

# **Software Requirement Specifications Of NAUKRI.COM**

## **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING**



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# INTRODUCTION

The main objective of naukri.com is to provide users with excellent jobs experience by exploring the opportunities and resources to meet their potential job where the matching is done based on knowledge, qualification and age. The first activity is the master module where the administrator has the authority to add job name, salary, qualification status and status detail for users. He has the right to edit the details from the list too. Next is the login module. A username and password are provided to each user. The Admin only has the right to edit the details from the database. In the view module, user can view the info provided by them which is saved in the database. Next is the match assignment where user can enter the information and find the choices corresponding to the user. At the end of the day, a report is generated to calculate the payment of each customer in a day. The purpose of this document is to provide a complete description of the requirements and specifications of the job site, naukri.com. The document comprises of the information about the requirements-functional and non-functional, architecture and design and various constraints of the site. The Document for naukri.com is intended for all the stakeholders of this site which include the clients, the administrator and the programmer. The basic purpose of this SRS to emphasize on the complete behavior of the software proposed for the users.

# 1. Definition

## 1.1 Job

A job is a list that a person might use for general function or task, and responsibilities of a position. It may often include to whom the position reports, specifications such as the qualifications or skills needed by the person in the job, and a salary range. Job descriptions are usually narrative, but some may instead comprise a simple list of competencies; for instance, strategic human resource

planning methodologies may be used to develop a competency design for an organization, from which job descriptions are built as a shortlist of competencies.

## 1.2 Salary

A fixed regular payment, typically paid on a monthly basis but often expressed as an annual sum, made by an employer to an employee, especially a professional or white-collar worker: Compare with wage. Salary is typically determined by comparing market pay rates for people performing similar work in similar companies in the same region. Salary is also determined by leveling the pay rates and salary ranges established by an individual worker. Salary is also affected by the number of people available to perform the specific job in the employer's employment locale.

## 1.3 Eligibility

Eligibility is the criteria to perform the given job according to the knowledge in an institute or a company. This is also known as the verification or validation for any job profile.

## 1.4 Vacancy

A land owner can use vacancy rates as a metric for analysis. Changes in the percentage of vacant units versus occupied units, the length of time occupied units are remaining active, or other rent conditions can provide guidance regarding how competitive a property owner has set the property. If a property owner is charging significantly more or less than the rest of the rental market, this may be reflected in the overall vacancy rates. It can also provide information regarding the effects of price changes or advertising on unit occupancy. Vacancy rates are tabulated by the U.S. Bureau, along with information regarding the amount being charged for rent and details about the property. This information can be used, in addition with other information, to help determine the health of an economy by

examining changes in the number of units available and the average prices of available or occupied units.

## **1.5 User**

A user is a person who uses to use a computer or network service. Users generally use a system or a software product without the technical expertise required to fully understand it. Power users use advanced features of programs, though they are not capable of computer programming and system knowledge. A user often has a user account and is identified to the system by a username. Other terms for username include login name, screen name, nickname and handle, which is derived from the identical Citizen's Band radio term. Some software products provide services to other systems and have no direct end users.

## **1.6 User account**

A user's account allows a user to authenticate to a system and potentially to receive authorization to access resources provided by or connected to that system; however, authentication does not imply authorized. To log in to an account, a user is typically required to authenticate oneself with a password or other proofs for the purposes of accounting, security, logging, and resource management. Once the user has logged on, the operating system will often use a user such as an integer to refer to them, rather than their username, through a process known as identity correlation. In Unix systems, the username is correlated with a user identifier or user id.

## **1.7 Password**

A password is a word or string of characters used for user authentication to prove identity or access approval to gain access to a resource (example: an access code is a type of password), which is to be kept secret from those whom we don't want to access our info. The use of passwords is known to be ancient. Sentries would challenge those wishing to enter an area or approaching it to supply a password or watchword and would only allow a person or group to pass if they knew the password. In modern times, user names and passwords are commonly used by people during a log in process that controls access to protected computer operating systems, mobile phones, cable TV, automated teller machines (ATMs), net banking, etc. A typical computer user has passwords for many purposes: logging into accounts, retrieving e-mail, accessing applications, databases, networks, web sites, and even reading the morning newspaper online and many more.

## **1.8 Employee**

The holder of one or more vacancies in a company. An employee can consist of one or more persons or corporations, the correspondence is not relevant to this problem. The same person holding a job at a vacancy is considered a different employee.

## **2.Stack Holders**

As of Nov 2015 Naukri.com had a database of about 44 million registered job seekers and an average of about 11,000 resumes were added daily while about 130,000 resumes were modified daily during the Fiscal year 2013-14. During the Fiscal year 2013-14, 51,000 corporate customers (including hiring consultants/firms) paid Naukri.com for services like database access, advertising / listing on the site amongst others. Naukri.com is one of the core businesses of Info Edge India. Other online recruitment businesses are Quadngle, web portal Naukrigulf.com, entry-level hiring website First naukri.com. According to comScore, Naukri.com leads the online job market with 70% traffic share. The website has 40 million resumes registered.

Different stakeholders of naukri.com are:

### **2.1. The Administrator**

An administrator is the responsible of all the handling of the databases. He has the authority to add various job profiles and their vacancy status and status detail for user. He has the right to edit the details from the list too.

### **2.2. The Programmer**

It depends on the programming ability of a programmer whether the website will bring success or not. If the interface is not user-friendly, it won't be used apparently, thus, causing a failure to the project.

### **2.3. The Customer**

Here, the customers refer to the men and women for whom the project has been designed. The website is for all the perspective users to find their perfect job. Thus, they become one of the stakeholders of this job site, naukri.com.

## 3.Product Perspective

The site should work 24 hrs. The site identifies user by a login id and password. The naukri.com site does not work independently. It works together with the various company and the software run by the site of companies.

**3.1 Communication interface:** The users communicate with the job systems via a communication site of job profile.

**3.2 Software interface:** The messages sent via the site are specific to the target job profile software systems. At present, two main persons in this atmosphere is user and company.

**3.3 Hardware interface:** The software will run on company demand yet to be chosen.

### 3.4 User interfaces:

**3.4.1 Customer:** The customer user interface should be intuitive, such that 99.9% of all new users are able to complete their job profile without any assistance.

**3.4.2 Recruitment Panel:** Company personnel are responsible for removing deposits and adding job profile to naukri.com. There should be a simple interface (e.g., login) that they can use to initialize the services whenever they want.

**3.4.3 Updater:** The maintainer is responsible for adding new services to the site and servicing existing updating. An updater should be possible to add a new job profile to the site within 1 hour.

## **4.Product Features**

Product collects information about a simple job (e.g., salary, eligibility, work place, vacancy), communicates the user information to the user's job, and dispenses opportunity to the user. The companies provide their own software for their own users. The site software requires appropriate record keeping and security provisions. The software must handle concurrent accesses to the same profile correctly.

Features of Naukri.com are:

### **4.1 Register and complete your profile:**

After the registration, picture is uploaded, and the phone number is verified to increase the chance of better responses.

### **4.2 Search for suitable match:**

After logging into the Naukri.com account, preferences are to be provided for better search results. The preferences may include location, salary, no of vacancy.

### **4.3 Set filters:**

Filters can be set if interests not matching the preferred criteria occur. Those interests are available in the filtered interests.

### **4.4 Upgrade-Become a premium member:**

Up-gradation to premium membership enables faster search and better results. Becoming a premium member, one can directly contact the companies via contact numbers, e-mail or chats.



## **5.Operating Environment**

The hardware, software and technology used should have following specifications:

- Ability to signup and make profile
- Ability to view various job profiles
- Sight use for convenience
- Continuous updating
- Ability to connect to company
- Ability to take input from user
- Ability to validate user
- Ability to search through the database for providing better search results.
- Ability to provide results matching the preferences of the clients.
- Providing facility so that a customer can directly contact their preferred over phones, emails and chats.
- Ability to take the preferences from the user.
- Checks for the proper validation of the user.

## **6.Design and Implementation Constraints**

### **6.1 Validation of user**

Before starting to have the experience of this platform, the user needs to validate his/her account. This is basically done by uploading his/her resume as well as verifying the phone number. One needs to verify his e-mail id too to validate the account. All these are done in order to remove any ambiguity in further situation.

### **6.2 Validation of age**

Age of the user is validated as the one above 18 yrs , only, is allowed to register his account.

# 7. Specific Requirements

## 7.1 Functional Requirements

The functional requirements of the concerned website are as follows:

### Functional Requirement 1:

**Description:** The report is generated at the Admin Login page.

**Input:** The link to generate the report is clicked.

**Processing:** The server checks for the existence of any such report as requested by the administrator.

**Output:** Control is redirected to the screen of the generated report which contains three types of information- the report of paid member, the report of free member and that of all the members.

### Functional Requirement 2:

**Description:** A mail can be sent and read by the administrator.

**Input:** The link of mail or the shortcut to mail is clicked on.

**Processing:** Control is directed to the screen of mail.

**Output:** The mail screen contains two other links for reading and sending the mail. The administrator can use these links to read or send any e-mail.

### Functional Requirement 3:

**Description:** A new user needs to register first at the login page in order to have an experience from the website.

**Input:** The link for new registration or sign-up is clicked on.

**Processing:** The control is directed to the registration page which further moves to various other pages in order to complete the registration.

**Output:** After filling the form on the registration page, register button is clicked after which the data of the new user is stored in the database and an e-mail for the confirmation is sent to the user.

### Functional Requirement 4:

**Description:** The registered users can enter the website after logging into their account.

**Input:** User-id and password is entered.

**Processing:** It checks for the validation of the user. If the user-id and password are correct, the user will get his/her profile. The user can then update the resume and profile, change the picture and search for their job matches.

**Output:** The user is logged into his/her account after which he/she can update the profile, upload resume and search for their job matches.

## **Functional Requirement 5:**

**Description:** If the user forgets the password, he/she can retrieve it.

**Input:** The link or tab to retrieve the forgotten password is clicked on.

**Processing:** An e-mail is sent to the user on the verified e-mail id with a verification code or a link which redirects to a page to set a new password.

**Output:** After verifying from the e-mail id, the control is redirected to a new page which enables to set a new password for the current account.

## **Functional Requirement 6:**

**Description:** If the session expires, the page is redirected to the login page.

**Input:** No input is needed. It is an automatic process.

**Processing:** The server returns to the login page using the URL for the same.

**Output:** The user gets the login page.

## **Functional Requirement 7:**

**Description:** The user can search for there to-be employee.

**Input:** The interests and preferences such as salary, location, job category, profession etc are entered.

**Processing:** The persons matching the entered qualification and preferences are looked for into the database.

**Output:** All the persons matching the desired qualifications and preferences are displayed along with their complete details.

## **Functional Requirement 8:**

**Description:** A user can also apply a job to any company.

**Input:** All the necessary details required for the details is filled in the respective form.

**Processing:** It checks whether the applicant is applicable for the job or not.

**Output:** If the applicant is applicable for the vacancy, he/she is sent an e-mail for the further procedure in order to get the required job.

### **Functional Requirement 9:**

**Description:** A user can also apply for the various job on this website.

**Input:** All the details regarding the date, schedule and the location of the user is filled out.

**Processing:** The server search for all the options from the database matching the preferences of the user.

**Output:** The screen displays all the available options which matches the date and location of the interview of the user along with the contact details of the company so that he/she can be contacted by the user

## **7.2Non-Functional Requirements**

The non-functional requirements for the matrimonial website Naukri.com

### **Non-Functional Requirement 1:**

**Description:** Performance Requirements.

The website must be able to function in all conditions even in case of high network traffic. There should not be any interrupted connection. High data transfer rate must be ensured.

### **Non-Functional Requirement 2:**

**Description:** Security and Privacy Requirements.

User accessibility must be censured in all the possible ways. Users are advised not to share their password with anyone. There must not be any way which makes the filtered details as well as the chats of the user visible to any user. There must be complete privacy. The maximum number of attempts to enter the password is three. If anyone attempts one more time, an e-mail is sent to the user about the concerned situation.

### **Non-Functional Requirement 3:**

**Description:** Software Quality.

The software must ensure the two most important objectives- security and performance. The interface must be available 24 hours a day. The network must provide maximal security. The administrator only has the right to make changes in the database such as addition, updating and deletion of the data from the database.

## **Other Nonfunctional Requirements**

### **Performance Requirements**

- It must be able to perform in adverse conditions like low vacancies etc.
- Uninterrupted interrupted connections
- High job selection transfer rate

### **Security Requirements**

- Users accessibility is censured in all the ways
- Users are advised to change their Password regular basis
- Users are advised not to tell their user id and Password to anyone
- The maximum number of attempts to enter Password will be three

## **External Interface Requirements**

### **User Interfaces**

The customer user interface should be intuitive, such that 99.9% of all new users are able to complete their job profile without any assistance

### **Hardware Interfaces**

The hardware should have following specifications:

- Ability to signup and make profile
- Ability to view various job profiles
- Sight use for convenience
- Document Backup in case of failure

- Continuous updating
- Ability to connect to company
- Ability to take input from user

## 8. Software Quality Attributes

**8.1 Availability:** The naukri.com site has to be available 24 hours a day.

**8.2 Security:** The naukri.com site should provide maximal security . In order to make that much more transparent there are the following requirements:

1. It must be impossible to visit into the sight daily basis to check
2. It must be impossible to visit into the to update

## Other Requirements

**Data Base:** The naukri.com site must be able to use several data formats according to the data formats that are provided by the data bases of different companies. A job should have all the properties of a good job (Salary, Work place ,etc.).

## Data Flow Diagrams

A Data flow diagram (DFD) is a graphical system model that shows all of the main requirements for an information system in one diagram inputs and outputs, processes and data storage. A DFD describes what data flows rather how it is processed. Everyone working on the development project can see all aspects of the system working together at once with the DFD. The DFD is also easy to read because it is graphical model.

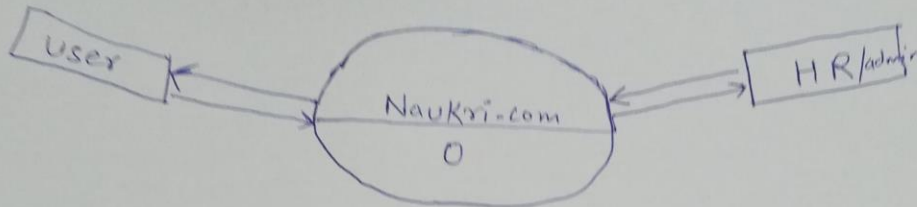
The DFD is mainly used during problem analysis. End user, management and all information system workers typically can read and interpret the DFD with minimal training.

Data Flow Diagrams are composed of four basic symbols: --

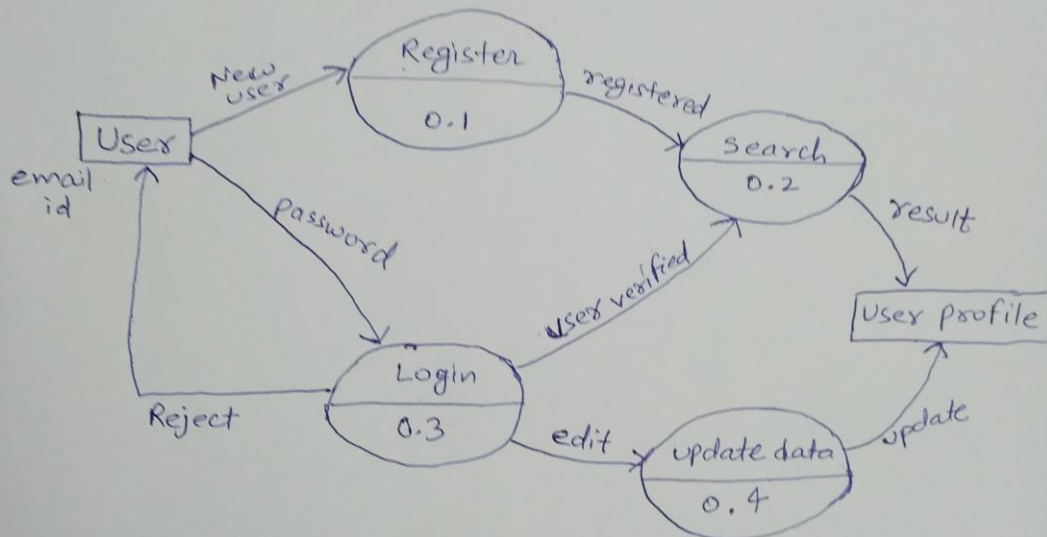
- **External entity**—An external entity represents sources of the data to the system or destinations of data from the system. It is represented by a rectangle.
- **Data Flow**— The data flow represents the movement of the data. An arrow towards the destination represents the movement that is data flow.
- **Data Store**— A data store is a repository of data temporarily or permanently stored within the system. Only process can directly connect to the data stores.

- Process— A process represents an activity that transforms or manipulates the data. Processes are represented by circle with the label of it.

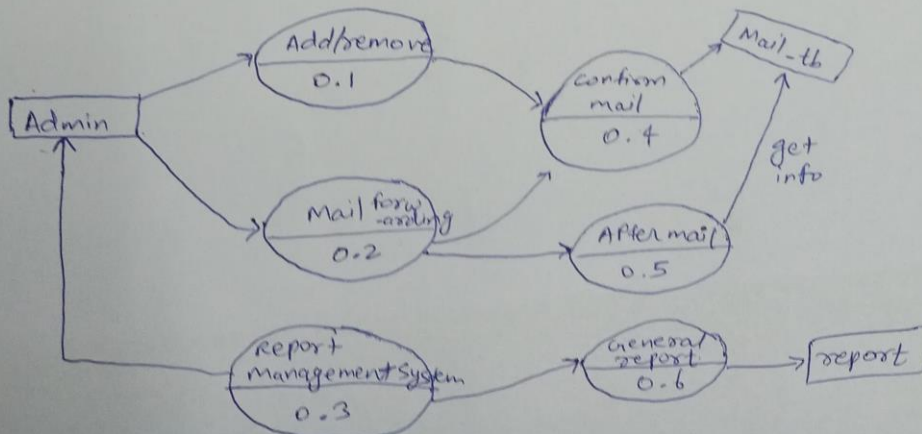
### Level 0 DFD:



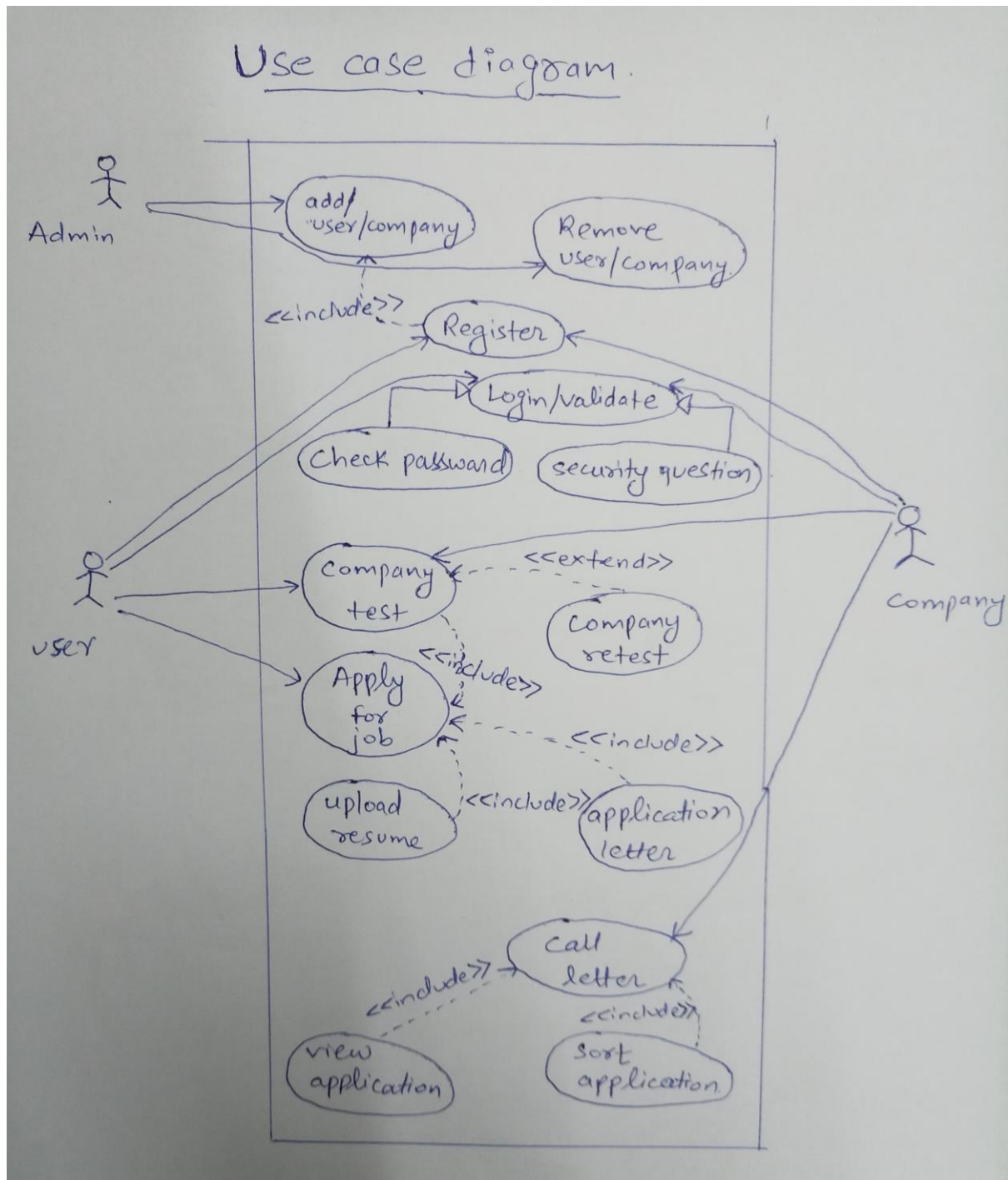
### Level 1 DFD: (for users)



### Level 1 DFD: (for administrators)



# USE CASE DIAGRAM

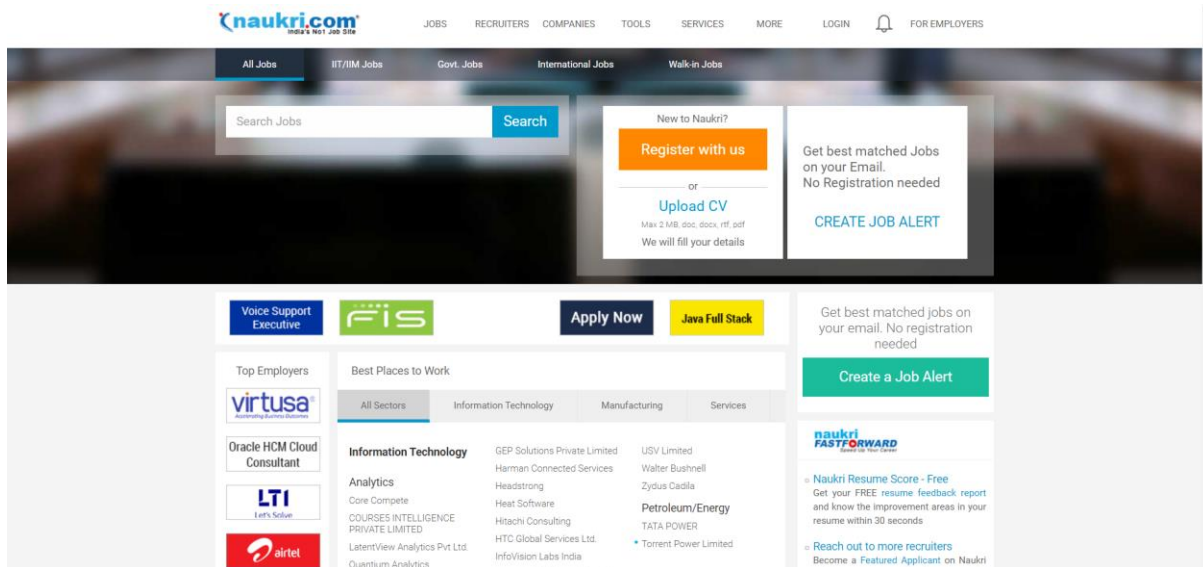




# MANUAL TEST CASES

CASE ID	TEST CASE	TEST CONDITION	EXCEPTED OUTPUT	ACTUAL OUTPUT	PASS/FAIL
1.	VALIDATION TEST CASE	REQUIRED FIELD VALIDATION	MANDATORY FIELD SHOULD NOT BE BLANK	YOU HAVE TO ENTER VALUE IN MANDATORY FIELD	PASS
		REGULAR EXPRESSION	A PREDEFINED FORMAT SHOULD BE FOLLOWED	CHECK PROPER FORMAT	PASS
		COMPARE VALIDATION	CHECK WITH PREDEFINE CONTROL	COMPARE WITH CONTROL	PASS
2.	REGISTRATION	E-MAIL	EMAIL FORMAT MUST BE INPUT	EMAIL FORMAT MUST BE INPUT	PASS
		CONFIRMATION PASSWORD	PASSWORD AND CONFIRM PASSWORD MATCH	PASSWORD AND CONFIRM PASSWORD MATCH	PASS
		TEXT FIELD	ALL INFORMATION MUST BE INPUT	ALL INFORMATION MUST BE INPUT	PASS
		PIN CODE	PIN CODE MUST BE 6 DIGITS	PIN CODE MUST BE 6 DIGITS	PASS
		MOBILE NO.	MUST BE A DIGIT	MUST BE A DIGIT	PASS
3.	LOGIN	NON-REGISTERED USER	THE SYSTEM WILL NOT ALLOW NON-REGISTERED USER TO LOGIN	NON-REGISTERED USER CANNOT LOGIN	FAIL
		WRONG USERNAME AND PASSWORD	THE SYSTEM DISPLAYS AN ERROR MESSAGE, PREVENTS FROM LOGIN	THE SYSTEM DISPLAYS AN ERROR MESSAGE "INVALID USERNAME OR PASSWORD", PREVENTS FROM LOGIN	FAIL
		ENTER CORRECT USER NAME AND PASSWORD	THE SYSTEM UPDATES SESSION VARIABLES AND REDIRECT TO HOME PAGE	THE SYSTEM DISPLAYS HOME PAGE FOR USER/ADMIN	PASS
4.	PAYMENT PAGE	COMPULSARY FIELD DATA ENTRY	ENTER DATA IN A COMPULSARY FIELD WITH REQUIRED FIELD VALIDATIONS	DATA MUST BE FIELD IN COMPULSARY FIELD OTHERWISE IT DISPLAY MESSAGES	PASS
		PIN NO.	PIN CODE MUST BE 16 DIGITS	PIN CODE MUST BE 16 DIGITS	PASS
5.	CHANGE PASSWORD	CHANGE PASSWORD	IF USER WANTS TO CHANGE PASSWORD, PASSWORD WILL CHANGE	THE SYSTEM UPDATE PASSWORD AFTER VERIFIED OLD PASSWORD	PASS

# User Interface



## Conclusion

Naukri.com is the brain child of Sanjeev Bikhchandani and started the company, Info Edge (India). Info Edge is a listed company on the Bombay Stock Exchange and National Stock Exchange of India. It went public in November 2006.

As of Dec, 2016 Naukri.com had a database of about 44 million registered job seekers and an average of about 11,000 resumes were added daily while about 130,000 resumes were modified daily during the Fiscal year 2013-14. During the Fiscal year 2015-16, 51,000 corporate customers (including hiring consultants/firms) paid Naukri.com for services like database access, advertising / listing on the site amongst others.

Naukri.com is one of the core businesses of Info Edge India. Other online recruitment businesses are Quadrangle, web portal Naukrigulf.com, entry-level hiring website Firstnaukri.com. According to comscore, Naukri.com leads the online job market with 70% traffic share. The website has 40 million resumes registered.

## References:

Naukri.com official site visit and data collection.

[www.naukri.com](http://www.naukri.com)

[www.google.co.in](http://www.google.co.in)

[www.wikipedia.com](http://www.wikipedia.com)