

**毕业设计外文资料翻译**

**题 目**  基于.NET的毕业设计选题系统

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二〇一 年 月 日

**Development of Management System in Graduation Practice Process Based on Web**

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**Abstract**

Traditional management of graduation practice process is trivial and complicated as much time is spent in data checking and materials examination and approval by people. We have independently developed a management system in graduation practice based on the NET framework in order to make our graduation practice process more open, fairer and safer, also to provide convenient, scientific and reasonable management methods such as plan, managing communication and evaluation to guide teachers and manage the personnel. In this paper, how to improve management of the graduation practice process through network tools which is mainly discussed.

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Key words: Net framework; graduation practice process; management system

# 1. Introduction

The graduation practice is an important part of plan for talents education in the higher vocational institutes, it is the comprehensive application and test of knowledge acquired during the period of study in higher vocational school, also an important practical teaching stage to cultivate students’ abilities of innovation and practice as well as enterprising spirit. Meanwhile, what’s more, it is the important teaching stage for students to be cultivated and inspected upon their abilities of integrating theory with practice and solving practical problems after analysis in an all-round way, and the important aspect of measuring and inspecting teaching quality. Therefore, it has already become a problem badly in need of research and solving to improve scientific management during the graduation practice, to establish a sound quality monitoring and control system and to develop an effective quality assessment system so as to improve the overall quality of the graduation practice process in an all-round way.

# 2. General Structure of the System

This system includes the entire process of the management for graduation design and graduation practice. With the system, teachers can not only easily collect all materials in the process of graduation practice through network, but also monitor students in a fixed time. They can also acquire the situation of student’s graduation design and practice by limiting time deadline of files uploading. Therefore, the system provides guarantee to make real time and site specific checks for mentor teachers.

## 2.1 Design of system users

The user roles of the system are divided into three types: query user, data manager and system manager Operational privileges are divided into four types: data query privilege, data analysisprivilege, data report privilege and data management privilege The system requires all users do the operations under authorizedprivilege. Only the system manager has the privilegeof user management and system configuration. The involved users include the system manager, graduation design managers (they comes from different teaching-research offices, departments and administration offices of schools), graduation design supervisors, examining teachers of graduation thesis and assessment, graduation design students, practice managers (they comes from different teaching-research offices, departments and administration offices of schools), practice supervisors and practice students.

## 2.2 Design of Functionalities

The system can provide the following functions: Qualification examination of supervisors and students, thesis setting, topic selection, task arrangement, thesisproposal, student’s logs submission, mid-term inspection table of teachers and students, submission of thesis and oral defense materials, grade examination and approval, data filing and summarizing, all of which are provided in the process of graduation design. Qualification examination of supervisors (enclosed with copies of teacher’s ID card, title, academic certificate and degree certificate), assessment of practicing units, supervision of student’s practice status, submission of practice weekly reports and practice summary are provided in the process of graduation practice. In addition, the system provides BBS system for the faculty and students to have discussions on academics and scientific research.

## 2.3 Interface design

CSS (Cascading Style Sheet) is used to decide styles of websites, and makes the different web pages display same background colors, same word size and the same input style. According to CSS style rules, with the use of forms, ranges ruled by cascading style sheet are different for both a website and a HTML tag. CSS files would be used to unify the style of a website. Internal documents can be used to complete the work of specifying the style of some web page according to cascading style sheet. Inline style definitions should be used to make special style rules of some HTML tags. The three modes of existence make the whole website distinctive and changeable based on specified styles. Moreover, the two opposites in the contradiction of change and unity are combined together judiciously. Style. css of Cascading style sheet is established in the management system of the entire graduation practice process to specify the default displaying style of all HTML tags on the webpage in details. For those HTML tags with special display requirement, inline is used to meet the special requirements. Styles of the system interface are unified with organic combination of these two modes.

## 2.4 Design of database

Management system database during the graduation practice, checking lists of in-post practice, score tables of in-post practice checking, evaluation items list of in-post practice, announcement list, a list of students, a list of teachers, file list, list of supervisors outside the school, graduation design scoring, a list of scoring results, relational tables of scoring, violation list, options list, etc. are included.

# 3. Key Technologies in the System Application

The system adopts a multi-tier structure based on Web browser/server (B/S) with advantages of good usability, strong flexibility and high reliability. It is completely compatible with Windows operating system so that it is convenient for teachers and students to use the client working by IE browser inherent on Windows. 3.1 This management focusing on authority management and personalized setting has enhanced efficiency. By role, users can be divided into the system manager, the office of academic affairs, the department, the teaching and researching office, teachers and students. Different roles have different permission authorities. For example, students have the permission to mainly operate the two system functions of checking announcements and submitting files for students who mainly undergo reading and filling of relevant files in the graduation in-post practice. 3.2 Dynamic distribution of the key data is achieved in the system through developing Web service to ensure of promptness and uniformity. A Web service is programmable application logic with application Web protocol (for example SOAP). On the surface, a Web service may be regarded as the application to provide a component for the exterior to make remote procedure calls through Web. In this sense, the component can be called through Web by programming. As the Web service is the programmable component based on standardized Web protocol, the Web service can surpass firewalls as well as neglect difference of heterogeneous platforms. This is to mean that different heterogeneous platforms just need to expose the necessary web services to the exterior without considering of operational systems. 3.3 The third-party controls are used to meet users’ requirements, such as drawing of complex graphics and data export of Excel documents. With Office’s support of .NET, the system can export data list through the form of Excel by calling components of Interop. Excel, Interop. Office and Interop. Owc. Dundas WebChart control of .NET provided by the third party is adopted to display selected data of users. The system is aesthetic in data display and highly-efficient in operation.

# 4. System Application and Development Environment

## 4.1 Software used in the system development includes:

Operating system: Windows 2003 Server. Web server: IIS 6.0 . Database management system: SQL Server 2000 Enterprise. System development software: Visual Studio.NET 2003 from Microsoft.

## 4.2 System design and development tools include:

Demand analysis and design tools: IBM Rational Rose and SODA. Configuration management and source program controlling tools: Microsoft’s Visual Source Safe. Database analysis and design tool: Sybase Power Designer. Integrating tool of business system: Microsoft’s DTS. Others: Microsoft Office software.

# 5. System Implementation

## 5.1 Announcement management

The main functions of this module are to add, check and manage content of announcements. Through the announcement module, students can be informed of different announcements published by the school and department online during the in-post practice.

Private void BindData(int PageSize,int PageIndex,string strWhere)

{ dg.VirtualItemCount=

Model.AnnouncementList.GetCount(strWhere);

dg.CurrentPageIndex=PageIndex-1;

dg.DataSource=Model.AnnouncementList.GetList(PageSize,PageIndex,strWhere);

dg.DataBind(); }

## 5.2 Graduation practice scoring

The main functions of this module are to mange all processes of the graduation practice, including assessment and management of scores out of the school and scores of graduation in-post practice (including ability training and practice process), setting of the comprehensive scores (including scores of supervisors both in school and out of school and materials submitted during the practice), in-post practice check and adding checking records and etc.

Private void LoadTaskData(int id)

{ Model.DocumentList model=

Model. DocumentList.GetModel(id);

lblTaskName.Text=model.DocumentName;

hlDetail.NavigateUrl="Task\_Detail.aspx?id="+id.ToString(); }

## 5.3 Task management

Through this module, school can release relevant tasks of the graduation in-post practice, record and check violations of students during the practice (for example, failing to submit files on time), mark files submitted and etc. Moreover, students can submit files through this module. The main functions of this module are to release tasks, mark documents, check violations, manage task list and submit files.

Codes of part functions are shown as the following:

int id=Convert.ToInt32(e.Item.Cells[0].Text);

Model.DocumentList model=Model. DocumentLis.GetModel(id);

//CheckingExaminationSituation

((LinkButton)(e.Item.Cells[7].Controls[0])).Text="Correct";

## 5.4 Graduation design scoring

This module mainly deals with management of thesis defense in the graduation design. It includes three function modules: assessment and management, scoring of thesis defense group and teacher’s scoring.

Codes of part functions are shown as the following:

Protected void lbtnSaveR\_Click(object sender, System.EventArgs e)

{ Model.ScoringRelationalTable model=

new bysj.Model. ScoringRelationalTable ();

DataTable dt=Model.ScoringRelationalTable.GetList

("ScoringListNo.='"+ddlTable.SelectedValue+"'").Tables[0];

Model. ScoringRelationalTable.Add(model); }

## 5.5 System management

This module deals with management of all sorts of data needed in the system. It includes system logs, department management, management of the teaching and researching office, faculty management, class management, students’ management, materials modification, authority assignment, system configuration, supervisors out of the school, inquiry of teachers out of the school, user management, password change, BBS and etc.

Protected void lbtnSearch\_Click(object sender, System.EventArgs e)

{ DataSet ds1=Model.AuthorityList.GetList("");

DataSet ds2=Model.RoleAuthorityList.GetList("RoleName='"+ddlGroup.SelectedValue+"'");

cbl.DataSource=ds1.Tables[0]; cbl.DataTextField="AuthorityName"; cbl.DataBind(); }

# 6. Conclusion

This system making full advantages of web ensures that the graduation design (thesis) and graduation practice process can be carried out as normal and improves management of the graduation design (thesis) and graduation practice process. It solves the problem of management lack-age as students individually undergo graduation practice and design (thesis). The system puts the entire process of graduation practice online for operation.

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**Procedia Engineering** 15 (2011) 693 – 698.

基于Web的毕业实习过程管理系统的发展

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摘 要 传统的毕业实习管理过程繁琐，在数据检查和材料审批中花费了大量的时间。我们在毕业实习的基础上独立开发了一个管理系统，以使我们的毕业实习过程更加开放、更加公平、更安全，同时也提供了方便、科学、合理的管理方法，如计划、管理沟通和评价，指导教师和管理人员。本文主要探讨了如何通过网络工具来提高毕业实习过程的管理水平。

关键词 Net Framework;毕业实习过程；管理系统；

# 1.引言

毕业实习是高职院校人才培养计划的重要组成部分，是高职院校学生在学习期间获得的知识综合运用和考试，也是培养学生创新精神和实践能力的重要实践教学环节。同时，培养学生的重要教学阶段，对学生的综合理论与实践相结合、分析解决实际问题的能力，是衡量和检验教学质量的重要环节。因此，在毕业实习过程中，提高科学管理的科学管理，建立健全的质量监测与控制体系，建立有效的质量评价体系，提高全方位的毕业实习过程质量，已经成为一个急需解决的问题。

# 2.系统的总体架构

该系统包括了整个毕业设计和毕业实习的管理过程。有了系统，教师不仅可以轻松地收集所有的材料在毕业实习过程中通过网络，而且还监视学生在一个固定的时间。他们还可以通过限制文件上传的时间期限来获得学生的毕业设计和实践情况。因此，该系统提供了保证实时和网站的具体检查为指导老师。

## 2.1系统用户的设计

系统的用户角色分为三类：查询用户、数据管理器和系统管理器。

操作权限分为四种类型：数据查询特权、数据分析权限、数据报表权限和数据管理权限。

该系统要求所有用户在授权的权限下进行操作。只有系统管理员有特权用户管理和系统配置。所涉及的用户包括系统管理员、毕业设计管理者（他们来自不同的教学研究室、学校的部门和管理办公室）、毕业设计管理者、研究教师的毕业论文和评估、毕业设计的学生、实习管理者（他们来自不同的教学研究室、学校的部门和管理办公室）、实习督导和实习学生。

## 2.2功能的设计

本系统可以提供以下功能：对导师和学生进行资格审查、论文设置、选题、任务安排、论文的建议、学生的日志提交、教师和学生的中期检查表、提交论文和口头答辩材料、等级考试和批准、数据整理和总结，所有这些都是在毕业设计过程中提供的。监事资格考试（附了教师身份证、职称、学历证书、学位证书）、执业单位考核、学生实习情况的督导、实习报告和实习总结，在毕业实习过程中提供。此外，该系统还为教师和学生提供学术和科研方面的讨论。

## 2.3接口设计

CSS（层叠样式表）是用来决定风格的网站，让不同的网页显示相同的背景颜色，相同的字的大小和相同的输入方式。

根据CSS样式规则，与使用的形式，通过级联样式表的统治范围是一个网站和一个HTML标签不同。CSS文件来统一网站的风格。内部文档可以用来完成根据层叠样式表来指定某些网页样式的工作。内联样式定义应该是用来做一些HTML标签的特殊样式规则。存在的三种模式，使整个网站的独特性和可变的基础上指定的风格。此外，在变化与统一的矛盾的两个对立面结合在一起吧。

风格。CSS层叠样式表是在整个毕业设计过程管理系统建立在细节上的网页指定默认的显示风格，所有的HTML标签。对有特殊显示要求那些HTML标签，内联是用来满足特殊要求。系统界面的风格与这2种模式的有机结合是统一的。

## 2.4数据库设计

管理系统数据库在毕业实习期间，检查清单中的实习后，在实习后的成绩表，测评项目清单中的实习后，公布名单，一个学生名单，名单中的教师名单，学校外的导师名单，毕业设计评分，成绩表，违规名单，选项列表等。

# 3系统中的关键技术

系统采用了基于网络浏览器/服务器的多层结构，具有良好的易用性、灵活性强、可靠性高的优点。它与视窗操作系统完全兼容，便于教师和学生使用浏览器固有的浏览器。

## 3.1这种管理的重点是管理和个性化的设置，提高了效率。

按作用，用户可分为系统管理员、教务处、教务处、教研室、教师和学生。不同的角色有不同的权限当局。例如，学生有权限主要操作系统的检查通知和提交的文件，学生主要进行阅读和填写相关的文件，在毕业后在实践中的两个系统的功能。

## 3.2动态的关键数据分布是实现在系统通过开发Web服务以确保及时性和一致性。

一个网络服务是可编程的应用逻辑与应用程序的网络协议（例如肥皂）。在表面上，一个网络服务可以被视为应用程序提供一个组件的外部，使远程过程调用通过网络。在这个意义上，组件可以通过编程调用。由于网络服务是基于标准化的网络协议的可编程组件，网络服务可以超越防火墙，也不能忽视异构平台的差异。这是意味着不同的异构平台只需要公开的必要的网络服务的外观，而不考虑业务系统。

## 3.3使用第三方控件来满足用户的要求，比如复杂的图形和数据导出的文件。

Office的支持.NET，系统能够调用Excel将数据导出为表格。.NET通过调用第三方提供的控件如Excel、Office、Owc、Dundas WebChart显示用户选择的数据。

该系统具有数据显示、操作效率高的美学。

# 4.开发工具和开发环境

## 4.1开发环境

操作系统：Windows 2003 Server；

Web服务器：IIS6.0；

数据库管理系统：SQL Server 2000 Enterprise；

开发工具：Visual Studio.NET 2003 form Microsoft；

## 4.2系统设计开发工具包括：

需求分析与设计工具:IBM Rational Rose and SODA.

配置管理和源程序控制工具:Microsoft’s Visual Source Safe.

数据库分析与设计工具:Sybase Power Designer.

业务系统集成工具: Microsoft’s DTS.

其他： Microsoft Office；

# 5系统实现

## 5.1通知公告

该模块的主要功能是添加、查询和管理公告内容。通过公告模块，学生可以在网上发布的不同公告的学校和部门在实践中。

Private void BindData(int PageSize,int PageIndex,string strWhere)

{

dg.VirtualItemCount=Model.AnnouncementList.GetCount(strWhere);

dg.CurrentPageIndex=PageIndex-1;

dg.DataSource=Model.AnnouncementList.GetList(

PageSize,PageIndex,strWhere);

dg.DataBind();

}

## 5.2毕业实习得分

该模块主要功能是管理毕业实习的全过程，包括评估和管理成绩出来后实践的学校和成绩毕业（包括能力的培养和实践的过程），对综合得分的设置（包括在学校和在实践中学校和材料提交主管分），在练习后的检查和添加检查记录等。

private void LoadTaskData(int id)

{

Model.DocumentList model=

Model.DocumentList.GetModel(id);

lblTaskName.Text=model.DocumentName;

hlDetail.NavigateUrl="Task\_Detail.aspx?id="+id.ToString();

}

## 5.3任务管理

通过这个模块，学校可以在实习过程中释放毕业的相关任务，记录和检查学生在实习过程中的违规行为（例如，未能按时提交文件）、提交等。此外，学生还可以通过这个模块提交文件。此模块的主要功能是发布任务，标记文档，检查违规，管理任务列表和提交文件。

int id=Convert.ToInt32(e.Item.Cells[0].Text);

Model.DocumentList model=Model. DocumentLis.GetModel(id);

//CheckingExaminationSituation

((LinkButton)(e.Item.Cells[7].Controls[0])).Text="Correct";

## 5.4毕业设计得分

该模块主要是对毕业设计中论文答辩的管理。它包括三个功能模块：评估和管理，论文答辩小组得分和教师评分。

Protected void lbtnSaveR\_Click(object sender, System.EventArgs e)

{

Model.ScoringRelationalTable model=new

bysj.Model. ScoringRelationalTable ();

DataTable dt=

Model.ScoringRelationalTable.GetList("ScoringListNo.='

"+ddlTable.SelectedValue+"'").Tables[0];

Model. ScoringRelationalTable.Add(model);

}

## 5.5系统管理

该模块涉及系统中所需的各种数据的管理。它包括系统日志、部门管理、教研室管理、教师管理、班级管理、学生管理、材料修改、权限分配、系统配置、主管出学校、教师走出学校、用户管理、密码更改、论坛等。

Protected void lbtnSearch\_Click(object sender, System.EventArgs e)

{

DataSet ds1=Model.AuthorityList.GetList("");

DataSet ds2=Model.RoleAuthorityList.GetList(

"RoleName='"+ddlGroup.SelectedValue+"'");

cbl.DataSource=ds1.Tables[0];

cbl.DataTextField="AuthorityName"; cbl.DataBind();

}

# 6总结

该系统充分利用了网络的优势，保证了毕业设计（毕业设计）和毕业实习过程可以作为毕业设计（论文）和毕业实习过程中的一次又一次的管理。解决了学生个人进行毕业设计实践和设计（论文）的管理缺失问题。该系统将整个毕业实习过程中在线操作。

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