

PROJECT REPORT

July 2008

Project Title: BlueMoon Recruitment

Group Members:

1. Huynh Quang To
2. Nguyen Quang Ky
3. Nguyen Quang Tho

Batch Code: B080037

Centre: SaiGon



BlueMoon Recruitment

Batch Code : **B080037**

Start Date : **March 15th, 2008**

End Date : **July 15th, 2008**

Name of the Coordinator : **Nguyen Minh Tu**

Names of Developers :

Huynh Quang To

Nguyen Quang Ky

Nguyen Quang Tho

Date of Submission: **July 16th, 2008**



CERTIFICATE

This is to certify that this report titled *BlueMoon Recruitment*. Embodies the original work done by Huynh Quang To, Nguyen Quang Ky, Nguyen Quang Tho in partial fulfillment of their course requirement at NIIT.

Coordinator:
Nguyen Minh Tu

ACKNOWLEDGEMENT

We have benefited a lot from the feedback and suggestions given to us by Nguyen minh Tu and other faculty members, and the machine room coordinator.

INTRODUCTION

BlueMoon is a renowned manpower recruitment agency that has a Web site to facilitate online search for jobs. The organization has branches all over the world. The branches contact various organizations to collect information about job vacancies and recommend resumes that match the requirements of these organizations.

EXISTING SYSTEM

The various branches of BlueMoon update a centralized data repository with the resumes of the job seekers. In addition, the branches also update the centralized repository with the information about vacancies at various organizations.

To update the centralized repository, all the branches send their data to the head office where the resumes of the job seekers are scrutinized. The selected resumes are added to the database. The Web site also facilitates the online functions of job search, resume generation, and job vacancy generation.

However, BlueMoon has been facing problems in maintaining consistency in the resume formats sent by the job seekers. In addition, the efficiency of the Web site reduces significantly during search operations. An analysis revealed that the job seekers perform location-and category-based search to view the list of available jobs. To facilitate these search operations, the Web server frequently interacts with the database.

ENVISIONED SYSTEM

In the current implementation of the Web site, there is an existing data storage solution deployed on SQL Server 2000. The Web site is hosted using IIS 4.0.

To solve the problems, BlueMoon decides to use XML as the base for developing a search engine.

The system administrator will update the centralized SQL Server 2000 database at the head office with the XML documents containing resume details of the job seekers sent by all branches. In addition, the system administrator will be able to retrieve the resume details from the SQL Server 2000 database in the Internet Explorer.

To provide the envisioned functions, the new system should have following features:

1. The system should have a mechanism to allow only authorized executives to access the resumes of the job seekers.

2. The system should maintain the details of the resumes sent by the job seekers in a Web-base transportable database. The details of the job seekers to be stored will be:

Personal details, such as name, age, gender, address, telephone number, and e-mail ID.

Educational details, such as graduation details, post-graduation details, and additional qualifications, if any.

Professional details, such as experience, nature of the current job, current employer, tenure, designation, and skill set.

Miscellaneous details, such as location preference and achievements.

3. The system should also maintain the details of the current openings in the Web-based transportable database. The details of the current openings to be stored include the organization name, organization profile, designation, qualification, job description, category, salary, location of vacancy, and contact information

4. The system should have a mechanism to display a list of the resumes of the job seekers.

5. The system should have a mechanism to approve or reject the specified resume.

6. The users should be able to find the currently available opportunities by specifying the desired location and the job category.

The following components can be used to perform different operations in the application:

XML: To store details of the job seekers and the currently available opportunities.

XSD: To use the schema definition for XML documents that contains the resume details. All XML documents can be validated against this schema by using the XML Schema Validates.

XSL: To format the XML documents the contain details about job categories, resume, and locations. The XML documents are generated when a

user performs a search based on job category or location.

XPath Queried and XML SQL Server 2000 supported methods:

- o To process the data in XML documents with SQL Server 2000 and to update the SQL Server 2000 database from the XML documents.

- o To display the records from the SQL Server 2000 database in the XML format.

JavaScript: to display the resume of job seekers. It consists of the methods required for approving and rejecting the specified resume.

HTML: to design the Web pages, call the methods of JavaScript, and display the retrieved data to the users.

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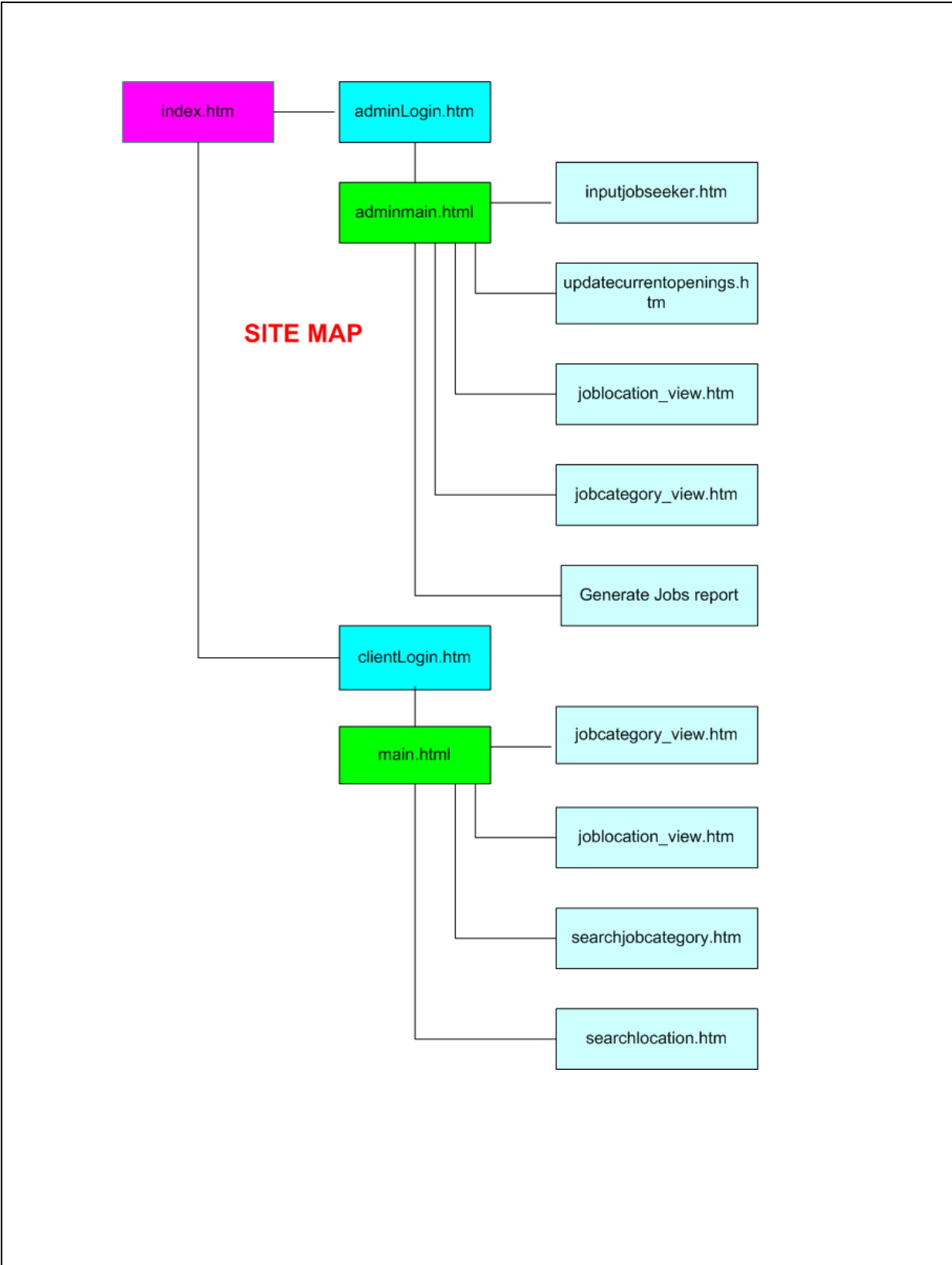
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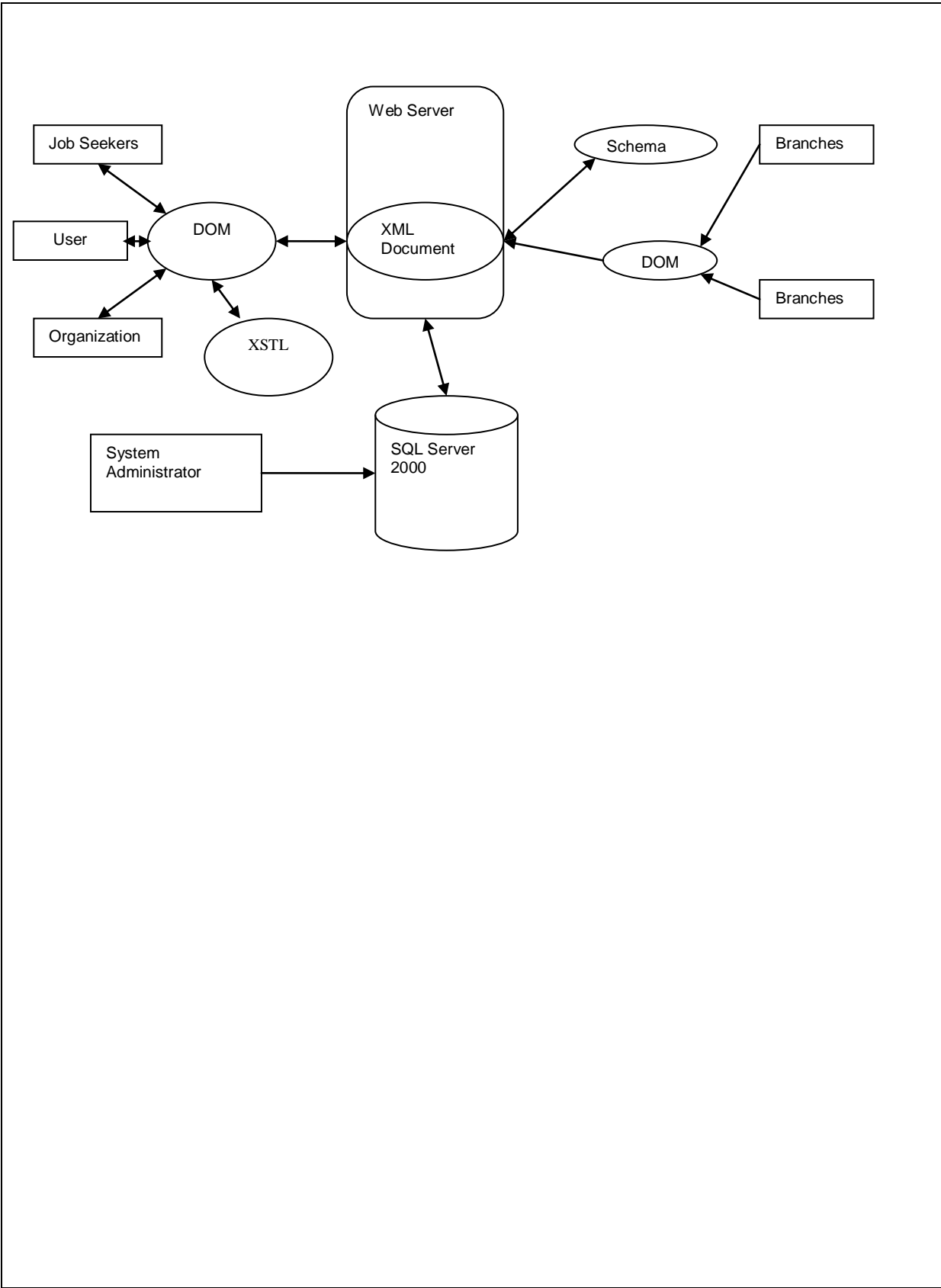
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SITE MAP



SYSTEM ANALYSIS



CONFIGURATION

Hardware: PC compatible with an Intel Celeron processor, 256-MB RAM, and 40GB of Hard disk.

Operating system: Windows XP Professional or later

Software: IE 5.0 or later, QSL Server 2000, SQLXML 3.0 SP2, MSXML Parser 4.0 SP2

SOLUTION TO SAMPLE

We created the following files:

1. **jobcategory.xml**: To store the resumes of the job seekers.
2. **user.xml**: To store the logon information of Branches and users.
3. **joblocation.xml**: To store the information about vacancies at various organizations. **location.xml** and **jobseeker.xml** store the organizations and job seekers.
4. **jobcategory.xsd**: To store the schema definition for the jobcategory.xml document and validate the xml document.
5. **jobcategory.xsl**: To format the jobcategory.xml document, which contains details about the job seekers, and to provide the method for parsing it for all categories.
6. **joblocation.xsd**: To format the joblocation.xml document, which contains details about the information about vacancies at various organizations, and to provide the method for parsing it for the Job category.
7. **joblocation.xsl**: To format the **joblocation.xml** document, which contains details about the information about vacancies at various organizations, and to provide the method for parsing it for the Location.
8. **index.htm**: To provide an interface to users and Admin to access the Job System.
9. **clientLogin.htm**: To provide an interface to users and customers to log on and access the Job System.
10. **adminLogin.htm**: To provide an interface for executives to log on and access the resumes of the job seekers.
11. **main.html**: To provide an interface for view and search information about vacancies at various organizations and resumes of the job seekers.
View: **joblocation_view.htm** and **jobcategory_view.htm**
Search: **searchlocation.htm** and **searchjobcategory.htm**
12. **adminmain.html**: To update the information about vacancies at various organizations and resumes of the job seekers system to provide an interface to view the records from the SQL Server 2000 database in the XML format.
Update information about vacancies at various organizations: **updatecurrentopenings.htm**
Update resumes of the job seekers: **inputjobseeker.htm**
13. Database BlueMoonTT: To contain the database script for inserting the XML Document data in SQL Server 2000.

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Session#	Module	Task to be performed	Time Limit
1	Design the web pages	To provide an interface to users and admin executives to log on. To provide an interface to the users to access job system.	
2	Create the XML documents and corresponding schema documents	jobcategory.xml,user.xml joblocation.xml and corresponding schemas	
3	Create the methods for processing the XML documents by using DOM objects	To update the job system by adding new job on the client side. To update the job and to provide an interface to view the records from the SQL Server 2000 database in the XML format.	
4	Create Style sheets and XSLT	To format the jobcategory.xml joblocation.xml document, which contains details about the job,and to provide a method for parsing it for the job category and Location.	
		To format the jobcategory.xml, joblocation.xml document,which contains details about the job,and to provide a method for parsing it for all categories.	
		To format the jobcategory.xml, joblocation.xml document, which contains details about the job,and to provide a method for parsing it for the Location category.	
5	Create Xpath Queries and SQL queries		

