五 邑 大 学

毕业设计说明书

**毕业设计题目：基于node + vue的智慧化个人博客设计与实现**

**学院（部） 智能制造学部**

**专 业 通信工程**

**学 号 3118001776**

**学生姓名 林浩裕**

**指导教师 黄隽**

**完成日期 2022年5月21日**

**五邑大学教务处制**

**摘要**

在网络社交快速发展及多样性的今天，博客是一种新兴、轻量的学术和生活交流网络平台，也是分享经验和总结技术的方式之一。为了打造个人博客，网上有很多搭建方法，其中有开源博客软件，包括WordPress、Ghost、Hexo等等，对于喜欢动手DIY的程序员来说，自己动手写代码搭建符合自己口味的博客，这样会觉得更加舒心。本项目采用前端前沿技术nodeJS的web框架koa2和vue来实现，Koa使用了async 函数，舍弃了传统的回调函数，有力加强了代码发生错误的处理。没有绑扎任何中间件，给人一种干净利落的感觉，体积小、编程方式清爽。而且Node.js是事件驱动，采用非阻塞I/O模型，轻量、高效。Vue.js 是MVVM 架构的最佳实践，是一个JavaScript MVVM库，是一套构建用户界面的渐进式框架。专注于 MVVM 中的 View Model，做到了数据双向绑定，是一款相对比较轻量的JS 库，API 简洁。Mysql 关系型数据库、sql server数据库、和 MongoDB数据库，由于MySQL 数据库体积小、速度快、总体拥有成本低、开放源代码,其有着广泛的应用,一般中小型网站的开发都选择 MySQL 作为网站数据库。由于其社区版的性能卓越,因此搭配web服务器可组成良好的开发环境。所以本博客系统采用Mysql作为存储。

文章对国内外的博客现状进行简要的解析和介绍，根据博客现状的情况及发展趋势提出本课题的研究内容和价值作用。目的构建交互出色的人性化界面，博客系统采用koa.js为 Node.js的Web Framework，采用基于 B/S 的 MVVM 结构的Web应用系统。系统包括文章模块、数据模块、游客模块、用户模块和评论模块。文章模块主要功能是文章的编辑发布，数据模块用于统计文章的数据信息，游客模块用于浏览博主发布的全部文章，用户模块用于博主登录系统，以及用户浏览文章后对文章的评论的模块。

关键字：博客系统，Node.js ,koa2.js, Vue, Mysql, MVVM,

Abstract

With the rapid development and diversity of social networking today, blog is an emerging, lightweight academic and life communication network platform, and one of the ways to share experience and summarize technology. In order to create a personal blog, there are many ways to build a blog on the Internet, including open source blog software, including WordPress, Ghost, Hexo, etc. For programmers who like to do DIY, they will feel that writing code to build a blog that suits their own tastes by themselves. more comfortable. This project uses the front-end front-end technology nodeJS web frameworks koa2 and vue to implement, Koa uses the async function, abandons the traditional callback function, and effectively strengthens the handling of code errors. Without binding any middleware, it gives a clean and neat feeling, small size and refreshing programming method. Moreover, Node.js is event-driven and adopts a non-blocking I/O model, which is lightweight and efficient. Vue.js is a best-practice MVVM architecture, a JavaScript MVVM library, and a progressive framework for building user interfaces. Focusing on the View Model in MVVM, it has achieved two-way data binding. It is a relatively lightweight JS library with a concise API. Mysql relational database, sql server database, and MongoDB database, because of its small size, high speed, low total cost of ownership, and open source code, MySQL database has a wide range of applications. Generally, the development of small and medium-sized websites chooses MySQL as the website database. Due to the excellent performance of its community edition, it can form a good development environment with a web server. So this blog system uses Mysql as storage.

The article briefly analyzes and introduces the current situation of blogging at home and abroad, and proposes the research content and value function of this topic according to the current situation and development trend of blogging. The purpose is to build a user-friendly interface with excellent interaction. The blog system adopts koa.js as the Web Framework of Node.js, and adopts the Web application system of MVVM structure based on B/S. The system includes article module, data module, visitor module, user module and comment module. The main function of the article module is to edit and publish articles, the data module is used to count the data information of the article, the visitor module is used to browse all articles published by bloggers, the user module is used to log in to the system for bloggers, and users’ comments on articles after browsing the articles module.

Keywords: blog system, Node.js, koa2.js, Vue, Mysql, MVVM