

[SlideShare](#) [Explore](#) [Search](#) [You](#)



- [Upload](#)
- [Login](#)
- [Signup](#)
- 
- 
- [Home](#)
- [Explore](#)

Successfully reported this slideshow.

We use your LinkedIn profile and activity data to personalize ads and to show you more relevant ads. [You can change your ad preferences anytime.](#)

# ASIA PACIFIC INSTITUTE OF INFORMATION TECHNOLOGY

PANIPAT (HARYANA – INDIA) – 132 103



## GROUP ASSIGNMENT

Module Code : (CE00321-2)

# “JOB PORTAL MANAGEMENT SYSTEM”

**GROUP # 6**

**Level 2**

**Hand out date:** 6-February-2013

**Hand in date:** 12-April-2013

**Submitted To:**

Mr. Ankur Singla

**(Module Lecturer)**

**Submitted By:** -

Jigyasa Saluja (PT1081114)

Piyush Kumar (PT01081156)

Himanshu Agrawal (PT1081122)

# CERTIFICATE



This is to be certified that the following under mentioned students of APIIT SD INDIA have successfully completed the project of System Development Methods. They have maintained all guidelines set by "STAFFORDSHIRE UNIVERSITY". Their project has been submitted in the given span of time. They have adopted no foul means to complete their project.

I hereby declare that I have been handed over the project along with all necessary documents. I wish them good luck in all their future projects.

**Submitted By:-**

Jigyasa Saluja (PT1081114)  
Piyush Kumar (PT01081156)  
Himanshu Agrawal (PT1081122)

**Submitted To:-**

Mr. Ankur Singla  
(Module Lecturer)  
System Development Methods

## ACKNOWLEDGEMENT

It was a great experience working on the project of "**System Development Methods**". We express our heartiest gratitude towards those who were constantly involved with us during our project. APIIT SD India, Panipat, will always occupy a special place in our heart, throughout our career, for both personal and professional reasons.

The phenomenon remains same that no project ever can be executed proficiently and efficiently without sharing the meticulous ideas, technical expertise and innovative thoughts put forwarded by the technical and non-technical veterans.

Whenever a technical project is developed, eventually it requires conductive technical environment and technical guidance to get involved in the assigned project enthusiastically.

We are also grateful to all the APIITIAN lecturers for being extremely friendly and co-operative during the entire course of our project. Their continuous help and support made the project much easy.

There are no exact words to express our regards and legitimate gratitude to one of our esteemed techno personality, without him this project could not get an entrance towards the execution. **Mr. Ankur Singla** is the pioneer who availed this magnificent option to us to move ahead. He has always inspired and guided us for the right track to be followed for all the system analysis section of this project. We are indebted to him for giving us this great opportunity to pursue our 6<sup>th</sup> semester project.

Lastly, we would like to thank all those whose names may not have appeared here but whose contribution has not gone unnoticed. We would like to thank all of them, for their help in various ways.

**Submitted By:** -

Jigyasa Saluja (PT1081114)

Piyush Kumar (PT01081156)

Himanshu Agrawal (PT1081122)

# TABLE OF CONTENTS

1. INTRODUCTION.....	6
1.1 PURPOSE.....	7
1.2 OBJECTIVE.....	7
1.3 SCOPE.....	7
1.4 MODULES.....	8
2. SCHEDULE PLANNING.....	9
2.1 GANTT CHART.....	9
2.2 WEEK DISTRIBUTION.....	11
2.3 WORKLOAD MATRIX.....	12
3. SELECTION OF METHODOLOGY .....	13
4. PROBLEM BACKGROUND – CURRENT SYSTEM.....	20
5. OVERVIEW – PROPOSED SOLUTION.....	20
6. REQUIREMENTS.....	22
6.1 FUNCTIONAL REQUIREMENTS .....	22
6.2 NON-FUNCTIONAL REQUIREMENTS .....	29
6.3 HARDWARE REQUIREMENTS.....	30
6.4 SOFTWARE REQUIREMENTS.....	30
7. PROCESS MODEL.....	31
7.1 LOGICAL PROCESS MODEL.....	32
7.1.1 CONTEXT DIAGRAM.....	32
7.1.2 LEVEL 0 DFD .....	33
7.2 PROCESS SPECIFICATION.....	36
7.2.1 DECISION TABLE.....	36
8. DATA MODELS.....	37
8.1 ENTITY RELATIONSHIP DIAGRAM.....	38
9. EVENT MODEL.....	39
9.1 ENTITY LIFE HISTORY.....	40
10. DATABASE DESIGN.....	43
10.1 ADMINISTRATOR DATABASE.....	43
10.2 EMPLOYER DATABASE.....	44

10.3 JOBSEEKER DATABASE.....	45
10. DESIGN PRINCIPLES.....	46
11.1 INTERACTIVE SCREEN DESIGN ALONG WITH PSEUDOCODE.....	46
12. PROGRAMMING ENVIRONMENT.....	58
12.1 FRONT – END.....	58
12.2 BACK – END.....	59
13. CONCLUSION.....	60
14. BIBLIOGRAPHY.....	61
15. APPENDIX.....	62
15.1 WEEK DISTRIBUTION	
15.2 BIWEEKIES	

## INTRODUCTION

Technology is constantly changing. Society as we know it depends on this fact. That which we take for granted today would have been the stuff of science fiction as little as fifty years ago. In fifty years time, we will doubtless be excited, perturbed and baffled by yet more new developments. In the early years of the twenty first century, it is computers and the Internet that have captured the public imagination, and found their way into not just the working environments, but increasingly into the domestic spaces.

In this modern society, if we are not capable to cope up with these changes than we are not going to stand or survive anywhere in this technical world. Today there is no place for errors, so as to make a system more effective and efficient we need such technology where error prone chances must be least.

In the scenario of the assignment, we are required to develop a web-based application on Job Portal Management System. In this time of recession where everyone, is either experienced or fresher, is in search for a job. This job portal can prove to be very helpful since it allows users of different profile to upload their CVs, search job on the basis of their qualification. Every user can access through user id and apply for multiple jobs at a time.

Currently, we are working on a manual system where data is stored in the form of registers. Viewing available jobs, or applying for the job at the agency can be done for which job seekers has to go to the agency and check the available jobs at the agency. Job seekers check the list of jobs available and apply the job. Then the agency will show available jobs for the job seeker for his qualifications and then updates the jobs database. The developed Job Portal management system is web-based which Requires Employee Registration & Profiles, Job Search, Employer Registration & Profiles, and Subscription Option for both Employee and Employer etc. Employer can add Own Profile and post jobs and Job Seeker can Search Jobs based on Geographical Area (Country, State, and City), Qualification, and Company wise or on the Basis of Experience and Expertise wise.

## Purpose

The purpose of designing the online job portal is to give the job seekers a platform for finding a right and a satisfactory job according to their qualification. It also connects the job seekers with the major agencies.

It also provides Jobs portal for Job Seekers to submit their CV and apply for job posting and Employer can select best Employees from Available CV based on their payment option selection. This is basically a Job portal where job Seeker applies for jobs and employer post jobs and select prospective applicant.

Job portal is prepared for provide all categories of job and help to get various type of job. The main purpose of job portal is to provide the facility to job seekers for getting the quick job.

So, it enables applicants to search for jobs in a convenient manner and to enable employers to find suitable candidates.

## Objective

The objective of the application is to develop a system using which job applicants and recruiters can communicate with each other. An Online Job Portal is an application where the job seekers can register themselves at the website and search jobs which are suitable for them whereas the employers register with the website and put up jobs which are vacant at their company.

The Online Job Portal System is a package to be used by agencies to improve the efficiency of business. The Online Job Portal System to be developed benefits greatly the members. The system provides jobs catalogue and information to members and helps them decide on the jobs to apply. The Admin and employers can keep the jobs catalogue updated all the time so that the Job seekers get the updated information all the time.

## Scope

*The Scope for the system can be as follows:-*

- Maintain Job Seeker and Employer records
- Maintain uploaded Resumes
- Provide Customized Job Postings
- Maintain Job Posting details and generate various reports

## Modules

The application comprises the following major modules:

### Job Seeker Module

This module provides functionalities for job seekers. Applicants can post their resumes with personal and professional details. They can also update the resume as frequently as required. The applicant can also browse through the present vacancies available. Job seekers can also get mail alerts when their resumes are selected by employers.

### Employer Module

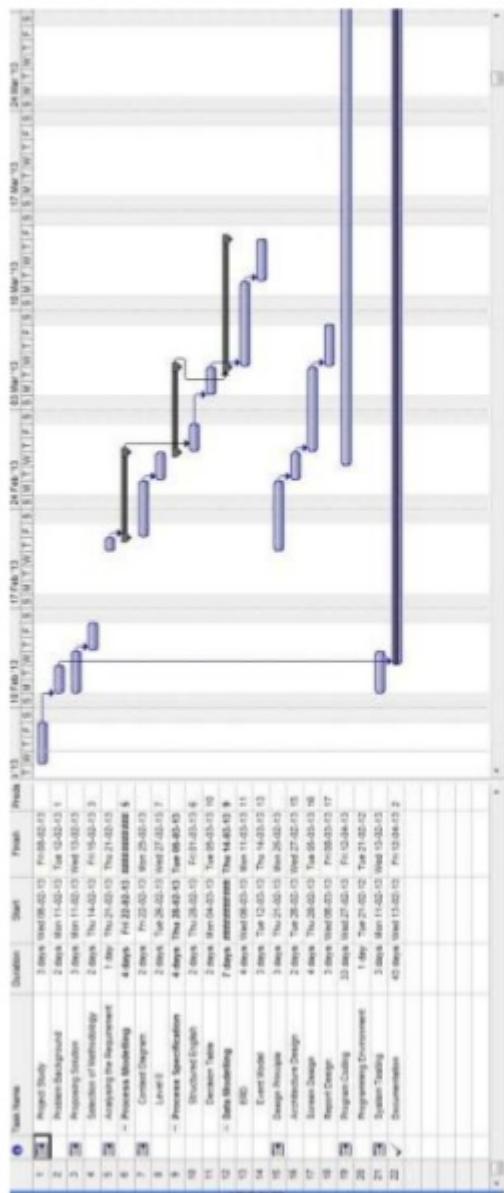
This module provides functionalities related to employers. Employers can post vacancy details and update the details as and when necessary. Employers can search through applicant resumes based on different criteria.

### Administration Module:

This module provides administrator related functionalities. Administrator manages entire application and maintains the profiles of applicants and employers.

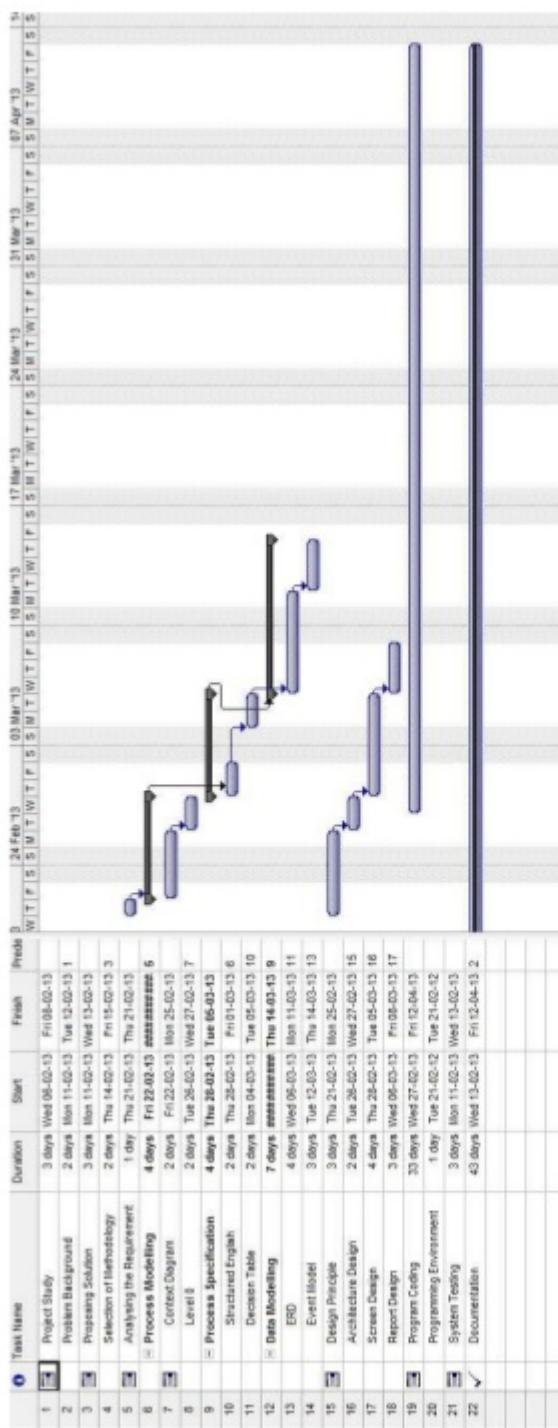
# SCHEDULE PLANNING

## GANTT CHART



## [JOB PORTAL MANAGEMENT SYSTEM]

April 12, 2013



SDM Group Assignment

10

# WEEK DISTRIBUTION

## Deliverable

A Deliverable is a term used in project management to describe a tangible or intangible object produced as a result of the project that is intended to be delivered to a customer (either internal or external). A deliverable could be a report, a document or any other building block of an overall project. (*Final Output*)

## Milestone

A deliverable differs from a project milestone in that a milestone is a measurement of progress toward an outcome whereas the deliverable is the result of the process. For a typical project, a milestone might be the completion of a product design while the deliverable might be the technical diagram of the product. (*Intermediate Output*)

S.No	Task	Week	Milestone/Deliverable
1.	Planning and analysis		
	Current System Analysis	Week - 1	Current System Flaws
	Project Planning	Week – 1	Proposed System
	Requirement Analysis	Week - 2	Hardware, Software Requirement Specification
2.	Designing and Coding		
	Logical Design	Week - 4	DFDs, ERDs, Decision Table
	Physical Design	Week – 5 - 6	Storyboards
3.	Implementation		
	Working with Front - End	Week – 5 - 6	Prototype
	Working with Back - End	Week – 6- 7	Developed System
4.	Validation and Testing		
	Test Plans	Week - 8	Errors in the System
	Test Scenarios	Week - 9	Final Product
5.	Final Presentation	Week - 10	Demonstration

## WORKLOAD MATRIX

---

No.	Student Id.	Name
1	PT1081156	Piyush Kumar
2	PT1081122	Himanshu Agrawal
3	PT1081114	Jigyasa Saluja

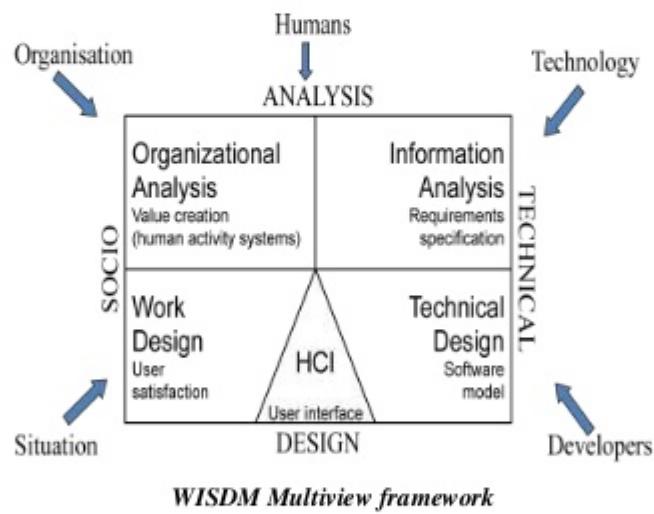
No.	Components	Max. Marks	Awarded	Work Division			
				1	2	3	Total
1	Selection of Methodology	10		33.33%	33.33%	33.33%	
2	Process Model including supporting document	20		33.33%	33.33%	33.33%	
3	Data Model including: attribute lists, PK's, FK's and Labeled relationships	20		33.33%	33.33%	33.33%	
4	Event Model	20		33.33%	33.33%	33.33%	
5	Screen Design	15		33.33%	33.33%	33.33%	
6	Implementation	15		33.33%	33.33%	33.33%	
Total Score		100					
Highest candidate score							
Final marks of individual candidates							

## SELECTION OF METHODOLOGY

System development methodologies are promoted as a means of improving the management and control of the software development process, structuring and simplifying the process, and standardizing the development process and product by specifying activities to be done and techniques to be used. Hence for the development of Project Management System, “*Web Information System Development*” methodology has been selected, because the system is web-based.

Website building is more complicated than a simple software building and WISDM includes almost each phase (that contains certain activities) that is required to build a website.

### STRUCTURE



### SCOPE

WISDM covers almost each and every step required for website development that includes from organizational analysis to work design and technical design. It ensures that we will be going through HCI process which is beneficial and recommended for website design.

## DESCRIPTION

A system development methodology refers to the framework that is used to structure, plan, and control the process of developing an information system. A wide variety of such frameworks have evolved over the years, each with its own recognized strengths and weaknesses. One system development methodology is not necessarily suitable for use by all projects. Each of the available methodologies is best suited to specific kinds of projects, based on various technical, organizational, project and team considerations.

Receiving the project, allotment of the projects to the right expertise, to conduct the meeting at regular intervals to track their progress and document management for project is being performed as a web based so that the manually done entire difficult task will be minimized. So as per our requirement for web based approach we have selected WISDM Methodology Web information system development methodology (WISDM) Web-based Information Systems Development methodology has derived a concept from hypermedia development methodology. Usually, hypermedia is a combination of rich texts, graphics, audio, video, and so forth by using the concept of a hyperlink in order to provide a cross reference and navigation to other pages or sections of the application. Any hypermedia design and development methodology should be able to adopt the development of a Web-based Information Systems.

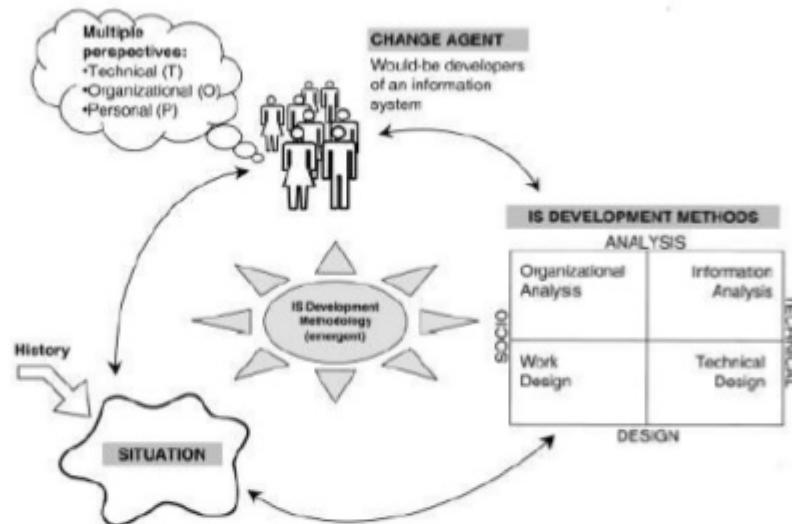
## PURPOSE

Firstly, the original purpose of Web-based development is to build an alternative type of medium that extends a channel of communication to online publishing purpose for internal and external stakeholders. In addition, the purpose of the Information Systems development is to facilitate business transactions and operation of an organization. Secondly, the development life cycle of a general Information System is a long term cycle, while a short term life-cycle of web-based development is quite common for many web-based projects.

Thirdly, the web is content intensive, and composed of unstructured information use; while structured information and its flow are the major focus of traditional Information Systems.

Finally, web-based development is a rich graphical approach, although it may be optional to most Information Systems development projects. Consequently, the

methodology to development needs to be discussed separately from the traditional Information System development.



Multiview framework for IS development (adapted from Avison et al., 1998).

### Justification for using WISDM

- It is best methodology for web based project management system as the resource required to implement this model is minimal.
- It follows the WISDM technique.
- User can find the site easy to learn to operate and understandable
- Provides accurate, timely, relevant information
- Provides information at the right level of detail
- Creates a sense of personalization
- Makes it easy to communicate with the users

# Organizational analysis

Organizational analysis represents value creation. It stresses strategy as relationship building and maintaining with broad range of stakeholders that includes customers, employees, government, and suppliers and so on. There are four types of stakeholders that are listed below:

## Primary stakeholder

Primary stakeholders are those who are directly interacted with the system. According to our system the primary stakeholders are administrator, job seeker, and employer.

## Secondary stakeholder

Secondary stakeholders are those who are not directly interacted with the system but receive output. According to our system the secondary stakeholders are Management who are not directly interacted with the system.

## Tertiary Stakeholders

These are those stakeholders that are not involved in the system. These are not primary as well as secondary but they are the one who are affected by the success and failure of the system. These are the investors and competitors, developer whose profit depends on the success and failure of the system.

## Facilitating Stakeholders

This is the main stakeholder as this is responsible for the developing, designing and maintaining the system. The developing team is the facilitator for this system.

## Information analysis

- Information analysis deals with requirement gathering techniques
- Traditionally addressed as requirements specification
- Formalized specification of the information and process requirements of the organization
- To document use graphical notation (use UML) or software prototype
- Use to create structural behavioral model of the problem situation
  - Use case
  - Class model
  - Activity diagram

## Human computer interaction

Human-computer interaction (HCI) is the study of interaction between people (users) and computers. Interaction between users and computers occurs at the user interface, which includes

both software and hardware; for example, characters or objects displayed by software on a computer's monitor, input received from users via hardware peripherals such as keyboards and mice, and other user interactions with large-scale computerized systems such as aircraft and power plants. It is defined as the discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. There are six design principles as follows: -

- Visibility – Visibility means by looking to an icon or some interactive buttons the user can come to know the use of it. It is achieved by putting control is a visible place.
- Feedback – It is a response to a users input. Whenever a user gives any input proper feedback must be given that is under process.
- Constraints – These are the properties of an object that limits the ways it can be used. These are used to reduce the possibility of user making errors. Constraints are generally used while filling up the information while creating or editing their profile such that no wrong information is entered by the user. There are basically three types of constraints – Physical, Logical and cultural.
- Mapping – Mapping is the relationship between controls and their action or effect in the world.
- Consistency – Consistency means design icons should do similar task every time. It is easier to use and learn. Consistency is of two types – Internal and External
- Affordances – It is the properties of an object that indicates how it can be used. The Scroll down toolbar itself indicates that it is used to scroll down or up

## WORK DESIGN

Work design emphasizes on the user satisfaction. Knowing who your users are and what they want is the first, vital step in meeting their needs. It's very important for a system to match the user's task with the requirements.

Web Qual survey is used to assess the quality of the system. *Web Qual uses following parameters to ensure quality of web systems:*

- **Usability** - Usability is the study of the ease with which people can employ a particular tool or other human-made object in order to achieve a particular goal. It should be usable for all users and stakeholders (Administrator, Job Seeker, Employer).
- **Information** – The information that the system is providing should be relevant. Users must get all the information in proper manner for which they have come to use the system.
- **Interaction** - Interaction plays a vital role. Users will use the system only if it is interactive enough to engage the users. If the system is not interactive users will easily get frustrated and will stop using the system.
- **Convergence** - The web site should be easily converging.

## Current System

The present system requires applicants to search through print and visual media for job opportunities. Applicants need to apply for jobs using conventional methods and appear for interview on a specified date at a specified location. . In the current manual system job seekers had to send resumes and cover letters by mail, deliver them in person or fax them, and then wait for an interview request. Employers need to advertise the vacancies and sort all applicant details, conduct selection procedures and complete the formalities. The job application process took quite some time. This approach is tedious and requires much effort and resources. This process was equally frustrating for recruiters, as it often took some time to fill positions with qualified candidates. Online recruitment speeds up and makes the process much more efficient.

- Non availability of data when required.
- Resume sent manually, it is a waste of papers and consumes a lot of time
- No database/system to keep track of resume of candidate
- Difficulty to search for required job vacancy. It takes a long time for job seeker.
- Inviting applications through post takes a lot of time.

## Proposed System

The proposed system is a web based application which allows applicants and employers to register their details. Applicants can browse through the vacancy details that are posted and can apply for the jobs online. Employers can browse through the posted resumes and select suitable candidates.

- Filter, Search facility for job seekers according to their required vacancy.
- Daily updates via notifications and other communication media.
- Sending resume saves effort, time and cost of job seeker
- All vacancies are available on a single interface
- Job seeker can set privacy level for different companies
- Job seeker can save jobs according to their needs
- Most recent jobs are displayed on the home page
- Counting the number of times the resume of a job seeker is accessed by the company

- Ease of posting job vacancy by employer
- Ease of filtering applications that fit into eligibility criteria by scanning the resumes
- Ease of communication between job seeker and employer by internal messaging
- Easy generated reports

## Constraints

- The Interface is provided only in English. So, the user should know English..
- Login and password is used for identification of user and there is no facility for guest user.
- Registered users only have the rights to access the facilities provided by the system.
- The user can access Online Job Portal Management System from any computer that has internet connection and internet browsing capabilities.

## Assumptions

The application is developed by the developers by assuming the:

- The user have intermittent knowledge of computers and its interface.
- The computer has internet connection and internet browsing capabilities.
- The user knows English as GUI has been provided in English.
- Jobseeker should be from any fields. (We are using incremental model, So first we are making it only for jobseekers from IT fields.)

# Requirements

## Functional Requirements

### Job Seeker

S.No	Requirement	Description
1.	Registration	Jobseeker if wants to register to the site, a click on Register Now button will provide him with a registration form. After filling all the details in the registration form i.e. the mandatory ones which are marked by * has to be filled necessarily and the remaining may be left, user has to submit it by clicking on submit button. Notification via message will be displayed.
2.	Login	It allows only authorised people to access the application. When the user logs in to the system, the user has to enter login details in the specific username and password fields. The user clicks on login button and if id and password are validated, then the user is given access to the application and user profile is displayed.
3.	Forgot Password Option	If the user forgets the password, it can be retrieved by Forgot Password? Button. A click on this button will let to a security question and if the answer is verified. The message with correct password will be provided to the user.
4.	Search Jobs	The jobseeker can search for the required job by entering keywords, category, work status, location, qualification, categories, company, location, experience in the provided fields. A click on search button will

		display the result of all the jobs matching the job seeker's specification.
5.	Add CV	<p>Jobseeker has the option to either create his CV or post his own made CV. So, user is asked already Having CV or wants to create with? If a click on Upload CV button is made, it will enable the user to post his created CV on the site.</p>
6.	Create CV, Edit, Hide and Delete CV.	<p>As stated above, jobseeker has the option to create his CV or Upload own created CV. If the user clicks on create CV Option, a template is provided to the user in which user has to fill all his details. After filling all the details and clicking on submit button, the resume is posted to the site.</p> <p>Edit, Hide and Delete Resume options provided with Create CV lets jobseeker with some additional facilities for the resume which has been posted to the site.</p> <p>A click on <b>Edit CV</b> button helps the job seeker to do some amendments in the already created CV and then again submit it.</p> <p>A click on <b>Hide CV</b> option will let the jobseeker hide his CV from a particular company. The user has to enter in the particular field the name of the companies and then click on hide button.</p> <p><b>Delete CV</b> option will let the jobseeker his added or created CV from the site itself.</p>
7.	Create Job Agents and Receive Daily Notifications	<p>A trigger option is provided to the jobseeker i.e. jobseeker can create job agents by a click on Add Trigger option. Job agents notify the registered Job seekers via message with various job details and also</p>

		specified requirements of the job they opted for.
8.	Edit, Activate or Delete Job Search Agent.	<p>Edit, Activate or Delete Trigger options provided with Create Trigger lets jobseeker with some additional facilities for the already created job search agents.</p> <p>The jobseeker can edit job search agents by opting for <b>Edit Trigger</b> option. This will let jobseeker to modify the requirements of the job or make some changes in receiving notifications.</p> <p><b>Activate/Deactivate Trigger</b> allows the jobseeker whether or not to receive notifications via message.</p> <p><b>Delete Trigger</b> allows the jobseeker to delete the created job search agent and not to receive any messages for the job.</p>
9.	Save Jobs	As jobseeker receives daily notifications of jobs that match their keywords via job agent. The user can save jobs that interest them but do not want to apply at that particular point of time. A Click on Save Job button will put all the details of that job in the queue and the candidate can apply for it later on from the list.
10.	Arrange Job Search Results	As the jobseeker searches for a particular job and Saves it. He has the ability to arrange job search results When all the search results are with the user a click on date or location button allows the user to collect results by date or location.
11.	Apply for a Job	Jobseeker applies the job to particular company after submitting the resume and the required details. A notification to apply for a particular job according to his requirements is sent to the jobseeker. Job Seeker can apply for the job in the same company by clicking

		on the apply button with the notification.
<b>12.</b>	Set Privacy Level	Job seeker has the option to set 'privacy level' to control how much information is visible to employers through resume searches. The user has to set on Privacy Level while posting or creating CV and then check from a list of Private/Public/Confidential Resumes option.
<b>13.</b>	Resume View Reports	Job Seeker also has the option of Report Generation. As the user opts for Report generation a list of how often interested employers viewed the particular jobseeker's resume is provided to the jobseeker.

**Employer**

S.No	Requirement	Description
<b>1.</b>	Registration	For Employer registration to the site, a click on Register Now button will provide him with a registration form. After filling all the details in the registration form i.e. the mandatory ones which are marked by * has to be filled necessarily and the remaining may be left, user has to submit it by clicking on submit button. Notification via message will be displayed.
<b>2.</b>	Login	It allows only authorised people to access the application. When the user logs in to the system, the user has to enter login details in the specific username and password fields. The user clicks on login button and if id and password are validated, then the user is given access to the application and user profile is displayed.
<b>3.</b>	Forgot Password Option	If the user forgets the password, it can be retrieved by Forgot Password? Button. A click on this button will let

		to a security question and if the answer is verified. The message with correct password will be provided to the user.
4.	Search Resume	The Employer can search for the required job by entering keywords, category, job category, days since posted in the provided fields. A click on search button will display the result of all the resumes matching the employer's specification.
5.	Add a New Job	Employer collects the vacancy details and has the authority to Post jobs. A particular is posted by filling detailed job description such as job title, company name, location, salary, job type, work type, description, required skills, etc in the required fields.  If a click on Add Job button is made, advertisement for the new job will be posted on the website.
6.	Create Resume Agents	Employers and Recruiters have the ability to create multiple Resume Agents. When the Employer searches for the resumes by a keyword, the segregation of resumes that match their keywords is performed by these agents. For Example, Employer searches for resumes relates to Java with an experience of more than 2 years, first Resume Agent will collect resumes of Java and second of Java but with experience of more than 2 years.
7.	Generates Information on Time Left	As soon as the job is posted to the website, employer knows the time limit for which job is posted to the site. He thus posts the information on how much time left on each job posting. The System thus displays time left with each job posted.
8.	Information on	The Employer when sees different applications, an

	number of vacancy viewings	options is to view number of vacancies viewed is available with the employer. As employer clicks on it he is authorised to see the number of vacancy viewings and applications by him.
9.	Search, View or Download Resume	<p>Employers can <b>Search Resumes</b> for a particular job by filtering criteria and filling all the required fields. As the employer clicks on Search Button, all the Resumes within the criteria are displayed.</p> <p>After Searching, Employer now has the option to <b>View or Download Resume</b>. A click on any option will let him to view and check the resume.</p>

### Administrator

Sr. no	Requirement	Description
1	Manage jobseeker and employer module	Admin has the responsibility to manage the jobseeker as well as the employer modules. This includes managing their account, usernames and passwords etc.
2	Send Notification messages to employer and jobseeker	Whenever any user subscribes to the site as an employer or jobseeker, the admin will have to send them notification messages confirming their subscription.
3	Provide roles and authentication to users	The administrator provides usernames and passwords to the users and also the admin has the duty to make user of the website as an employer or jobseeker depending on the type of registration made by the user.
4	Ability to change website's interface look	The option to make modifications in the look and appearance of the website's interface relies in the hands of the administrator. This includes changing of menu items in the menu bar, display of contents and also the color if the interface.

**[JOB PORTAL MANAGEMENT SYSTEM]**

April 12, 2013

<b>5</b>	Send notifications to candidates, members, or employers	The administrator can send notifications to the subscribers regarding account details consisting of their subscriptions, creation dates, events, etc.
<b>6</b>	Automated message indicating that accounts have expired	The user's account will expire if it is not used for a specific time period. So the admin can send notifications to those users whose accounts have been expired and requires renewal or creation of new account.
<b>7</b>	Display recent jobs on homepage	The job offers on the website keeps changing. So, the admin has the duty to remove the old posts or dead posts and display new and recent job offerings on the homepage of the website.
<b>8</b>	Extensive usage report/stats	The admin also generates notification if the number of posts of resumes or number of sign ups to the website crosses a particular limit. This notification is referred as extensive usage report/stats.
<b>9</b>	Categorization of JOB postings	The website offers jobs of different categories. So, the admin will have to display the job offering posts in their specific categories so that user doesn't get confused regarding the scope and context of the job post.
<b>10</b>	Customization of search criteria	The search for job posts can be done using keyword search system and the matching job vacancy will be displayed to the user. The admin decides what jobs will be displayed on search using a particular keyword(s).
<b>11</b>	Apply Restrictions on Job Posting, Resume Search, Contact Info, Applicant Screening, Company Profile	The administrator can apply restrictions on the number of job postings to be displayed on the website's homepage at a time. The admin also decides what postings are to be removed and why. Also, the admin has the duty to display the

		details restricting display of contact details of the company or even the applicant and the company profile can be limited.
12	Control over what is displayed in nearly all dropdown lists and list boxes throughout the site	The admin can change the content of the dropdown lists and list boxes anywhere in the website. This can be done either to apply restrictions on few contents or to make the website free from unwanted and less important contents.
13	Generate reports If any	If any report is to be generated, for example, reports of the number of applicants or the number of resumes posted for a particular job post, it can be generated by the admin.

### Non-Functional Requirements:

- Secure access of confidential data by user name and password. This application is secure for every kind of its users, because if any user logout from any session then nobody will be able to access his profile without knowing his confidential password.
- 24 X 7 availability
- Better component design to get better performance at peak time.
- The database used here is robust, reliable & fast. So users will have to wait for the output very short time.
- This application can be accessed from any type of platform.
- There is no case of redundancy in the database so it will not take extra memory space.
- Username & password are sent to the users via mobile sms and email after registration.
- Password recovery system is also provided in case of forgetting the password.

### Hardware Requirements:

- Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional
- Processor: 2.6 GHz Intel Pentium IV or equivalent
- Memory: 2 GB
- Disk space: 1 GB of free disk space

### Software Requirements:

Software plays an important role in any project development. One should understand which software to use to develop the project. Windows 7 is used as an operating system. The application is developed using:

**Technology** : ASP .NET

**Database** : SQL SERVER

**IDE** : VISUAL STUDIO 2010

# PROCESS MODEL

## Introduction to Process Modelling:

Process modelling aims to graphically represent the processes which capture, manipulate, store and distribute data.

- Data flow diagrams
- Structured English
- Decision tables and decision trees

## Data Flow Diagrams:

Data flow diagrams model the flow of data into, through, and out of an information system:

- show the processes that change or transform data
- show the movement of data between processes
- represent a system as a network of processes which transform data flowing between them

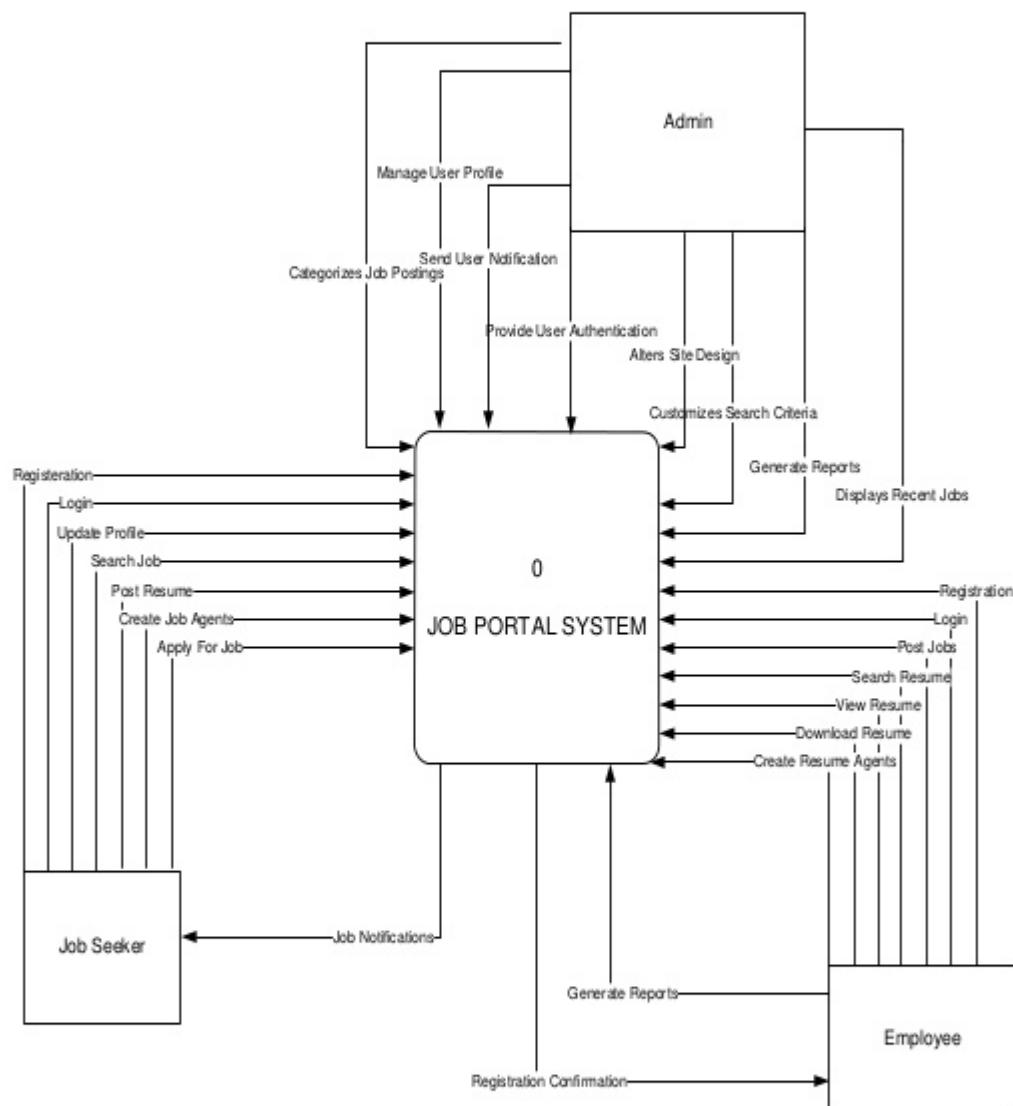
## Context Diagram:

The highest level data flow diagram is the context diagram.

- The context diagram shows the interaction of the system with its environment in terms of data flows
- The context diagram defines the boundary of the system (the scope of the system)
- Only the data flows which leave the system and the data flows which come from outside the system are shown.

# LOGICAL PROCESS MODEL

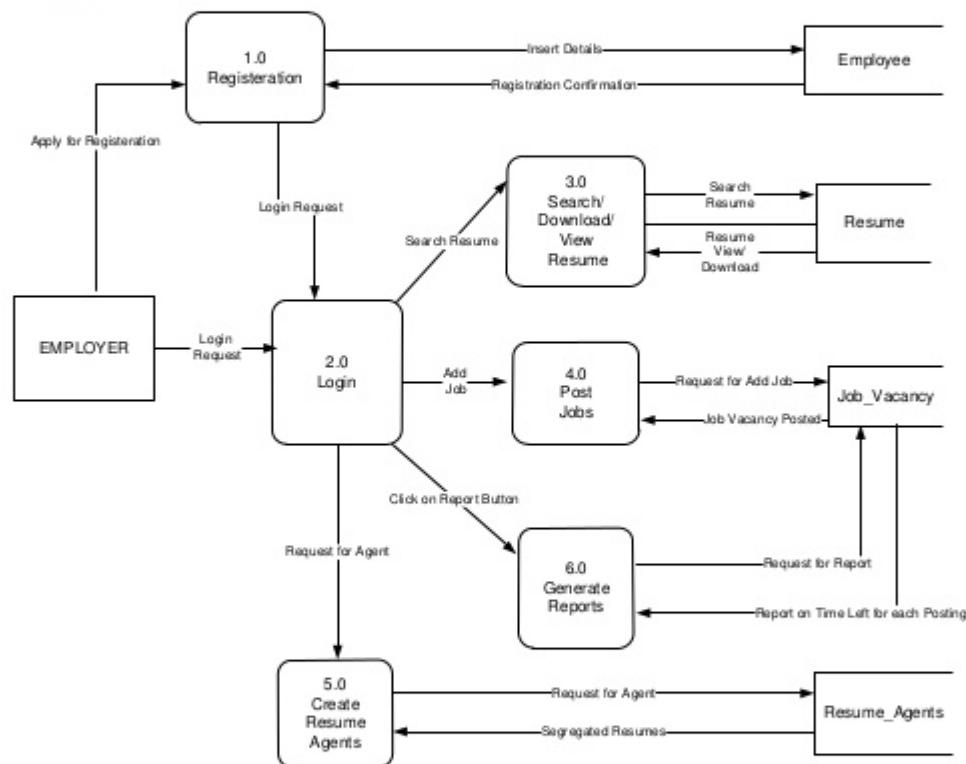
## CONTEXT DIAGRAM



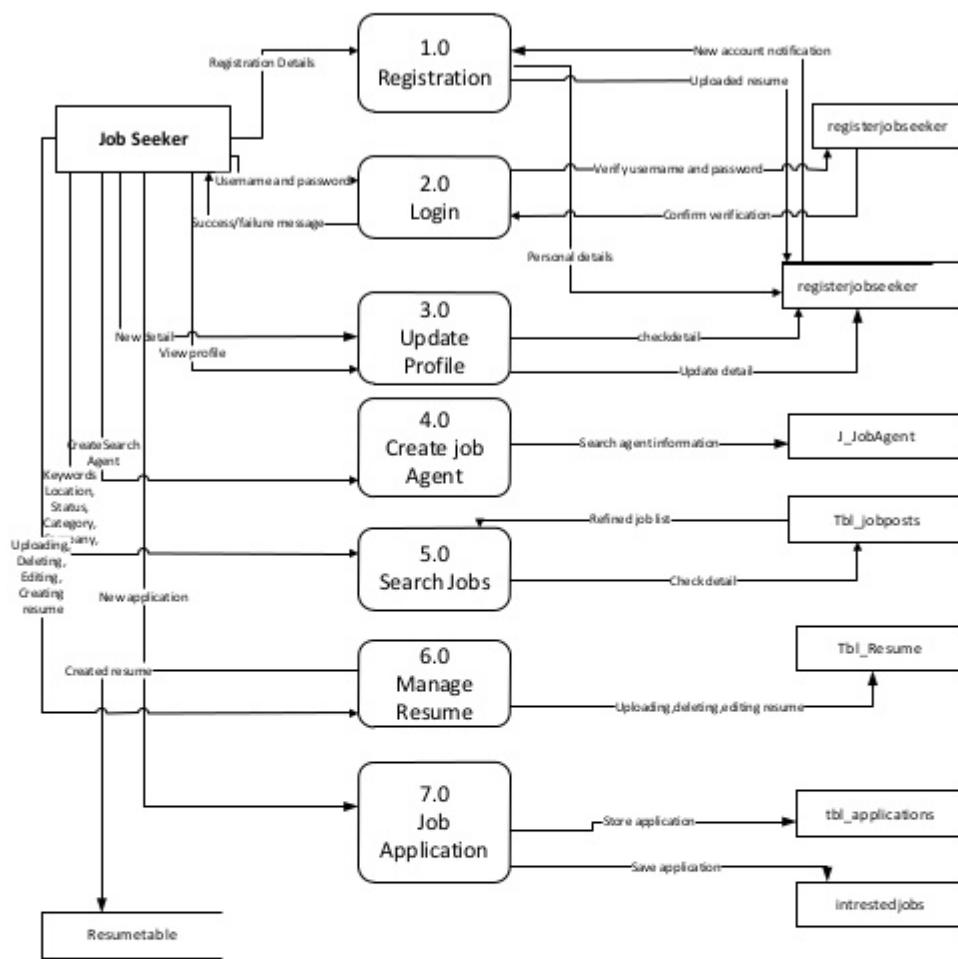
## LEVEL 0 DFD

- The level zero data flow diagram is the diagram at the level immediately below the context diagram.
- It "expands" the single process on the context diagram to show the major, high-level processes (or functions) within the system

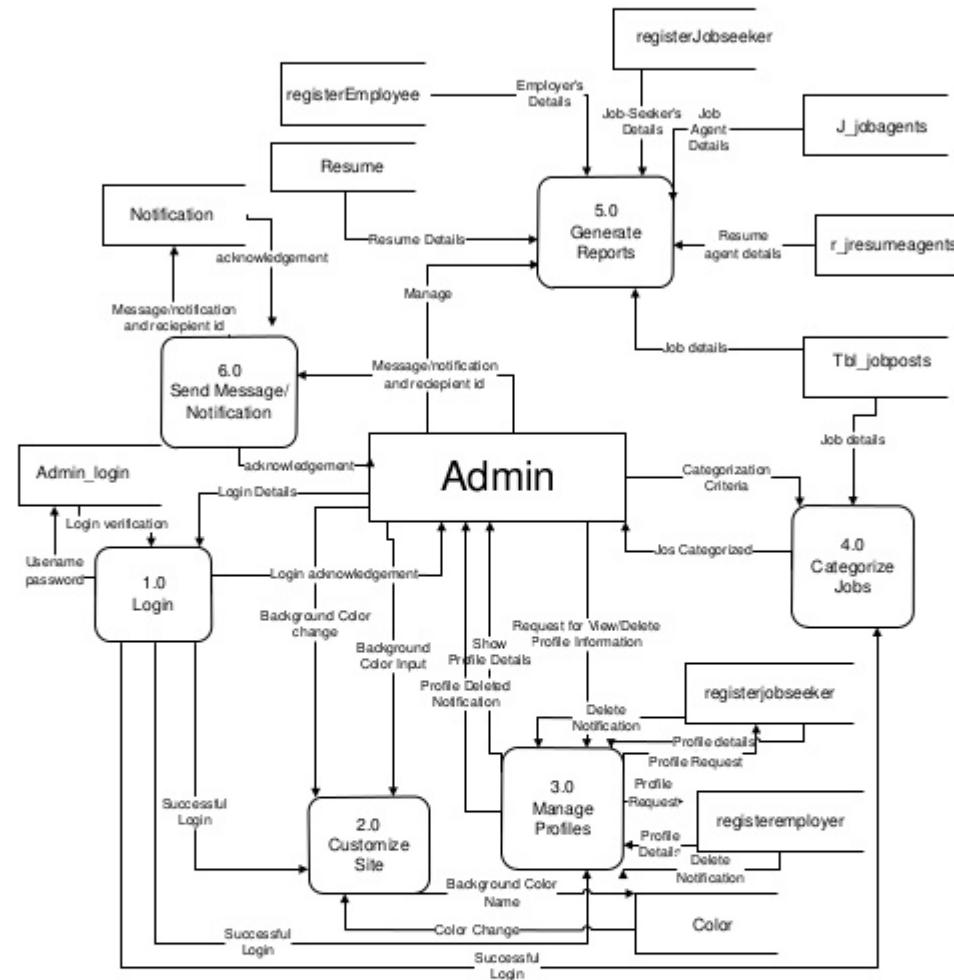
## Employer



## Job Seeker



## Administrator



# PROCESS SPECIFICATION

## DECISION TABLE

CONDITIONS	1	2	3	4	5	6	7	8
Registration done	N	Y	Y	Y	Y	Y	Y	Y
Admin Login	-	Y	-	-	-	-	-	-
Job Seeker Login	-	-	Y	Y	Y	-	-	-
Employee Login	-	-	-	-	-	Y	Y	Y
Post Jobs	-	-	-	-	-	N	Y	Y
Search Jobs	-	-	N	Y	Y	-	-	-
Upload Resume	-	-	-	N	Y	-	-	-
Search Resume	-	-	-	-	-	-	N	Y
ACTIONS								
Submit Registration Details	X							
User Validated		X	X	X	X	X	X	X
Customise Site	X							
Send Notifications	X							
Receive Notifications		X	X	X	X	X	X	X
Job Search Results				X	X			
Arrange Job Search Results				X	X			
Apply for Job					X			
Set Privacy Level on Resume					X			
View Resume Viewed					X			X
Download/View Resume								X
Provide User Roles		X						
Provide Info on Time Left for Job Posting							X	X

# DATA MODEL

## Introduction to Data Modelling:

Data modelling is the formalization and documentation of existing processes and events that occur during application software design and development. Data modelling techniques and tools capture and translate complex system designs into easily understood representations of the data flows and processes, creating a blueprint for construction and/or re-engineering.

A data model can be thought of as a diagram or flowchart that illustrates the relationships between data. Although capturing all the possible relationships in a data model can be very time-intensive, it's an important step and shouldn't be rushed. Well-documented models allow stakeholders to identify errors and make changes *before* any programming code has been written.

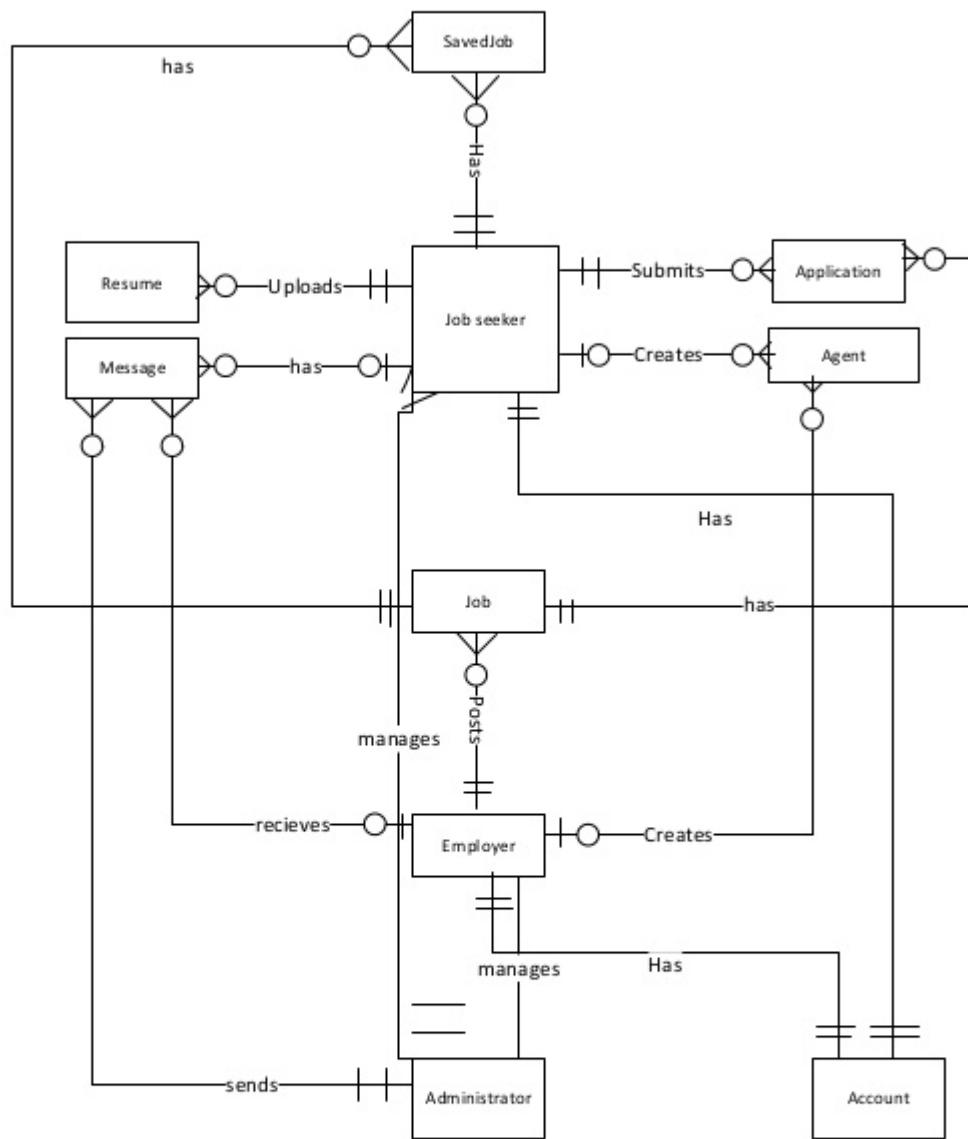
## Entity-relationship diagram:

An entity-relationship diagram is a data modelling technique that creates a graphical representation of the entities, and the relationships between entities, within an information system.

The three main components of an ERD are:

- The *entity* is a person, object, place or event for which data is collected. The entity is represented by a rectangle and labelled with a singular noun.
- The *relationship* is the interaction between the entities.. A relationship may be represented by a diamond shape, or more simply, by the line connecting the entities.
- The *cardinality* defines the relationship between the entities in terms of numbers.  
The three main cardinal relationships are: one-to-one, expressed as 1:1; one-to-many, expressed as 1: M; and many-to-many, expressed as M: N.

## ERD



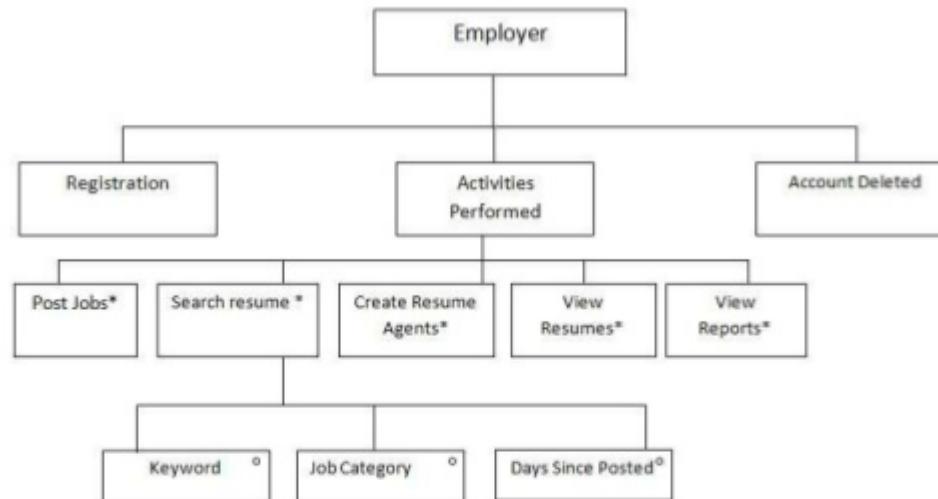
# EVENT MODEL

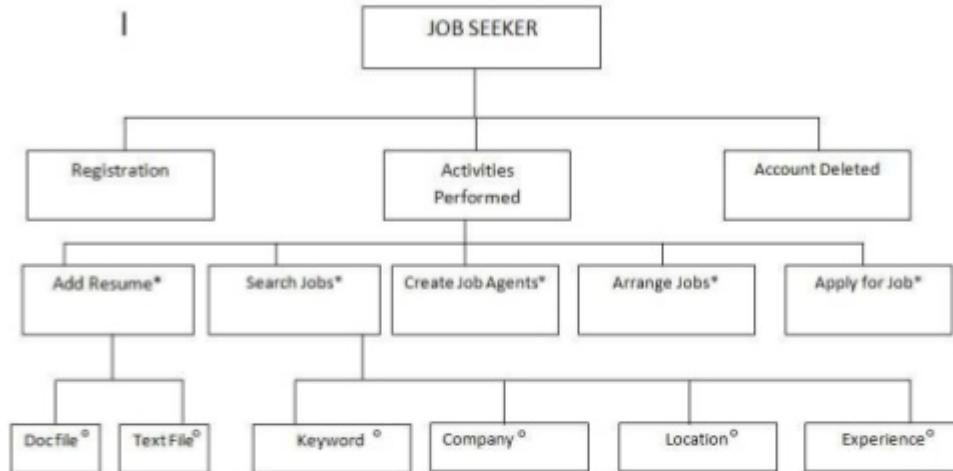
## ENTITY LIFE HISTORY

An entity life history is the behaviour of an object, or a class of objects that share the same behaviour. The stream of events affecting a persistent object is describable as an entity life history.

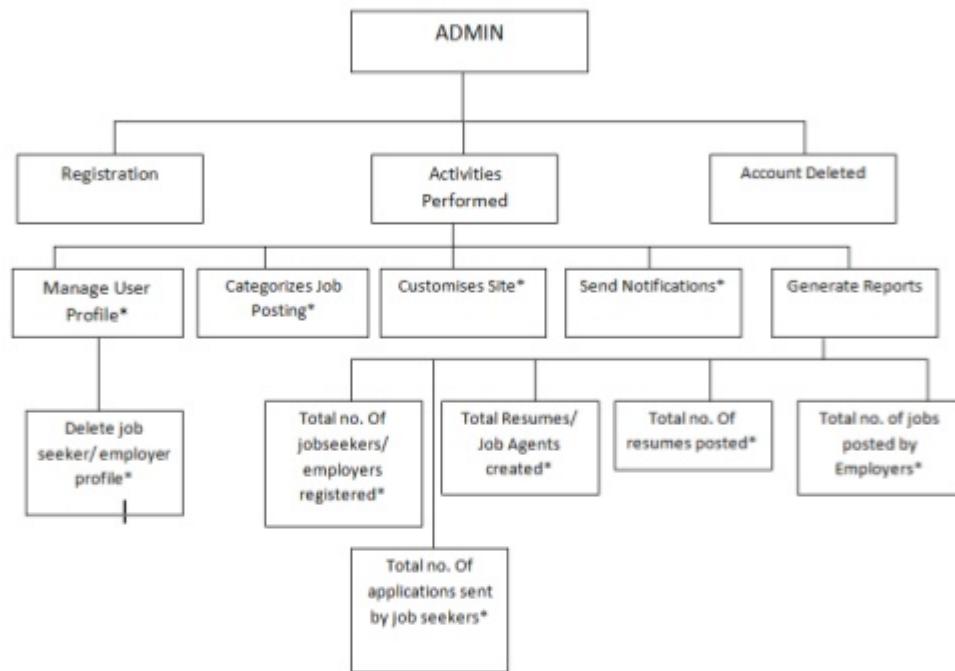
Entity life histories (ELHs) describe:

- Events that bring instances of an entity type into being; an instance of Member is created.
- Events that cause instances of an entity type to be modified; an instance of Member is modified.
- Events that cause instances to be deleted; an instance of Member is deleted.

**Employer:**

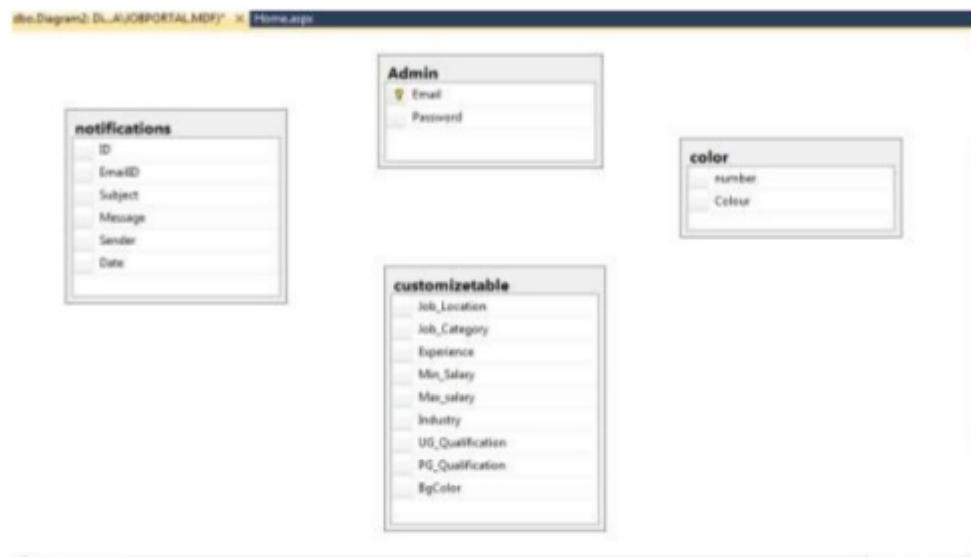
**Job Seeker:**

## Administrator



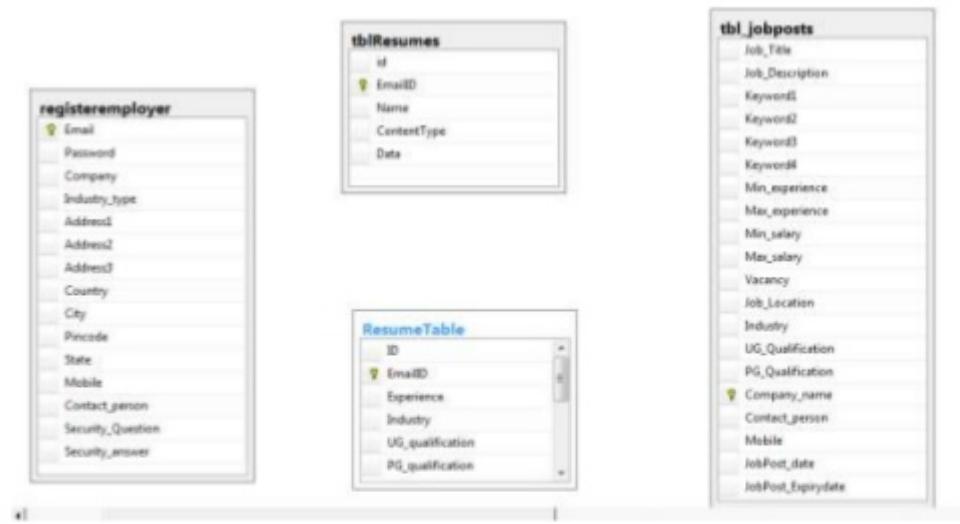
# DATABASE DESIGNS

## ADMINISTRATOR DATABASE



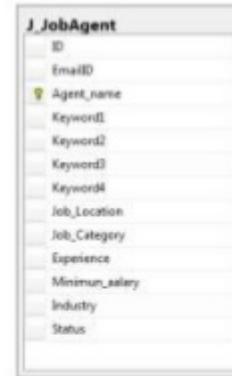
**[JOB PORTAL MANAGEMENT SYSTEM]**

April 12, 2013

**EMPLOYER DATABASE**

[JOB PORTAL MANAGEMENT SYSTEM]

April 12, 2013

**JOBSEEKER DATABASE**

# DESIGN PRINCIPLES

## INTERACTIVE SCREEN DESIGN WITH QUERY

### CREATE JOB AGENT

**INPUT:** Job seeker provides details for job agent like job agent name, keywords, job location, job category, experience required, salary, industry.

**OUTPUT:** Job agent is created and a confirmation window pops out with this message.

### QUERY:

```
string status = "ACTIVATED";
SqlCommand cmd = new SqlCommand("insert into J_JobAgent values(" + Label2.Text + "," +
txt_agent.Text + "," + txt_kw1.Text + "," + txt_kw2.Text + "," + txt_kw3.Text + "," + txt_kw4.Text + "," +
ddl_location.SelectedItem + "," + ddl_category.SelectedItem + "," + ddl_minexp.SelectedItem + "," +
ddl_minsal.SelectedItem + "," + ddl_industry.SelectedItem + "," + status + ")");
cmd.ExecuteNonQuery();
conn.Close();
Response.Write(@"<script language='javascript">alert('JOB AGENT CREATED
SUCCESSFULLY.')</script>");
```

## APPLY FOR JOB

Job Details								
	Job Title	Description	Experience	Salary	Vacancy	Location	Industry	Company
Select	Senior Maager	Manage clients and check staff reports daily	5	10	1	Agra	Telecom	GridInfo.com
Select	System Analyst	System analyst in projects	0	5	3	Mumbai	Software	IBM
Select	Database Handler	Database handling for the huge firm	2	10	2	Mumbai	Software/IT	TCS
Select	Designer	Java website designer	2	3	5	Chennai	Software/IT	Wipro

Apply for job. Enter the job title and company name you want to apply for:

Job Title:  Company Name:

Enter your name: PIYUSH

**INPUT:** The list shows the job details according to the job agent created by entering the keywords.

**OUTPUT:** The job seeker can apply from the list of the job vacancies provided to him by clicking on apply button. This is done by entering the name in the textbox and selecting the title of the job to be applied for. Job seeker can also save a particular job in the interested jobs list by making a click on add to interested jobs list.

## QUERY:

```
SqlCommand cmd1 = new SqlCommand("insert into tbl_applications values(" + ddl_title1.SelectedItem + "," + TextBox1.Text + "," + txt_name1.Text + "," + Label2.Text + ")", conn);
cmd1.ExecuteNonQuery();
conn.Close();
Response.Write(@"<script language='javascript'>alert('THANK YOU FOR APPLYING FOR THIS JOB.  
WE WILL SOON GET BACK TO YOU.')</script>");
```

## ADMIN MANAGE PROFILE

**INPUT:** This page helps admin to manage profiles of different users. Admin can also manage job posted by employers. Admin selects from the three different options available.

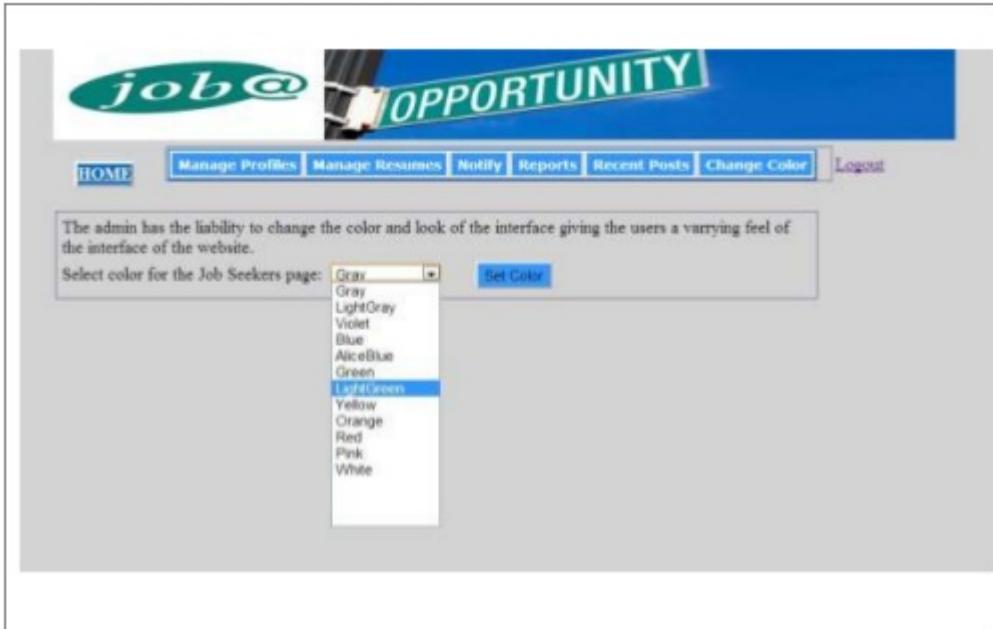
**OUTPUT:** As the admin selects from different options, and clicks on show data button and enters the email id , the data of the selected appears in the grid view with select and delete option. these are thus the two options available with the admin to manage profiles

**QUERY:**

```
// To display full registered jobseekers list
SELECT Email, FullName, City, Mobile, Basic_education, Security_question FROM registerjobseeker;

//Details of a particular jobseeker whose Email ID is known to the admin
SELECT Email, FullName, City, Mobile, Basic_education, Security_question FROM registerjobseeker
WHERE Email = "txt_email.Text";
```

## BACKGROUND COLOR CHANGE



**INPUT:** this screen helps the admin to customize site as admin has the authority to change the look of the site. Admin sets the color by set color button.

**OUTPUT:** Selecting the color from the drop down list and clicking on set color button will let the admin change the background color of whole of the site.

### QUERY:

```
// TO GET COLOR NAMES IN DROPODOWNLIST:  
Select BgColor FROM customizetable;  
  
// QUERY ON "Set Color" BUTTON  
protected void Button1_Click(object sender, EventArgs e)  
{  
    SqlCommand cmd = new SqlCommand("update color set Colour='" + ddl_color.SelectedValue + "' where number='1", conn);  
    cmd.ExecuteNonQuery();  
    conn.Close();  
}
```

## POST JOBS

**Job Posting**

Job Details: Specify details of job you are going to post.

Job Title:

Job Description:  (Maximum 50 characters)

Keywords:  These keywords will help jobseekers to search this job via keywords.

Work Experience: Minimum:  To: Maximum:

Annual CTS: Minimum:  To: Maximum:

Number of Vacancies:

Location(s) of Job:  New Delhi

Industry:  Accounting/Finance

Desired Candidate Page: Specify the kind of person you are looking for the job

Specify UG Qualification:  B.A.

Specify PG Qualification:  M.A.

Company Details

Company Name:

Contact Person:

Contact Number:

Job Post will expire by:  (mm dd yyyy)

**Post Job** **Cancel**

If the fields left are blank, validation is providing to

**INPUT:** This screen is for employer to post the jobs; employer has to specify all the details in the required fields or select from the drop down list.

**OUTPUT:** As the employer clicks on “Post Job” button, the filled data is sent to tbl\_jobposts. The job details are then available when the job seeker searches and the requirements are matched with the posted job requirements.

## QUERY:

```
String dt = System.DateTime.Now.ToString();
SqlCommand cmd = new SqlCommand("insert into tbl_jobposts values(" + txt_title.Text + "," + 
txt_desc.Text + "," + txt_keyword1.Text + "," + txt_keyword2.Text + "," + txt_keyword3.Text + "," + 
txt_keyword4.Text + "," + ddl_minexp.SelectedItem + "," + ddl_maxexp.SelectedItem + "," + 
ddl_minsalary.SelectedItem + "," + ddl_maxsalary.SelectedItem + "," + txt_vacancy.Text + "," + 
ddl_joblocation.SelectedItem + "," + ddl_industry.SelectedItem + "," + ddl_ug.SelectedItem + "," + 
ddl_pg.SelectedItem + "," + txt_companyname.Text + "," + txt_person.Text + "," + txt_contact.Text + 
"," + dt + "," + txt_expiredate.Text + ")", conn);
cmd.ExecuteNonQuery(); conn.Close();
```

## CREATE RESUME AGENT

The screenshot shows a web application interface for creating resume agents. At the top, there's a navigation bar with links for HOME, Post Jobs, Search Resume, View Reports, Resume Agent, Edit Profile, and Logout. A user 'User: abc@xyz.com' is logged in.

The main content area has a heading 'Here you can create your own resume agent which will filter details of JobSeekers along with their resume according to the details you provide. The resume agent created by you will work like a search agent set to default criteria mentioned by you. You can also modify the resume agent specifications.' Below this, there are two options: 'If you have already created your resume Agent(s), Click Here' or 'OR Create a new resume agent now. Create Resume Agent'.

Form fields include:

- Select Job Agent: XYZ Agent
- Agent Name: XYZ Agent
- PO\_Qualification: M.Tech/M.E
- Experience: 0
- Industry: Media/Entertainment
- Skills Required: python, oracle, ms access, sql

A button 'Update Details' is present. Below the form is a table showing resume agent details:

EmailID	Experience	Industry	UG_qualification	PG_qualification
js@job.com	3	Architecture	B.A	M.A
pd@job.com	4	Business Solutions	B.A	M.A
qwert@sysiop	5	Software and IT	B.Tech/B.E	M.Tech/M.E

[Download Resume](#)

**INPUT:** this screen helps the employer to create resume agents. The resume agents will help to filter details of Jobseekers as the employer provides the details in the required fields. There are two options provided, first is to click on already created resume agent and another to create a new agent.

**OUTPUT:** As the user clicks on already created agent, he can update the details or add details for a new agent. Different resumes information matching the search criteria appears in a grid view. Employer can then download a particular resume from the provided list.

## QUERY:

```
SqlCommand cmd = new SqlCommand("insert into E_ResumeAgent values('"+Label2.Text+"','"+
txt_agent.Text+"','"+ddl_ug.SelectedItem+"','"+ddl_pg.SelectedItem+"','"+ddl_maxexp.SelectedItem+"',
"+ddl_industry.SelectedItem+"','"+txt_kw1.Text+"','"+txt_kw2.Text+"','"+txt_kw3.Text+"','"+
txt_kw4.Text+"')", conn);
cmd.ExecuteNonQuery();
conn.Close();
Response.Write(@"<script language='javascript">alert('RESUME AGENT CREATED
SUCCESSFULLY.')</script>");
Panel2.Visible = true;
```

## VALIDATIONS

The screenshot shows a registration form for employers. The fields include:

- Email ID: \* Fill Detail
- Password: \* Fill Detail
- Company Name: \* Fill Detail
- Industry Type: \* Fill Detail
- Address: \* Fill Detail
- Country: \* Fill Detail
- City: \* Fill Detail
- State: \* Fill Detail
- Mobile Number: \* Fill Detail
- Contact Person: \* Fill Detail

A validation error message box is displayed, listing the same validation errors for each field.

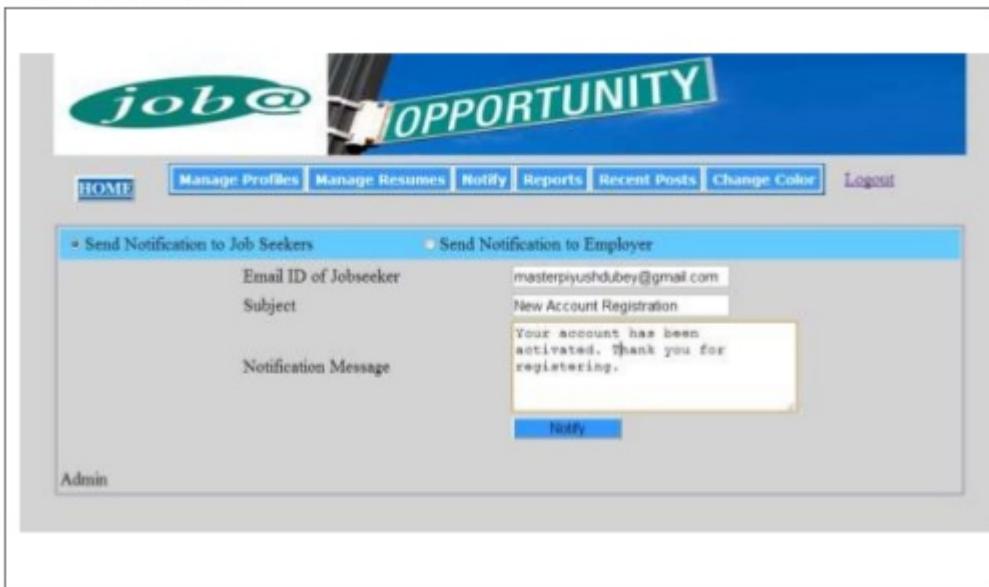
**INPUT:** This is the employee registration page. Employer has to fill all the details for creating a new account. Email id of the employer acts as the user name while login into the system.

**OUTPUT:** After entering all the fields user will show up with a message with the user name and password, else if any field is left blank, message appears to the user.

**QUERY:** Required Field Validations has been used to implement this functionality. If any text box is left unfilled prior to the registration, a validation error is displayed with message “\* Fill Detail” and a pop up window is displayed along with the error summary.

```
If(textBox.text=="")
{
Label1.text="* Fill Detail";
}
Else
{
// Registration complete}
```

## NOTIFICATIONS



**INPUT:** The admin of the site can send notification to the employers as well as to the job seekers. The admin will need to provide the email id of the user he/she wants to send the notification to.

**OUTPUT:** the message is sent to the notifications table along with the details of the sender and the message subject.

## QUERY:

```
SqlCommand cmd = new SqlCommand("insert into notifications values('" + TextBox1.Text + "','" + TextBox5.Text + "','" + TextBox2.Text + "','" + Label1.Text + "','" + System.DateTime.Now.Date + "')", conn);
cmd.ExecuteNonQuery();
conn.Close();
```

## EDIT PROFILE

The screenshot shows a web application interface for 'Job@OPPORTUNITY'. At the top, there's a navigation bar with links: HOME, Post Jobs, Search Resume, View Reports, Resume Agent, Edit Profile, and Logout. Below the navigation bar, it says 'Your Email ID: abc@xyz.com'. A gridview table contains the following data:

Email	abc@xyz.com
Password	abcd
Company	ITC
Industry_type	FMCG Goods
Address1	salt lake
Address2	near howrah bridge
Address3	opp to tata
Country	India
City	kolkata
Pincode	723231
State	WB
Mobile	7293729379
Contact_person	Mamta Banerjee

At the bottom of the gridview, there are two buttons: 'Update' and 'Cancel'.

**INPUT:** when the employer selects this option to edit the profile details, the details automatically gets filled in the gridview texboxes after being retrieved from the table registeremployer.

**OUTPUT:** There is an update and cancel biutton. if the user selects the update button and enters values in the text boxes, the table registeremployer gets updated with the provided data.

## QUERY:

```
SqlCommand cmd2 = new SqlCommand("update registeremployer set Email='" + TextBox1.Text + "',  
Password='" + TextBox2.Text + "', Company='" + TextBox3.Text + "' Address1='" + TextBox4.Text + "',  
Address2='" + TextBox5.Text + "', Address3='" + TextBox6.Text + "', Country='" + TextBox7.Text + "', City='"  
+ TextBox8.Text + "', Pincode='" + TextBox9.Text + "', State='" + TextBox10.Text + "', Mobile='" +  
TextBox11.Text + "' where Agent_name='" + agentname.Text + "'", con1);  
cmd2.ExecuteNonQuery();
```

## PASSWORD RECOVERY



**INPUT:** the employer as well as the jobseeker can recover their passwords if they forget it. by providing answer to the security question password can be retrieved.

**OUTPUT:** on click of the “Get password” button, the query fired in backend checks for the authentication of the correct data. if answer is correct, the password is displayed on the screen in a message box and label too.

## QUERY:

```
protected void Button2_Click(object sender, EventArgs e)
{
    s = WebConfigurationManager.ConnectionStrings["ConnectionString-JobPortal"].ConnectionString;
    con1 = new SqlConnection(s);
    con1.Open();
    SqlCommand cmd = new SqlCommand("Select * from registerjobseeker where Email=" + TextBox2.Text
+ "", con1);
    SqlDataReader dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        Label1.Text = dr["Security_question"].ToString();
    }
    dr.Close();
    con1.Close();
}
protected void Button1_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString-
}
```

```
JobPortal"].ConnectionString);
con.Open();
SqlCommand cmd = new SqlCommand("select * from registerjobseeker where Email =@username and
Security_answer=@answer", con);
cmd.Parameters.AddWithValue("@username", TextBox2.Text);
cmd.Parameters.AddWithValue("@answer", TextBox1.Text);
SqlDataAdapter da = new SqlDataAdapter(cmd);
DataTable dt = new DataTable();
da.Fill(dt);
if (dt.Rows.Count > 0)
{
    s = WebConfigurationManager.ConnectionStrings["ConnectionString-JobPortal"].ConnectionString;
    con1 = new SqlConnection(s);
    con1.Open();
    SqlCommand cmd2 = new SqlCommand("Select * from registerjobseeker where Email=" +
TextBox2.Text + "", con1);
    SqlDataReader dr = cmd2.ExecuteReader();
    while (dr.Read())
    {
        Label2.Text = dr["Password"].ToString();
        Response.Write(@"<script language=javascript>alert('Your Password is:
"+Label2.Text+""")</script>");
    }
    dr.Close();
    con1.Close();
}
```

### Search job by qualification requirements

The screenshot shows a web-based job portal interface. At the top, there's a navigation bar with links for HOME, Create Resumes, Update Profile, Search Jobs, Job Agents, Reports, and Logout. Below the navigation bar, there are four search options: Search by keywords, Search by company name, Search by Qualification (which is selected), and Search by Location. A sub-section titled "Search Jobs based on Academic Degree you have" allows users to filter by UG Degree of Certification (B.A) and PG Degree of Certification (M.Tech/M.E). A "Button" is present below these filters. The main content area displays a grid of job posts with columns for Job Title, Job Description, Min\_experience, Max\_salary, Vacancy, Job\_Location, Industry, Company\_name, and Contact\_person. The data in the grid is as follows:

Job Title	Job Description	Min_experience	Max_salary	Vacancy	Job_Location	Industry	Company_name	Contact_person
Senior Manager	Manage clients and check staff reports daily	5	10	1	Agra	Telecom	GridIndicom	Ram Kumar
Manager	Manager for the area of development	1	2	1	Bengaluru	Software IT	HCL	Reddy Sir
Head Clerk	Clerk job in HDFC Bank	0	4	10	Mumbai	Banking Banking	HDFC Bank	Sugan
System Analyst	System analyst in projects	0	5	3	Mumbai	Software	IBM	Mr. Sanjeev
Database Handler	Database handling for the huge firm	2	10	2	Mumbai	Software IT	TCS	Mr. Bansal
Designer	Java website designer	2	3	5	Chennai	Software IT	Wipro	Ajenn Premji

**INPUT:** This is the page for job seeker where he has the option to search for job using different criterion, the job seeker has to select from the drop down list and then click on the button.

**OUTPUT:** A click on button will retrieve the data from table job posts and appear in a grid view with all the details of the posted jobs that matches the search criterion.

### QUERY:

```
SELECT [Job_Title], [Job_Description], [Min_experience], [Max_salary], [Vacancy], [Job_Location],
[Industry], [Company_name], [Contact_person] FROM [tbl_jobposts] WHERE (([UG_Qualification] =
@UG_Qualification) OR ([PG_Qualification] = @PG_Qualification))
```

# PROGRAMMING ENVIRONMENT

## FRONT-END

ASP.Net

## Development Tool

Microsoft Visual Studio 2010

### Reason for selecting ASP.Net as Front End

- It provides better performance by taking advantage of early binding, just-in-time compilation, native optimization, and caching services right out of the box.
- The ASP.NET framework is complemented by a rich toolbox and designer in the Visual Studio integrated development environment. WYSIWYG editing, drag-and-drop server controls, and automatic deployment are just a few of the features this powerful tool provides.
- It is purely server-side technology so, ASP.NET code executes on the server before it is sent to the browser.

**BACK-END**

SQL SERVER

**Development Tool**

Microsoft SQL Server 2008

**Reason for selecting Microsoft SQL Server 2008 as Back End**

- It does support Multiple Active Result Sets (MARS).
- It has been enhanced in such a way that developers program more powerful and error resistant SQL code with structured exception handling. Performance of query execution is much faster as compared to SQL Server 2000.
- It supports Integration of the .NET common language runtime (CLR). By default it is off, we explicitly need to start from configuration setting. It has a new XML data type as well as new varbinary (max) data type.

## CONCLUSION

At last it can be concluded that the Job Portal System was a real learning experience. The principles of software production were well implemented throughout the system. The whole project undergoes with full of enthusiasm and with full of joyous moments. The project has been made as per as the given specification. The system has been made as user friendly as possible by the use of HCIU principals. That is why Management holds an important place in the software production.

Working on the Project was really a learning experience and we have come a long way in building our concepts of Software engineering. The “Job Portal System” developed by us is purely based on ASP.net platform. The overall purpose of this system is to computerized the whole process and thus prevent the intervening errors. We also tried to follow the holistic design principle so that the interface of the system is simple.

During the course of this assignment we have gone through many obstacles which made us to research and though increased our knowledge. After applying all the data modelling, object modelling and process modelling techniques now we are very well clear with all these concepts and fundamentals which will be going to help us in the future.

# BIBLIOGRAPHY

## BOOK REFERENCING

- Stephen walther (2008). ASP.NET 3.5 Unleashed. India: Dorling Kindersley.1797
- Chris Payne(2002).ASP.NET in 21 days: G.C. Jain for Techmedia.939
- Ian Sommerville (2008). Software Engineering. 7th ed. Delhi: Pearson Education Ltd.
- S.Valacich, Joseph, F.George, Joey, and A. offer, Jeffery, 2005. Essentials of System Analysis And Design. 2nd ed. New Delhi: Prentice-Hall of India Private Limited.

## WEB SITE REFERENCING

- (1995). *Asp tutorials*. Available: <http://w3schools.com/asp/default.asp>.
- (2004). *ASp.net and sql*. Available:<http://www.tutorialized.com/tutorial/Connecting-to-a-SQL-database-from-ASP-.NET-II/5745>.
- De Montfort University. 2010. Purpose of WISDM. [ONLINE] Available at:[http://www.ccsr.cse.dmu.ac.uk/conferences/ethicomp/ethicomp2010/abstracts/ethicomp2010\\_ramrattan\\_ramrattan\\_patel\\_hussain.php](http://www.ccsr.cse.dmu.ac.uk/conferences/ethicomp/ethicomp2010/abstracts/ethicomp2010_ramrattan_ramrattan_patel_hussain.php). [Accessed 13 March 13].

# APPENDIX

Upcoming SlideShare

Loading in ...5

x

— 1 of 62 —

—

[Education, Business, Technology](#)

83,370 views

Apr. 12, 2013

[Like Liked](#)

[Share](#)

—

# JOB PORTAL SYSTEM

JOB PORTAL MANAGEMENT SYSTEM- a prototype of naukri/monster.com . project developed in c# and documented well for reference.

please have a look

[Read more](#)



[masterpiyush](#)

[Follow](#)

- [67 Comments](#)
- [149 Likes](#)
- [Statistics](#)
- [Notes](#)



Full Name

Comment goes here.

12 hours ago [Delete](#) [Reply](#) [Block](#)

Are you sure you want to [Yes](#) [No](#)

Your message goes here



[Share your thoughts...](#)

[Post](#)

- *Login to see the comments*



[ABHIRAMIKS4](#)

[21 hours ago](#)



[ssusereeeae1e1](#)

[2 months ago](#)



[Mukul Kirti Verma](#)

[4 months ago](#)



[PriyankaM89](#)

[7 months ago](#)



[AkshatChaturvedi22](#)

[7 months ago](#)



[Show More](#)

No Downloads

#### Views

Total views

83,370

On SlideShare

0

From Embeds

0

Number of Embeds

124

#### Actions

Shares

0

Downloads

0

Comments

67

Likes

149

No notes for slide

## JOB PORTAL SYSTEM

1. 1. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 PANIPAT (HARYANA – INDIA) – 132  
103 GROUP ASSIGNMENT Module Code : (CE00321-2) “JOB PORTAL MANAGEMENT SYSTEM”  
GROUP # 6 Level 2Hand out date: 6-February-2013 Hand in date: 12-April-2013Submitted To:  
Submitted By: -Mr. Ankur Singla Jigyasa Saluja (PT1081114)(Module Lecturer) Piyush Kumar  
(PT1081156) Himanshu Agrawal (PT1081122)SDM Group Assignment 1
2. 2..[JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013CERTIFICATEThis is to be certified that  
the following under mentioned students of APIIT SD INDIA havesuccessfully completed the project of  
System Development Methods. They have maintainedall guidelines set by “STAFFORDSHIRE  
UNIVERSITY”. Their project has been submittedin the given span of time. They have adopted no foul  
means to complete their project.I hereby declare that I have been handed over the project along with all  
necessarydocuments. I wish them good luck in all their future projects. Submitted To:- Submitted By:- Mr.

Ankur SinglaJigyasa Saluja (PT1081114) (Module Lecturer)Piyush Kumar (PT01081156) System Development MethodsHimanshu Agrawal (PT1081122)SDM Group Assignment 2

3. [3. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013  
**ACKNOWLEDGEMENT**It was a great experience working on the project of “System Development Methods”. We express our heartiest gratitude towards those who were constantly involved with us during our project. APIIT SD India, Panipat, will always occupy a special place in our heart, throughout our career, for both personal and professional reasons. The phenomenon remains same that no project ever can be executed proficiently and efficiently without sharing the meticulous ideas, technical expertise and innovative thoughts put forwarded by the technical and non-technical veterans. Whenever a technical project is developed, eventually it requires conductive technical environment and technical guidance to get involved in the assigned project enthusiastically. We are also grateful to all the APIITIAN lecturers for being extremely friendly and cooperative during the entire course of our project. Their continuous help and support made the project much easier. There are no exact words to express our regards and legitimate gratitude to one of our esteemed techno personality, without him this project could not get an entrance towards the execution. Mr. Ankur Singla is the pioneer who availed this magnificent option to us to move ahead. He has always inspired and guided us for the right track to be followed for all the system analysis section of this project. We are indebted to him for giving us this great opportunity to pursue our 6th semester project. Lastly, we would like to thank all those whose names may not have appeared here but whose contribution has not gone unnoticed. We would like to thank all of them, for their help in various ways. Submitted By: - Jigyasa Saluja (PT1081114) Piyush Kumar (PT01081156) Himanshu Agrawal (PT1081122)SDM Group Assignment 3

4. [4. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013  
**TABLE OF CONTENTS**
- |   |      |
|---|------|
| 1. INTRODUCTION.....  | 6    |
| 2. PURPOSE.....   | 7    |
| 3. OBJECTIVE.....   | 7    |
| 4. SCOPE.....   | 7    |
| 5. MODULES.....   | 8    |
| 6. PLANNING.....  | 9    |
| 7. CHART.....   | 9    |
| 8. DISTRIBUTION.....  | 11   |
| 9. MATRIX.....  | 12   |
| 10. METHODOLOGY.....  | 13   |
| 11. CURRENT SYSTEM.....   | 15   |
| 12. SOLUTION.....   | 20   |
| 13. REQUIREMENTS.....   | 22   |
| 14. REQUIREMENTS .....  | 22   |
| 15. REQUIREMENTS .....  | 29   |
| 16. REQUIREMENTS.....   | 30   |
| 17. REQUIREMENTS.....   | 30   |
| 18. MODEL.....  | 31   |
| 19. MODEL.....  | 32   |
| 20. DIAGRAM.....  | 32   |
| 21. SPECIFICATION.....  | 36   |
| 22. TABLE.....  | 36   |
| 23. MODELS.....   | 37   |
| 24. RELATIONSHIP DIAGRAM.....   | 38   |
| 25. MODEL.....  | 39   |
| 26. HISTORY.....  | 40   |
| 27. DESIGN.....   | 43   |
| 28. DATABASE.....   | 43   |
| 29. DATABASE.....   | 44   |
| 30. <u><a href="#">5. [JOB PORTAL MANAGEMENT SYSTEM]</a></u> April 12, 2013 | 10.3 |
| 31. DATABASE.....   | 45   |
| 32. <b>JOBSEEKER</b>  |      |
| 33. <b>DESIGN</b>   |      |
| 34. <b>SDM Group Assignment 4</b>   |      |

PRINCIPLES.....	46	11.1 INTERACTIVE
SCREEN DESIGN ALONG WITH PSEUDOCODE.....	46	12. PROGRAMMING
ENVIRONMENT.....	58	12.1 FRONT –
END.....	58	12.2 BACK –
END.....	59	13.
CONCLUSION.....	60	14.
BIBLIOGRAPHY.....	61	15.
APPENDIX.....	62	15.1 WEEK
DISTRIBUTION 15.2 BIWEEKIESSDM Group Assignment 5		

6. [6. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 INTRODUCTION Technology is constantly changing. Society as we know it depends on this fact. That which we take for granted today would have been the stuff of science fiction as little as fifty years ago. In fifty years time, we will doubtless be excited, perturbed and baffled by yet more new developments. In the early years of the twenty first century, it is computers and the Internet that have captured the public imagination, and found their way into not just the working environments, but increasingly into the domestic spaces. In this modern society, if we are not capable to cope up with these changes than we are not going to stand or survive anywhere in this technical world. Today there is no place for errors, so as to make a system more effective and efficient we need such technology where error-prone chances must be least. In the scenario of the assignment, we are required to develop a web-based application on Job Portal Management System. In this time of recession where everyone, is either experienced or fresher, is in search for a job. This job portal can prove to be very helpful since it allows users of different profile to upload their CVs, search job on the basis of their qualification. Every user can access through user id and apply for multiple jobs at a time. Currently, we are working on a manual system where data is stored in the form of registers. Viewing available jobs, or applying for the job at the agency can be done for which job seekers has to go to the agency and check the available jobs at the agency. Job seekers check the list of jobs available and apply the job. Then the agency will show available jobs for the job seeker for his qualifications and then updates the jobs database. The developed Job Portal management system is web-based which Requires Employee Registration & Profiles, Job Search, Employer Registration & Profiles, and Subscription Option for both Employee and Employer etc. Employer can add Own Profile and post jobs and Job Seeker can Search Jobs based on Geographical Area (Country, State, and City), Qualification, and Company wise or on the Basis of Experience and Expertise wise. SDM Group Assignment 6
7. [7. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 Purpose The purpose of designing the online job portal is to give the job seekers a platform for finding a right and a satisfactory job according to their qualification. It also connects the job seekers with the major agencies. It also provides Jobs portal for Job Seekers to submit their CV and apply for job posting and Employer can select best Employees from Available CV based on their payment option selection. This is basically a Job portal where job Seeker applies for jobs and employer posts jobs and select prospective applicant. Job portal is prepared for provide all categories of job and help to get various type of job. The main purpose of job portal is to provide the facility to job seekers for getting the quick job. So, it enables applicants to search for jobs in a convenient manner and to enable employers to find suitable candidates. Objective The objective of the application is to develop a system using which job applicants and recruiters can communicate with each other. An Online Job Portal is an application where the job seekers can register themselves at the website and search jobs which are suitable for them where as the employers register with the website and put up jobs which are vacant at their company. The Online Job Portal System is a package to be used by agencies to improve the efficiency of business. The Online Job Portal System to be developed benefits greatly the members. The system provides jobs catalogue and information to members and helps them decide on the jobs to apply. The Admin and employers can keep the jobs catalogue updated all the time so that the Job seekers get the updated information all the time. Scope The Scope for the system can be as follows:- Maintain Job Seeker and Employer records Maintain uploaded Resumes Provide Customized Job Postings Maintain Job Posting details and generate various reports SDM Group Assignment 7
8. [8. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 Modules The application comprises the following major modules: Job Seeker Module This module provides functionalities for job seekers. Applicants can post their resumes with personal and professional details. They can also update the resume as frequently as required. The applicant can also browse through the present vacancies available. Job

seekers can also get mail alerts when their resumes are selected by employers. Employer Module This module provides functionalities related to employers. Employers can post vacancy details and update the details as and when necessary. Employers can search through applicant resumes based on different criteria. Administration Module: This module provides administrator related functionalities. Administrator manages entire application and maintains the profiles of applicants and employers. SDM Group Assignment 8

9. [9. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 SCHEDULE PLANNING GANTT CHARTS  
SDM Group Assignment 9
10. [10. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 SDM Group Assignment 10
11. [11. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 WEEK DISTRIBUTION Deliverable A  
Deliverable is a term used in project management to describe a tangible or intangible object produced as a result of the project that is intended to be delivered to a customer (either internal or external). A deliverable could be a report, a document or any other building block of an overall project. (Final Output) Milestone A deliverable differs from a project milestone in that a milestone is a measurement of progress toward an outcome whereas the deliverable is the result of the process. For a typical project, a milestone might be the completion of a product design while the deliverable might be the technical diagram of the product.  
(Intermediate Output) S.No Task Week Milestone/Deliverable 1. Planning and analysis Current System Analysis Week - 1 Current System Flaws Project Planning Week – 1 Proposed System Requirement Analysis Week - 2 Hardware, Software Requirement Specification 2. Designing and Coding Logical Design Week - 4 DFDs, ERDs, Decision Table Physical Design Week – 5 - 6 Storyboards 3. Implementation Working with Front - End Week – 5 - 6 Prototype Working with Back - End Week – 6- 7 Developed System 4. Validation and Testing Test Plans Week - 8 Errors in the System Test Scenarios Week - 9 Final Product 5. Final Presentation Week - 10 Demonstration SDM Group Assignment 11
12. [12. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 WORKLOAD MATRIX SDM Group Assignment 12
13. [13. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 SELECTION OF METHODOLOGY  
System development methodologies are promoted as a means of improving the management and control of the software development process, structuring and simplifying the process, and standardizing the development process and product by specifying activities to be done and techniques to be used. Hence for the development of Project Management System, “Web Information System Development” methodology has been selected, because the system is web-based. Website building is more complicated than a simple software building and WISDM includes almost each phase (that contains certain activities) that is required to build a website. STRUCTURE WISDM Multiview framework SCOPE WISDM covers almost each and every step required for website development that includes from organizational analysis to work design and technical design. It ensures that we will be going through HCI process which is beneficial and recommended for website design. SDM Group Assignment 13
14. [14. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 DESCRIPTION  
A system development methodology refers to the framework that is used to structure, plan, and control the process of developing an information system. A wide variety of such frameworks have evolved over the years, each with its own recognized strengths and weaknesses. One system development methodology is not necessarily suitable for use by all projects. Each of the available methodologies is best suited to specific kinds of projects, based on various technical, organizational, project and team considerations. Receiving the project, allotment of the projects to the right expertise, to conduct the meeting at regular intervals to track their progress and document management for projects is being performed as a web based so that the manually done entire difficult task will be minimized. So as per our requirement for web based approach we have selected WISDM Methodology Web information system development methodology (WISDM) Web-based Information Systems Development methodology has derived a concept from hypermedia development methodology. Usually, hypermedia is a combination of rich texts, graphics, audio, video, and so forth by using the concept of a hyperlink in order to provide a crossreference and navigation to other pages or sections of the application. Any hypermedia design and development methodology should be able to adopt the development of a Web-based Information Systems. PURPOSE Firstly, the original purpose of Web-based development is to build an alternative type of medium that extends a channel of communication to online publishing purpose for internal and external stakeholders. In addition,

the purpose of the Information Systems development is to facilitate business transactions and operation of an organization. Secondly, the development life cycle of a general Information System is a long term cycle, while a short term life-cycle of web-based development is quite common for many web-based projects. Thirdly, the web is content intensive, and composed of unstructured information use; while structured information and its flow are the major focus of traditional Information Systems. Finally, web-based development is a rich graphical approach, although it may be optional to most Information Systems development projects. Consequently, the SDM Group Assignment 14

15. [15.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 methodology to development needs to be discussed separately from the traditional Information System development. Justification for using WISDM It is best methodology for web based project management system as the resource required to implement this model is minimal. It follows the WISDM technique. User can find the site easy to learn to operate and understandable Provides accurate, timely, relevant information Provides information at the right level of detail Creates a sense of personalization Makes it easy to communicate with the users SDM Group Assignment 15
16. [16.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Organizational analysis Organizational analysis represents value creation. It stresses strategy as relationship building and maintaining with broad range of stakeholders that includes customers, employees, government, and suppliers and so on. There are four types of stakeholders that are listed below: Primary stakeholder Primary stakeholders are those who are directly interacted with the system. According to our system the primary stakeholders are administrator, job seeker, and employer. Secondary stakeholder Secondary stakeholders are those who are not directly interacted with the system but receive output. According to our system the secondary stakeholders are Management who are not directly interacted with the system. Tertiary Stakeholders These are those stakeholders that are not involved in the system. These are not primary as well as secondary but they are the ones who are affected by the success and failure of the system. These are the investors and competitors, developer whose profit depends on the success and failure of the system. Facilitating Stakeholders This is the main stakeholder as this is responsible for the developing, designing and maintaining the system. The developing team is the facilitator for this system. SDM Group Assignment 16
17. [17.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Information analysis Information analysis deals with requirement gathering techniques Traditionally addressed as requirements specification Formalized specification of the information and process requirements of the organization To document use graphical notation (use UML) or software prototype Use to create structural behavioral model of the problem situation o Use case o Class model o Activity diagram SDM Group Assignment 17
18. [18.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Human computer interaction Human-computer interaction (HCI) is the study of interaction between people (users) and computers. Interaction between users and computers occurs at the user interface, which includes both software and hardware; for example, characters or objects displayed by software on a computer's monitor, input received from users via hardware peripherals such as keyboards and mice, and other user interactions with large-scale computerized systems such as aircraft and power plants. It is defined as the discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. There are six design principles as follows: - Visibility – Visibility means by looking to an icon or some interactive buttons the user can come to know the use of it. It is achieved by putting control in a visible place. Feedback – It is a response to a user's input. Whenever a user gives any input proper feedback must be given that is under process. Constraints – These are the properties of an object that limits the ways it can be used. These are used to reduce the possibility of user making errors. Constraints are generally used while filling up the information while creating or editing their profile such that no wrong information is entered by the user. There are basically three types of constraints – Physical, Logical and cultural. Mapping – Mapping is the relationship between controls and their action or effect in the world. Consistency – Consistency means design icons should do similar tasks every time. It is easier to use and learn. Consistency is of two types – Internal and External Affordances – It is the properties of an object that indicates how it can be used. The scroll down toolbar itself indicates that it is used to scroll down or up SDM Group Assignment 18
19. [19.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 WORK DESIGN Work design emphasizes on the user satisfaction. Knowing who your users are and what they want is the first, vital step in meeting their needs. It's very important for a system to match the user's task with the requirements. Web Qual

survey is used to assess the quality of the system. Web Qual uses following parameters to ensure quality of web systems: Usability - Usability is the study of the ease with which people can employ a particular tool or other human-made object in order to achieve a particular goal. It should be usable for all users and stakeholders (Administrator, Job Seeker, Employer). Information – The information that the system is providing should be relevant. Users must get all the information in proper manner for which they have come to use the system. Interaction - Interaction plays a vital role. Users will use the system only if it is interactive enough to engage the users. In the system is not interactive users will easily get frustrated and will stop using the system. Convergence - The web site should be easily converging.SDM Group Assignment 19

20. [20.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Current System The present system requires applicants to search through print and visual media for job opportunities. Applicants need to apply for jobs using conventional methods and appear for interview on a specified date at a specified location. In the current manual system jobseekers had to send resumes and cover letters by mail, deliver them in person or fax them, and then wait for an interview request. Employers need to advertise the vacancies and sort all applicant details, conduct selection procedures and complete the formalities. The job application process took quite some time. This approach is tedious and requires much effort and resources. This process was equally frustrating for recruiters, as it often took some time to fill positions with qualified candidates. Online recruitment speeds up and makes the process much more efficient. Non availability of data when required. Resume sent manually, it is a waste of papers and consumes a lot of time. No database/system to keep track of resume of candidate. Difficulty to search for required job vacancy. It takes a long time for job seeker. Inviting applications through post takes a lot of time. Proposed System The proposed system is a web based application which allows applicants and employers to register their details. Applicants can browse through the vacancy details that are posted and can apply for the jobs online. Employers can browse through the posted resumes and select suitable candidates. Filter, Search facility for job seekers according to their required vacancy. Daily updates via notifications and other communication media. Sending resume saves effort, time and cost of job seeker. All vacancies are available on a single interface. Job seeker can set privacy level for different companies. Job seeker can save jobs according to their needs. Most recent jobs are displayed on the home page. Counting the number of times the resume of a job seeker is accessed by the company.SDM Group Assignment 20
21. [21.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Ease of posting job vacancy by employer Ease of filtering applications that fit into eligibility criteria by scanning the resumes Ease of communication between job seeker and employer by internal messaging Easy generated reports Constraints The Interface is provided only in English. So, the user should know English.. Login and password is used for identification of user and there is no facility for guest user. Registered users only have the rights to access the facilities provided by the system. The user can access Online Job Portal Management System from any computer that has internet connection and internet browsing capabilities. Assumptions The application is developed by the developers by assuming the: The user have intermittent knowledge of computers and its interface. The computer has internet connection and internet browsing capabilities. The user knows English as GUI has been provided in English. Jobseeker should be from any fields. (We are using incremental model, So first we are making it only for jobseekers from IT fields.)SDM Group Assignment 21
22. [22.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Requirements Functional Requirements Job SeekerS. No Requirement Description 1. Registration Jobseeker if wants to register to the site, a click on Register Now button will provide him with a registration form. After filling all the details in the registration form i.e. the mandatory ones which are marked by \* has to be filled necessarily and the remaining may be left, user has to submit it by clicking on submit button. Notification via message will be displayed. 2. Login It allows only authorised people to access the application. When the user logs in to the system, the user has to enter login details in the specific username and password fields. The user clicks on login button and if id and password are validated, then the user is given access to the application and user profile is displayed. 3. Forgot Password If the user forgets the password, it can be retrieved by Option Forgot Password? Button. A click on this button will lead to a security question and if the answer is verified. The message with correct password will be provided to the user. 4. Search Jobs The jobseeker can search for the required job by entering keywords, category, work status, location, qualification,

categories, company, location, experience in the provided fields. A click on search button willSDM Group Assignment 22

23. [23.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 display the result of all the jobs matching the job seeker's specification. 5. Add CV Jobseeker has the option to either create his CV or post his own made CV. So, user is asked already Having CV or wants to create with? If a click on Upload CV button is made, it will enable the user to post his created CV on the site. 6. Create CV, Edit, Hide As stated above, jobseeker has the option to create his and Delete CV. CV or Upload own created CV. If the user clicks on create CV Option, a template is provided to the user in which user has to fill all his details. After filling all the details and clicking on submit button, the resume is posted to the site. Edit, Hide and Delete Resume options provided with Create CV lets jobseeker with some additional facilities for the resume which has been posted to the site. A click on Edit CV button helps the job seeker to do some amendments in the already created CV and then again submit it. A click on Hide CV option will let the jobseeker hide his CV from a particular company. The user has to enter in the particular field the name of the companies and then click on hide button. Delete CV option will let the jobseeker his added or created CV from the site itself. 7. Create Job Agents and A trigger option is provided to the jobseeker i.e. Receive Daily jobseeker can create job agents by a click on Add Notifications Trigger option. Job agents notify the registered Job seekers via message with various job details and alsoSDM Group Assignment 23
24. [24.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 specified requirements of the job they opted for. 8. Edit, Activate or Edit, Activate or Delete Trigger options provided with Delete Job Search Create Trigger lets jobseeker with some additional Agent. facilities for the already created job search agents. The jobseeker can edit job search agents by opting for Edit Trigger option. This will let jobseeker to modify the requirements of the job or make some changes in receiving notifications.  
Activate/Deactivate Trigger allows the jobseeker whether or not to receive notifications via message. Delete Trigger allows the jobseeker to delete the created job search agent and not to receive any messages for the job. 9. Save Jobs As jobseeker receives daily notifications of jobs that match their keywords via job agent. The user can save jobs that interest them but do not want to apply at that particular point of time. A Click on Save Job button will put all the details of that job in the queue and the candidate can apply for it later on from the list. 10. Arrange Job Search As the jobseeker searches for a particular job and Saves Results it. He has the ability to arrange job search results When all the search results are with the user a click on date or location button allows the user to collect results by date or location. 11. Apply for a Job Jobseeker applies the job to particular company after submitting the resume and the required details. A notification to apply for a particular job according to his requirements is sent to the jobseeker. Job Seeker can apply for the job in the same company by clickingSDM Group Assignment 24
25. [25.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 on the apply button with the notification. 12. Set Privacy Level Job seeker has the option to set privacy level to control how much information is visible to employers through resume searches. The user has to set on Privacy Level while posting or creating CV and then check from a list of Private/Public/Confidential Resumes option. 13. Resume View Reports Job Seeker also has the option of Report Generation. As the user opts for Report generation a list of how often interested employers viewed the particular jobseeker's resume is provided to the jobseeker. EmployerS.No Requirement Description 1. Registration For Employer registration to the site, a click on Register Now button will provide him with a registration form. After filling all the details in the registration form i.e. the mandatory ones which are marked by \* has to be filled necessarily and the remaining may be left, user has to submit it by clicking on submit button. Notification via message will be displayed. 2. Login It allows only authorised people to access the application. When the user logs in to the system, the user has to enter login details in the specific username and password fields. The user clicks on login button and if id and password are validated, then the user is given access to the application and user profile is displayed. 3. Forgot Password If the user forgets the password, it can be retrieved by Option Forgot Password? Button. A click on this button will letSDM Group Assignment 25
26. [26.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 to a security question and if the answer is verified. The message with correct password will be provided to the user. 4. Search Resume The Employer can search for the required job by entering keywords, category, job category, days since posted in the provided fields. A click on search button will display the result of all the resumes matching the employer's specification. 5. Add a New Job Employer collects the vacancy details and has the authority to Post jobs. A particular is posted by filling detailed job description such as job title, company name, location, salary,

job type, work type, description, required skills, etc in the required fields. If a click on Add Job button is made, advertisement for the new job will be posted on the website. 6. Create Resume Agents Employers and Recruiters have the ability to create multiple Resume Agents. When the Employer searches for the resumes by a keyword, the segregation of resumes that match their keywords is performed by these agents. For Example, Employer searches for resumes relates to Java with an experience of more than 2 years, first Resume Agent will collect resumes of Java and second of Java but with experience of more than 2 years. 7. Generates Information As soon as the job is posted to the website, employer on Time Left knows the time limit for which job is posted to the site. He thus posts the information on how much time left on each job posting. The System thus displays time left with each job posted. 8. Information on The Employer when sees different applications, anSDM Group Assignment 26

27. [27. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 number of vacancy options is to view number of vacancies viewed is viewings available with the employer. As employer clicks on it he is authorised to see the number of vacancy viewings and applications by him. 9. Search, View or Employers can Search Resumes for a particular job by Download Resume filtering criteria and filling all the required fields. As the employer clicks on Search Button, all the Resumes within the criteria are displayed. After Searching, Employer now has the option to View or Download Resume. A click on any option will let him to view and check the resume. AdministratorSr. no Requirement Description1 Manage jobseeker and Admin has the responsibility to manage the employer module jobseeker as well as the employer modules. This includes managing their account, usernames and passwords etc.2 Send Notification messages to Whenever any user subscribes to the site as an employer and jobseeker employer or jobseeker, the admin will have to send them notification messages confirming their subscription.3 Provide roles and The administrator provides usernames and authentication to users passwords to the users and also the admin has the duty to make user of the website as an employer or jobseeker depending on the type of registration made by the user.4 Ability to change website's The option to make modifications in the look and interface look appearance of the website's interface relies in the hands of the administrator. This includes changing of menu items in the menu bar, display of contents and also the color if the interface. SDM Group Assignment 27
28. [28. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 5 Send notifications to The administrator can send notifications to the candidates, members, or subscribers regarding account details consisting employers of their subscriptions, creation dates, events, etc. 6 Automated message indicating The user's account will expire if it is not used for that accounts have expired a specific time period. So the admin can send notifications to those users whose accounts have been expired and requires renewal or creation of new account. 7 Display recent jobs on The job offers on the website keeps changing. So, homepage the admin has the duty to remove the old posts or dead posts and display new and recent job offerings on the homepage of the website. 8 Extensive usage report/stats The admin also generates notification if the number of posts of resumes or number of sign ups to the website crosses a particular limit. This notification is referred as extensive usage report/stats. 9 Categorization of JOB The website offers jobs of different categories. postings So, the admin will have to display the job offering posts in their specific categories so that user doesn't get confused regarding the scope and context of the job post. 10 Customization of search The search for job posts can be done using criteria keyword search system and the matching job vacancy will be displayed to the user. The admin decides what jobs will be displayed on search using a particular keyword(s). 11 Apply Restrictions on Job The administrator can apply restrictions on the Posting, Resume Search, number of job postings to be displayed on the Contact Info, Applicant website's homepage at a time. The admin also Screening, Company Profile decides what postings are to be removed and why. Also, the admin has the duty to display the SDM Group Assignment 28
29. [29. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013 details restricting display of contact details of the company or even the applicant and the company profile can be limited. 12 Control over what is displayed The admin can change the content of the in nearly all dropdown lists dropdown lists and list boxes anywhere in the and list boxes throughout the website. This can be done either to apply site restrictions on few contents or to make the website free from unwanted and less important contents. 13 Generate reports If any If any report is to be generated, for example, reports of the number of applicants or the number of resumes posted for a particular job post, it can be generated be the admin. Non-Functional Requirements: Secure access of confidential data by user name and password. This application is secure for every kind of its users, because if any user logout from any session then nobody will be able to access

his profile without knowing his confidential password. 24 X 7 availability Better component design to get better performance at peak time. The database used here is robust, reliable & fast. So users will have to wait for the output very short time. This application can be accessed from any type of platform. There is no case of redundancy in the database so it will not take extra memory space. Username & password are sent to the users via mobile sms and email after registration. Password recovery system is also provided in case of forgetting the password.SDM Group Assignment 29

30. [30.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Hardware Requirements: Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional: Processor: 2.6 GHz Intel Pentium IV or equivalent Memory: 2 GB Disk space: 1 GB of free disk space Software Requirements: Software plays an important role in any project development. One should understand which software to use to develop the project. Windows 7 is used as an operating system. The application is developed using: Technology : ASP .NET Database : SQL SERVER IDE : VISUAL STUDIO 2010 SDM Group Assignment 30
31. [31.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 PROCESS MODEL Introduction to Process Modelling: Process modelling aims to graphically represent the processes which capture, manipulate, store and distribute data. • Data flow diagrams • Structured English • Decision tables and decision trees Data Flow Diagrams: Data flow diagrams model the flow of data into, through, and out of an information system: • show the processes that change or transform data • show the movement of data between processes • represent a system as a network of processes which transform data flowing between them Context Diagram: The highest level data flow diagram is the context diagram. • The context diagram shows the interaction of the system with its environment in terms of data flows • The context diagram defines the boundary of the system (the scope of the system) • Only the data flows which leave the system and the data flows which come from outside the system are shown. SDM Group Assignment 31
32. [32.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 LOGICAL PROCESS MODEL CONTEXT DIAGRAM Admin Manage User Profile Send User Notification Categorizes Job Postings Provide User Authentication Alters Site Design Customizes Search Criteria Generate Reports Registration Displays Recent Jobs Login Update Profile Search Job 0 Post Resume Registration Create Job Agents Login JOB PORTAL SYSTEM Apply For Job Post Jobs Search Resume View Resume Download Resume Create Resume Agents Job Notifications Job Seeker Generate Reports Employee Registration Confirmation SDM Group Assignment 32
33. [33.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 LEVEL 0 DFD The level zero data flow diagram is the diagram at the level immediately below the context diagram. It "expands" the single process on the context diagram to show the major, high-level processes (or functions) within the system Employer Insert Details 1.0 Employee Registration Registration Confirmation Apply for Registration 3.0 Search Login Request Search/ Resume Download/ Resume Search Resume View Resume View/ Resume Download Login EMPLOYER Request 2.0 Add 4.0 Login Job Request for Add Job Post Job\_Vacancy Jobs Job Vacancy Posted Click on Report Button Request for Agent 6.0 Request for Report Generate Reports Report on Time Left for each Posting 5.0 Request for Agent Create Resume\_Agents Resume Segregated Resumes Agents SDM Group Assignment 33
34. [34.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Job Seeker Registration Details 1.0 New account notification Registration Uploaded resume register jobseeker Job Seeker Verify username and password Username and password 2.0 Success/failure message Login Confirm verification Personal details register jobseeker 3.0 New detail Update check detail View profile Profile Update detail 4.0 J\_JobAgent Create Search Agent Create job Search agent information Keywords Agent Location, Status, Category, Refined job list Tbl\_jobposts Company, Uploading, Deleting, 5.0 Editing, Creating New application Search Jobs Check detail resume Tbl\_Resume 6.0 Created resume Manage Uploading, deleting, editing resume Resume 7.0 tbl\_applications Job Store application Application Save application interested jobs Resumetable SDM Group Assignment 34
35. [35.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Administrator register Jobseeker Employer's register Employee Details Job-Seeker's Job Details Agent J\_jobagents Details Resume Notification 5.0 Resume Details Generate Resume Reports agent details r\_jresumeagents acknowledgement Manage Message/notification and recipient id Job details Message/notification Tbl\_jobposts 6.0 and recipient id Send Message/ Notification Job details acknowledgement Admin\_login Login Details Admin Categorization Criteria Login verification Jos Categorized 4.0 Username Categorize password Login acknowledgement 1.0 Jobs Login Background Color change Request for View/Delete

Background Show Profile Information Color Input Profile Details Profile Deleted Notification  
 registerjobseeker Delete Notification Profile details View Profile Request 3.0 Profile Successful Request  
 Manage Login 2.0 Profiles registeremployer Profile Customize Details Site Delete Notification  
 Background Color Name Successful Color Change Color Login Successful LoginSDM Group Assignment  
 35

36. [36. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013PROCESS SPECIFICATIONDECISION TABLECONDITIONS 1 2 3 4 5 6 7 8Registration done N Y Y Y Y Y Y Admin Login - Y -----Job Seeker Login - Y Y Y - Employee Login ----- Y Y Y Post Jobs ----- N Y Y Search Jobs - N Y Y ----- Upload Resume -- N Y -- Search Resume ----- N Y ACTIONSSubmit Registration Details XUser Validated X X X X X X X Customise Site XSend Notifications XReceive Notifications X X X X X X Job Search Results X XArrange Job Search Results X XApply for Job XSet Privacy Level on XResumeView Resume Viewed X XDownload/View Resume XProvide User Roles XProvide Info on Time Left X Xfor Job PostingSDM Group Assignment 36
37. [37. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013DATA MODELIntroduction to Data Modelling:Data modelling is the formalization and documentation of existing processes and events that occur during application software design and development. Data modelling techniques and tools capture and translate complex system designs into easily understood representations of the data flows and processes, creating a blueprint for construction and/or re-engineering.A data model can be thought of as a diagram or flowchart that illustrates the relationships between data. Although capturing all the possible relationships in a data model can be very time-intensive, it's an important step and shouldn't be rushed. Well-documented models allow stakeholders to identify errors and make changes before any programming code has been written.Entity-relationship diagram:An entity-relationship diagram is a data modelling technique that creates a graphical representation of the entities, and the relationships between entities, within an information system.The three main components of an ERD are: The entity is a person, object, place or event for which data is collected. The entity is represented by a rectangle and labelled with a singular noun. The relationship is the interaction between the entities.. A relationship may be represented by a diamond shape, or more simply, by the line connecting the entities. The cardinality defines the relationship between the entities in terms of numbers. The three main cardinal relationships are: one-to-one, expressed as 1:1; one-to-many, expressed as 1: M; and many-to-many, expressed as M: N.SDM Group Assignment 37
38. [38. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013ERD SavedJob has Has Submits Application Resume Uploads Job seeker has Creates Agent Message Has Job has Posts manages receives Creates Employer manages Has sends Administrator AccountSDM Group Assignment 38
39. [39. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013EVENT MODELENTITY LIFE HISTORYAn entity life history is the behaviour of an object, or a class of objects that share the same behaviour. The stream of events affecting a persistent object is describable as an entity life history.Entity life histories (ELHs) describe: Events that bring instances of an entity type into being; an instance of Member is created. Events that cause instances of an entity type to be modified; an instance of Member is modified. Events that cause instances to be deleted; an instance of Member is deleted.SDM Group Assignment 39
40. [40. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013Employer:SDM Group Assignment 40
41. [41. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013Job Seeker:SDM Group Assignment 41
42. [42. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013Administrator:SDM Group Assignment 42
43. [43. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013DATABASE DESIGNSADMINISTRATOR DATABASESDM Group Assignment 43
44. [44. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013EMPLOYER DATABASESDM Group Assignment 44
45. [45. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013JOBSEEKER DATABASESDM Group Assignment 45
46. [46. \[JOB PORTAL MANAGEMENT SYSTEM\]](#) April 12, 2013DESIGN PRINCIPLESINTERACTIVE SCREEN DESIGN WITH QUERYCREATE JOB AGENT After filling all the details, on click of this button, a new Job agent gets created.INPUT: Job seeker provides details for job agent like job agent name, keywords, job location, job category, experience required, salary, industry.OUTPUT: Job agent is created and a confirmation window pops out with this message.QUERY:string status = "ACTIVATED";

```
SqlCommand cmd = new SqlCommand("insert into J_JobAgent values(" + Label2.Text + "," + txt_agent.Text + "," + txt_kw1.Text + "," + txt_kw2.Text + "," + txt_kw3.Text + "," + txt_kw4.Text + "," + ddl_location.SelectedItem + "," + ddl_category.SelectedItem + "," + ddl_minexp.SelectedItem + "," + ddl_minsal.SelectedItem + "," + ddl_industry.SelectedItem + "," + status + ")", conn);
cmd.ExecuteNonQuery(); conn.Close(); Response.Write(@"<script language=javascript>alert(JOB AGENT CREATEDSUCCESSFULLY.)</script>");SDM Group Assignment 46
```

47. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013APPLY FOR JOBINPUT: The list shows the job details according to the job agent created by entering the keywords.OUTPUT: The job seeker can apply from the list of the job vacancies provided to him by clicking on apply button. This is done by entering the name in the textbox and selecting the title of the job to be applied for. Job seeker can also save a particular job in the interested jobs list by making a click on add to interested jobs

```
list.QUERY:SqlCommand cmd1 = new SqlCommand("insert into tbl_applications values(" + ddl_title1.SelectedItem + "," + TextBox11.Text + "," + txt_name1.Text + "," + Label2.Text + ")", conn);
cmd1.ExecuteNonQuery(); conn.Close(); Response.Write(@"<script language=javascript>alert(THANK YOU FOR APPLYING FOR THIS JOB. WE WILL SOON GET BACK TO YOU.)</script>");SDM Group Assignment 47
```

48. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013ADMIN MANAGE PROFILEINPUT: This page helps admin to manage profiles of different users. Admin can also manage job posted by employers. Admin selects from the three different options available.OUTPUT: As the admin selects from different options, and clicks on show data button and enters the email id , the data of the selected appears in the grid view with select and delete option. these are thus the two options available with the admin to manage profilesQUERY:// To display full registered jobseekers listSELECT Email, FullName, City, Mobile, Basic\_education, Security\_question FROM registerjobseeker;//Details of a particular jobseeker whose Email ID is known to the adminSELECT Email, FullName, City, Mobile, Basic\_education, Security\_question FROM registerjobseekerWHERE Email="txt\_email.Text";SDM Group Assignment 48

49. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013BACKGROUND COLOR CHANGEINPUT: this screen helps the admin to customize site as admin has the authority to change the look of the site. Admin sets the color by set color button.OUTPUT: Selecting the color from the drop down list and clicking on set color button will let the admin change the background color of whole of the site.QUERY:// TO GET COLOR NAMES IN DROPODOWNLIST:Select BgColor FROM customizetable;// QUERY ON "Set Color" BUTTONprotected void Button1\_Click(object sender, EventArgs e) { SqlCommand cmd = new SqlCommand("update color set Colour=" + ddl\_color.SelectedValue + " wherenumber=1", conn); cmd.ExecuteNonQuery(); conn.Close(); }SDM Group Assignment 49

50. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013POST JOBS If the fields left are blank, validation is providing to fill all the fields.INPUT: This screen is for employer to post the jobs; employer has to specify all the details in the required fields or select from the drop down list.OUTPUT: As the employer clicks on "Post Job" button, the filled data is sent to tbl\_jobposts. The job details are then available when the job seeker searches and the requirements are matched with the posted job requirements.QUERY:String dt = System.DateTime.Now.ToString(); SqlCommand cmd = new SqlCommand("insert into tbl\_jobposts values(" + txt\_title.Text + "," + txt\_desc.Text + "," + txt\_keyword1.Text + "," + txt\_keyword2.Text + "," + txt\_keyword3.Text + "," + txt\_keyword4.Text + "," + ddl\_minexp.SelectedItem + "," + ddl\_maxexp.SelectedItem + "," + ddl\_minsalary.SelectedItem + "," + ddl\_maxsalary.SelectedItem + "," + txt\_vacancy.Text + "," + ddl\_joblocation.SelectedItem + "," + ddl\_industry.SelectedItem + "," + ddl\_ug.SelectedItem + "," + ddl\_pg.SelectedItem + "," + txt\_companyname.Text + "," + txt\_person.Text + "," + txt\_contact.Text + "," + dt + "," + txt\_expiredate.Text + ")", conn); cmd.ExecuteNonQuery(); conn.Close();SDM Group Assignment 50

51. [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013CREATE RESUME AGENTINPUT: this screen helps the employer to create resume agents. The resume agents will help to filter details of Jobseekers as the employer provides the details in the required fields. There are two options provided, first is to click on already created resume agent and another to create a new agent.OUTPUT: As the user clicks on already created agent, he can update the details or add details for a new agent. Different resumes information matching the search criteria appears in a grid view. Employer can then download a particular

resume from the provided list.QUERY: SqlCommand cmd = new SqlCommand("insert into E\_ResumeAgent values(" + Label2.Text + "," + txt\_agent.Text + "," + ddl\_ug.SelectedItem + "," + ddl\_pg.SelectedItem + "," + ddl\_maxexp.SelectedItem + "," + ddl\_industry.SelectedItem + "," + txt\_kw1.Text + "," + txt\_kw2.Text + "," + txt\_kw3.Text + "," + txt\_kw4.Text + ")", conn); cmd.ExecuteNonQuery(); conn.Close(); Response.Write(@"<script language=javascript>alert(RESUME AGENT CREATEDSUCCESSFULLY.)</script>"); Panel2.Visible = true;SDM Group Assignment 51

52. [52.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 VALIDATIONS INPUT: This is the employee registration page. Employer has to fill all the details for creating a new account. Email id of the employer acts as the user name while login into the system. OUTPUT: After entering all the fields user will show up with a message with the user name and password, else if any field is left blank, message appears to the user. QUERY: Required Field Validations has been used to implement this functionality. If any text box is left unfilled prior to the registration, a validation error is displayed with message “\* Fill Detail” and a pop up window is displayed along with the error summary. If (textbox.text == "") {Label1.text = "\* Fill Detail"; } Else { // Registration complete} SDM Group Assignment 52
53. [53.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 NOTIFICATIONS INPUT: The admin of the site can send notification to the employers as well as to the jobseekers. The admin will need to provide the email id of the user he/she wants to send the notification to. OUTPUT: the message is sent to the notifications table along with the details of the sender and the message subject. QUERY: SqlCommand cmd = new SqlCommand("insert into notifications values(" + TextBox1.Text + "," + TextBox5.Text + "," + TextBox2.Text + "," + Label1.Text + "," + System.DateTime.Now.Date + ")", conn); cmd.ExecuteNonQuery(); conn.Close(); SDM Group Assignment 53
54. [54.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 EDIT PROFILE INPUT: when the employer selects this option to edit the profile details, the details automatically gets filled in the gridview texboxes after being retrieved from the table registeremployer. OUTPUT: There is an update and cancel button. if the user selects the update button and enters values in the text boxes, the table registeremployer gets updated with the provided data. QUERY: SqlCommand cmd2 = new SqlCommand("update registeremployer set Email=" + TextBox1.Text + ", Password=" + TextBox2.Text + ", Company=" + TextBox3.Text + ", Address1=" + TextBox4.Text + ", Address2=" + TextBox5.Text + ", Address3=" + TextBox6.Text + ", Country=" + TextBox7.Text + ", City=" + TextBox8.Text + ", Pincode=" + TextBox9.Text + ", State=" + TextBox10.Text + ", Mobile=" + TextBox11.Text + " where Agent\_name=" + agentname.Text + "", con1); cmd2.ExecuteNonQuery(); SDM Group Assignment 54
55. [55.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 PASSWORD RECOVERY INPUT: the employer as well as the jobseeker can recover their passwords if they forgot it. by providing answer to the security question password can be retrieved. OUTPUT: on click of the “Get password” button, the query fired in backend checks for the authentication of the correct data. if answer is correct, the password is displayed on the screen in a message box and label too. QUERY: protected void Button2\_Click(object sender, EventArgs e) { s = WebConfigurationManager.ConnectionStrings["ConnectionString-JobPortal"].ConnectionString; con1 = new SqlConnection(s); con1.Open(); SqlCommand cmd = new SqlCommand("Select \* from registerjobseeker where Email=" + TextBox2.Text + "", con1); SqlDataReader dr = cmd.ExecuteReader(); while (dr.Read()) { Label1.Text = dr["Security\_question"].ToString(); } dr.Close(); con1.Close(); } protected void Button1\_Click(object sender, EventArgs e) { SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString-SDM Group Assignment 55"].ConnectionString); con.Open(); SqlCommand cmd = new SqlCommand("select \* from registerjobseeker where Email=@username and Security\_answer=@answer", con); cmd.Parameters.AddWithValue("@username", TextBox2.Text); cmd.Parameters.AddWithValue("@answer", TextBox1.Text); SqlDataAdapter da = new SqlDataAdapter(cmd); DataTable dt = new DataTable(); da.Fill(dt); if (dt.Rows.Count > 0) { s = WebConfigurationManager.ConnectionStrings["ConnectionString-JobPortal"].ConnectionString; con1 = new SqlConnection(s); con1.Open(); SqlCommand cmd2 = new SqlCommand("Select \* from registerjobseeker where Email=" + TextBox2.Text + "", con1); SqlDataReader dr = cmd2.ExecuteReader(); while (dr.Read()) { Label2.Text = dr["Password"].ToString(); Response.Write(@"<script language=javascript>alert(Your Password is:" + Label2.Text + ")</script>"); } dr.Close(); con1.Close(); } SDM Group Assignment 55
56. [56.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 JobPortal"].ConnectionString); con.Open(); SqlCommand cmd = new SqlCommand("select \* from registerjobseeker where Email=@username and Security\_answer=@answer", con); cmd.Parameters.AddWithValue("@username", TextBox2.Text); cmd.Parameters.AddWithValue("@answer", TextBox1.Text); SqlDataAdapter da = new SqlDataAdapter(cmd); DataTable dt = new DataTable(); da.Fill(dt); if (dt.Rows.Count > 0) { s = WebConfigurationManager.ConnectionStrings["ConnectionString-JobPortal"].ConnectionString; con1 = new SqlConnection(s); con1.Open(); SqlCommand cmd2 = new SqlCommand("Select \* from registerjobseeker where Email=" + TextBox2.Text + "", con1); SqlDataReader dr = cmd2.ExecuteReader(); while (dr.Read()) { Label2.Text = dr["Password"].ToString(); Response.Write(@"<script language=javascript>alert(Your Password is:" + Label2.Text + ")</script>"); } dr.Close(); con1.Close(); } SDM Group Assignment 56

57. [57.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 Search job by qualification requirements  
**INPUT:** This is the page for job seeker where he has the option to search for job using different criterion, the job seeker has to select from the drop down list and then click on the button.  
**OUTPUT:** A click on button will retrieve the data from table job posts and appear in a grid view with all the details of the posted jobs that matches the search criterion.  
**QUERY:** SELECT [Job\_Title], [Job\_Description], [Min\_experience], [Max\_salary], [Vacancy], [Job\_Location], [Industry], [Company\_name], [Contact\_person] FROM [tbl\_jobposts] WHERE (([UG\_Qualification] = @UG\_Qualification) OR ([PG\_Qualification] = @PG\_Qualification))  
SDM Group Assignment 57
58. [58.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 PROGRAMMING  
**ENVIRONMENT:** FRONT-END ASP.NET Development Tool Microsoft Visual Studio 2010  
**Reason for selecting ASP.NET as Front End:** It provides better performance by taking advantage of early binding, just-in-time compilation, native optimization, and caching services right out of the box. The ASP.NET framework is complemented by a rich toolbox and designer in the Visual Studio integrated development environment. WYSIWYG editing, drag-and-drop server controls, and automatic deployment are just a few of the features this powerful tool provides. It is purely server-side technology so, ASP.NET code executes on the server before it is sent to the browser.  
SDM Group Assignment 58
59. [59.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 BACK-END SQL SERVER Development Tool Microsoft SQL Server 2008  
**Reason for selecting Microsoft SQL Server 2008 as Back End:** It does support Multiple Active Result Sets (MARS). It has been enhanced in such a way that developers program more powerful and error resistant SQL code with structured exception handling. Performance of query execution is much faster as compared to SQL Server 2000. It supports Integration of the .NET common language runtime (CLR). By default it is off, we explicitly need to start from configuration setting. It has a new XML data type as well as new varbinary (max) data type.  
SDM Group Assignment 59
60. [60.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 CONCLUSION  
At last it can be concluded that the Job Portal System was a real learning experience. The principles of software production were well implemented throughout the system. The whole project undergoes with full of enthusiasm and with full of joyous moments. The project has been made as per as the given specification. The system has been made as user friendly as possible by the use of HCI principles. That is why Management holds an important place in the software production. Working on the Project was really a learning experience and we have come a long way in building our concepts of Software engineering. The "Job Portal System" developed by us is purely based on ASP.net platform. The overall purpose of this system is to computerize the whole process and thus prevent the intervening errors. We also tried to follow the holistic design principle so that the interface of the system is simple. During the course of this assignment we have gone through many obstacles which made us to research and though increased our knowledge. After applying all the data modelling, object modelling and process modelling techniques now we are very well clear with all these concepts and fundamentals which will be going to help us in the future.  
SDM Group Assignment 60
61. [61.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 BIBLIOGRAPHY  
BOOK REFERENCING Stephen Walther (2008). ASP.NET 3.5 Unleashed. India: Dorling Kindersley. 1797 Chris Payne (2002). ASP.NET in 21 days: G.C. Jain for Techmedia. 939 Ian Sommerville (2008). Software Engineering. 7th ed. Delhi: Pearson Education Ltd. S. Valacich, Joseph, F. George, Joey, and A. Offer, Jeffery, 2005. Essentials of System Analysis And Design. 2nd ed. New Delhi: Prentice-Hall of India Private Limited. WEB SITE REFERENCING (1995). Asp tutorials. Available:  
<http://w3schools.com/asp/default.asp>. (2004). ASP.net and sql.  
Available:  
<http://www.tutorialized.com/tutorial/Connecting-to-a-SQL-database-from-ASP-.NET-II/5745>. De Montfort University. 2010. Purpose of WISDM. [ONLINE] Available at:  
[http://www.ccsr.cse.dmu.ac.uk/conferences/ethicomp/ethicomp2010/abstracts/ethicomp2010\\_ramrattan\\_ramrattan\\_patel\\_hussain.php](http://www.ccsr.cse.dmu.ac.uk/conferences/ethicomp/ethicomp2010/abstracts/ethicomp2010_ramrattan_ramrattan_patel_hussain.php). [Accessed 13 March 13]. SDM Group Assignment 61
62. [62.](#) [JOB PORTAL MANAGEMENT SYSTEM] April 12, 2013 APPENDIX  
SDM Group Assignment 62



## Recommended



[Explore professional development books with Scribd](#)  
[Scribd - Free 30 day trial](#)



[Online job portal](#)  
[Aj Maurya](#)



[Online Job Portal \(UML Diagrams\)](#)  
[Syed Muhammad Zeejah H...](#)



[Online Job Portal ppt presentation](#)  
[Prateek Kulshrestha](#)



online job portal system  
Krishna Ranjan



Job portal system doc  
masterpiyush

E-RECRUITMENT	
Job Type:	Job Type
Location:	Location
Experience:	Experience
Skills:	Skills
Education:	Education
Industry:	Industry
Category:	Category
Job Status:	Job Status
Sort By:	Sort By
Search:	Search

E-FREELANCING - MAJOR/FINAL YEAR PR...  
masterpiyush

E-FREELANCING	
Job Type:	Job Type
Location:	Location
Experience:	Experience
Skills:	Skills
Education:	Education
Industry:	Industry
Category:	Category
Job Status:	Job Status
Sort By:	Sort By
Search:	Search

Algorithms explained  
masterpiyush

Algorithms explained	
Job Type:	Job Type
Location:	Location
Experience:	Experience
Skills:	Skills
Education:	Education
Industry:	Industry
Category:	Category
Job Status:	Job Status
Sort By:	Sort By
Search:	Search

Online railway reservation system  
masterpiyush



What to Upload to SlideShare  
SlideShare



## [Customer Code: Creating a Company C...](#)

### [HubSpot](#)

- [English](#)
- [Español](#)
- [Português](#)
- [Français](#)
- [Deutsch](#)
  
- [About](#)
- [Dev & API](#)
- [Blog](#)
- [Terms](#)
- [Privacy](#)
- [Copyright](#)
- [Support](#)

•

×

## Share Clipboard

---

×

- Facebook
- Twitter
- LinkedIn

Link

## Public clipboards featuring this slide

---

×

No public clipboards found for this slide

## Select another clipboard

---

X

Looks like you've clipped this slide to already.

## You just clipped your first slide!

Clipping is a handy way to collect important slides you want to go back to later. Now customize the name of a clipboard to store your clips.

---

Name\*

Description

Visibility

Others can see my Clipboard

Save this document