

Contract Management System

Project Introduction

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Project Background

With the establishment and development of the socialist market economic system, and gradually improve and standardize legal mechanism, the use of computer technology for contract management is the inevitable trend of.

Contact Management System Can draft contract quickly and standardly, according to the process of contract management to countersign, approve, sign, executive management etc, and Provide effective data query, statistical analysis and other management functions. Conducive to the signing of the contract, implementation and management.

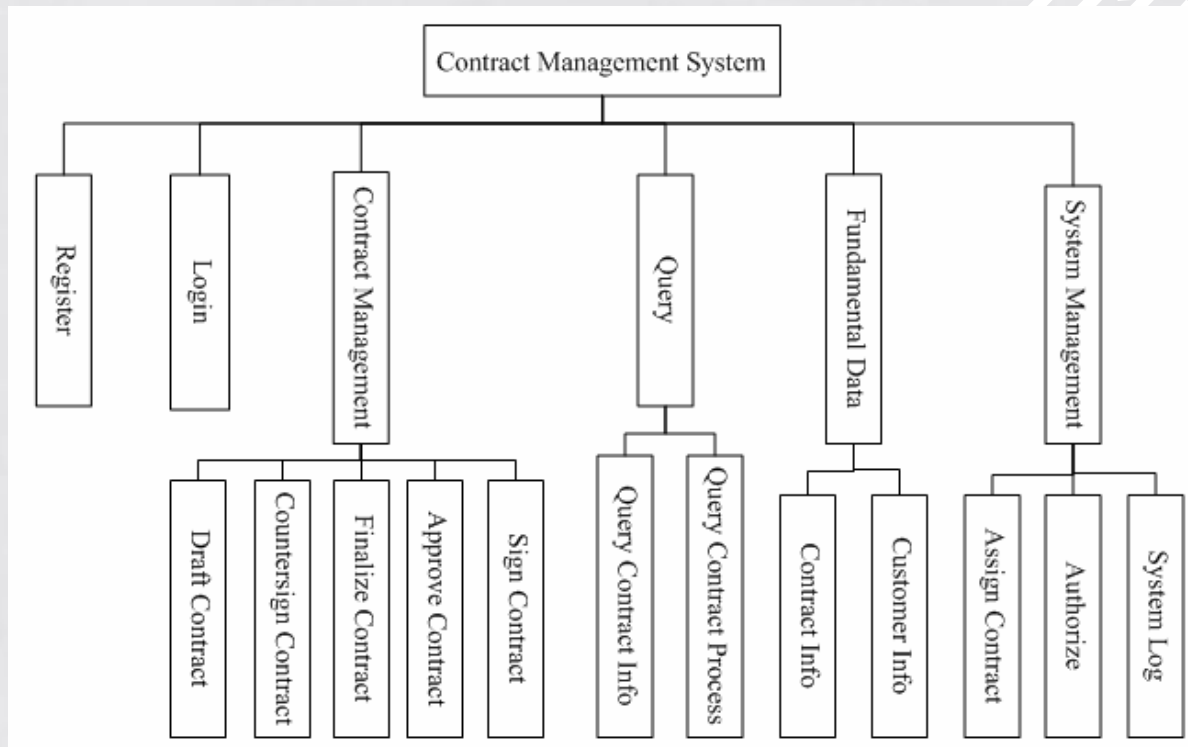
This project combines contract data and process management organically, based on B/S structure, centralized management of data, ensure that the specification of contract management, rigorous and efficient, conducive to improve the work efficiency and accuracy.

Project Objectives

Through the development of “Contract Management System” project to achieve the following goals:

- (1) To obtain knowledge of business background. Search the same type of Contract Management System, and learn the business and process of the system.
- (2) To understand JDK, Tomcat, MyEclipse IDE.
- (3) To master JAVA Fundamental Programming, and understand the object-oriented programming thinking.
- (4) To understand Java SE and Java EE, including JSP, Servlet, JDBC, etc.
- (5) Static Web(HTML, DIV, CSS), JavaScript, Exception Handling, XML, MVC,JUnit etc.
- (6) To perform project requirement research and analysis, read and fill the document of Project Requirement and System Design.
- (7) To master database modeling with Powerdesigner.
- (8) To understand the development process of a project, understand the software structure, iterative thinking and develop WEB application program.
- (9) And to get good coding habit, elevate Java Web and database programming practice ability so as to develop enterprise application program.

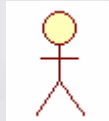
1. System functional architecture



System is divided into 6 modules:

Register, Login, Contract Management, Query, Fundamental Data, System Management.

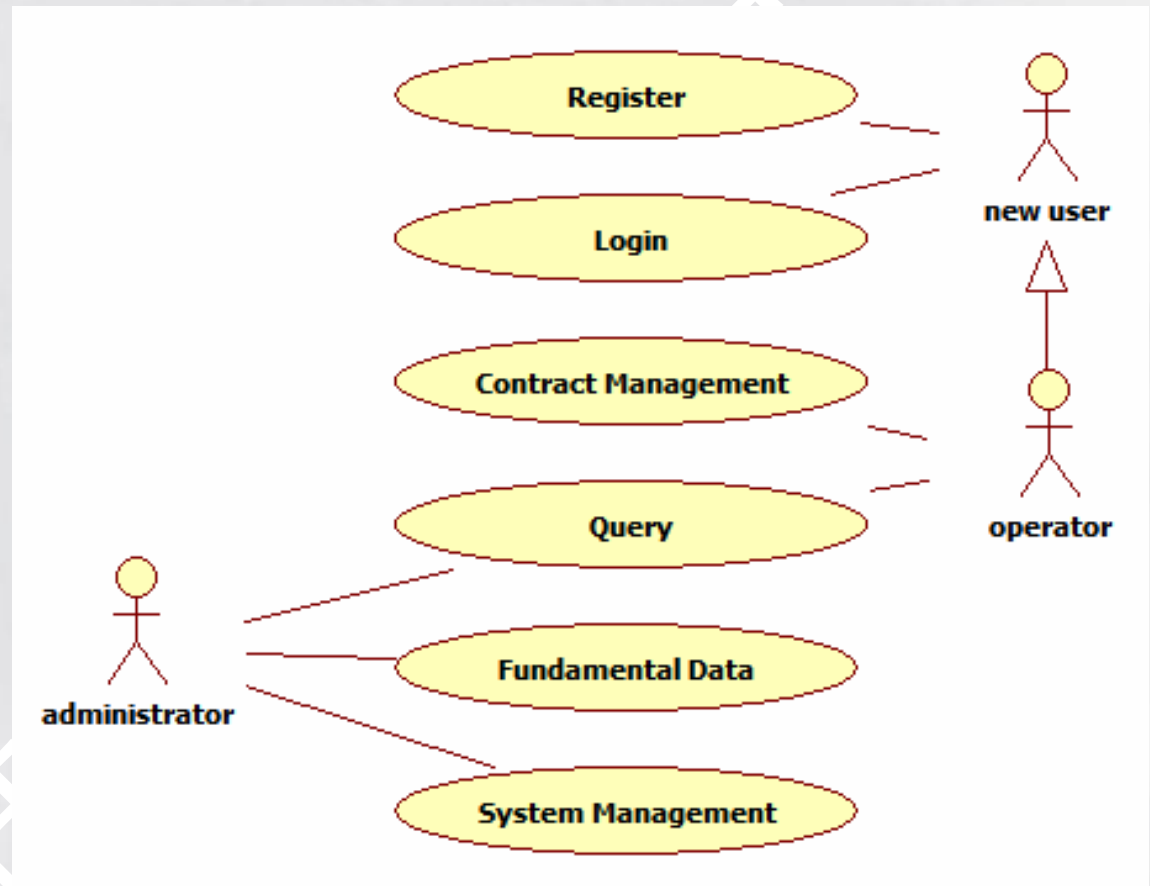
2. System use-case



actor



use case
(function)



Draft[Draft Contract](#)[Contract to be finalized](#)[Finalized Contract](#)[Query Process](#)**Countersign**[Contract to be countersigned](#)[Countersigned Contract](#)**Approve**[Contract to be approved](#)[Approved Contract](#)**Sign**[Contract to be signed](#)**Contract to be countersigned**Search contract to be countersigned:

Contract name	Draft time	Operation
Labor Contract	2013-12-21	 Countersign
Labor Contract	2013-12-21	 Countersign
Labor Contract	2013-12-21	 Countersign
Labor Contract	2013-12-21	 Countersign

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Implementation

Development Environment

1. **Development tool:** JDK1.6, MyEclipse 6.X, etc.



2. **Web Server:** Tomcat 6.X



3. **Database:** MySQL5.X



Implement Idea

The Project is developed under an iterative thinking, following the path **Framework -> Interface -> Data design -> Function**, among which the Function development is separated into several child iterations, **each completed as a child project with processes of requirement, design and implementation.**



1. Functional iterations in project development

Iterative development is divided into 2 stages: basic stage and function implementation stage

Iteration↴	Function↴	Technology↴
UI Design↴	design Register Page, Login Page, Contract Management Page, System Management Page.↴	HTML, CSS, JavaScript, div, form, frame.↴
Create Project↴	Create Java EE project, Design project frame with 3L structure in combination with the idea of MVC model.↴	Java EE project, 3L structure, MVC, Create and configure Servlet, web.xml, deployment project↴
Database Design↴	Design project database, Create database in MySQL.↴	Database Design, PowerDesigner, MySQL 5.X, SQL↴
Entity Class Design↴	Analysis of the data and database table, create Entity.↴	Data encapsulation and transmission, Structure of entity classes↴
Util Class↴	1. Exception Handling: Create User-defined exception class to be processed altogether.↴ 2. Database Operation: Create database tools, unified management database Connectivity↴	Exception structure, Exception handling and processing, defined exception↴
Each function module development↴	realize Each function module ↴	Static Web, Java EE, MVC, JSP, Servlet, JDBC etc.↴

Project Iteration

the iteration of function implementation stage as follow:

Iteration↵	Function Description↵	Technology↵
Register↵	Fill in register information: user name and password in register page, confirm the password (consistent with the password), then register.↵	<u>Servlet</u> Access configuration, <u>Request&Response</u> ↵
Login↵	Fill in the user name, password in the login page, click “Login” button to log in. ↵	JDBC, Exception handling,↵ 3L development↵
Draft Contract↵	User in operator role has the right to draft contract, waiting for the manager assigned personnel after drafting.↵	JDBC add operation, HTTP POST Method↵
Countersign Contract↵	The countersigner select contract to review the content, and input the countersignature opinions to countersign.↵	JSP component(<jsp:useBean/>,<jsp:getProperty/>,<jsp:setProperty /> etc.),↵ <u>List</u> , <u>Generics</u> , <u>JDBC</u> , <u>SQL</u> , <u>Status Vefication</u> ↵
Finalize Contract↵	Drafter choose to check it's countersignature opinion, and amend the contract to finalize. ↵	Finalize Process, Character set↵
Approve Contract↵	Approver select contract to review the content, and fill in the approval opinion to approve.↵	Approve Process, update contract with JDBC↵
Sign Contract↵	signer select contract to review the content, and perform the signature operation to a specific contract.↵	Sign Process, JDBC↵
System Management↵	Administrator can assign the contract, authorization management and log management and so on.↵	RBAC Model, Permissions configuration, Permissions Vefication↵

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Thanks

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