系数据库，前端部分内容采用了 Echarts 和 bootstrap 显示，主要实现了 1.停车管理模块，用于显示每个车位号的情况，显示当前车位号状态，以及入库、出库和违规等操作。2.停车卡管理模块，可以实现根据卡号查询停车卡、添加停车卡、充值停车卡、修改停车卡和删除停车卡等操作。每个停车卡都对应一个用户。3.优惠券管理模块，能够自动生成优惠券来优惠、查看优惠券以及删除优惠券操作。4.邮箱管理模块，用户可以使用这个模块来实时反馈他所想知道的内容，用户发送邮件，管理员可以查看邮件并且回复邮件内容。5.违规管理模块，如果停车违规，管理员可以在停车管理模块处添加违规，也可以直接在违规管理页面添加违规。6.收入管理模块，可以查询某段时间内的收入情况，收入方式，还能进行收入分析。7.用户管理模块，可以修改性别，联系电话等个人信息。8 历史停车模块，可以查看所有停车历史。9.导出功能，可以导出规定时间段内收入情况，下载为 Excel 表格形式查看。

关键词： 停车管理；SSM 框架；车位管理；

Design and Implementation of Intelligent Parking Management System Based on SSM Framework

Abstract: According to the code of contemporary architectural design, modern large buildings must be equipped with car parking lot to meet the needs of traffic organization, ensure the safety of vehicles, and facilitate the use of the public. By setting up underground parking lot, one is to ensure that the ground has enough green area and road area, and at the same time ensure to provide a specified number of parking spaces. It is also convenient for the administrator to manage the whole parking lot more effectively, and more convenient for data collection, statistics and analysis.

This paper designs and implements a parking management system. The main design of the system is the SSM framework, the database is MySQL + redis relational database, part of the content is displayed by echarts and bootstrap, mainly implemented 1. Parking management module, used to display the situation of each parking lot number, display the current status of parking lot number, as well as the operation of warehousing, outbound and violations. 2. The parking card management module can query the parking card according to the card number, add the parking card, recharge the parking card, modify the parking card and delete the parking card. Each parking card corresponds to one user. 3. Preferential volume management module can automatically generate preferential volume to offer, view preferential volume and delete preferential volume. 4. Mailbox management module. Users can use this module to feed back what they want to know in real time. When users send emails, administrators can view the emails and reply to them. 5. Violation management module. If there is a parking violation, the administrator can add the violation in the parking management module, or directly add the violation in the violation management page. 6. The revenue management module can query the revenue situation, revenue mode and revenue analysis in a certain period of time. 7. User management module, which can modify personal information such as gender, contact number, etc. 8 historical parking module, which can view all parking history. 9. Export function, which can export the revenue situation within the specified time period and download it to excel form for viewing.

Key words: Parking management; SSM framework; parking space management;

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