摘要

PHP（全称Hypertext Processor）自开发以来得到了很快速的发展，作为当前使用最广泛的网络应用编程语言，开发人员可以用PHP开发出不同种类不同规模的网络应用程序，如个人网站、内容管理系统、社区网络平台以及商务网站等等。除了强大的数据库支持、Session跟踪、动态类型支持以及面向对象，一个需要提到的是PHP对HTML可嵌入性。然而，尽管这是一个对小项目开发值得提倡的特性，但是，随着用PHP开发的项目规模越来越大，软件构架师希望将逻辑与页面尽可能的分离，而PHP的可嵌入性反而成为实现低成本、高效开发和容易维护的软件工程思想的阻碍。尤其是对于那些敏捷开发人员，为了实现好的设计，高的代码质量以及对欢迎变化，PHP的可嵌入性可谓之噩梦。所以，通过学习和研究，具有MVC模式的框架可以用来解决这个问题，因为MVC可以将模型层、控制器层以及视图层完美的进行分离和封装。

SensiblePHP是这篇论文中开发的一个PHP的MVC框架，该框架轻量但不简单、敏捷但不易碎、强大但不复杂。此外，为了从理论和实践的角度验证SensiblePHP框架，开发了一套人力资源管理系统。

关键词：PHP，MVC，敏捷开发，设计模式，网络应用

**Abstract**

PHP, which is short for Hypertext Processor, has been developed rapidly since initial implementation. As the most popular programming language for web applications, developers can use PHP to develop all sorts of web applications of different scales, like personal website, content management system, social network platform, business-to-business website, etc. In addition to powerful database support, session tracking, dynamic type language and objected-oriented features, another notable characteristic is that PHP can be embedded directly into HTML statements. Even though it’s an important feature for those small scale website developers, however, as the scale of PHP project becomes to enterprise level, software architectures try to apply software engineering theory to separate the business logic, database operations from user interface, the embeddability feature of PHP becomes a weakness for those who want to achieve low cost, high efficiency and easy maintenance, even for those agile developers focus on good design, high code quality and responding to change. So after the study and research, framework with MVC pattern, which separates and encapsulates the model layer, controller layer and view layer, can be a simple way to solve this issue.

SensiblePHP, yet another PHP MVC framework, has been designed and implemented in this thesis. This framework is lightweight but not simple, agile but not fragile, powerful but not complicated. Furthermore, this thesis developed a human recourse management system based on SensiblePHP framework to prove the feasibility for not only theory but also practice.

**Keywords**：PHP, MVC, Agile Development, Design Pattern, Web Applications

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