

A Pioneer to Career Counselling

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ABSTRACT

This paper focused on the roles and responsibilities of an employee in a software industry and opportunities for a student after completion of their under graduation or post-graduation in computer science and related departments. It creates awareness to students belongs to which subject relates to which software field in IT industry like software developer, network engineer, network administrator, Computer Scientist, systems analyst, Business Analyst, Tech Support, IT consultant or specialist and Software Tester.

Keywords : Fields in Software Industry, IT industry

I. INTRODUCTION

The primary requirement of any programming language is it is the only language that is understood to the computer.

Here in this paper we have represented couple of languages and databases that is evolved along with their objectives in the real time environment which is nothing but a job role.

JAVA: Java is a general purpose language which is of high demand now a days in order to attain a developer job in a software company java language plays a major role. Recently we need to learn about the concepts of hibernate, struts, springs, micro services etc. Java developer role plays a major role in the application development.

C language: C is a structured programming language, now days it is mainly used for developing variety of graphics and game applications for ipad, iphone and android smart phones. Operating systems like Unix, Microsoft windows, Android operating systems are written in C language. Directly or indirectly C is influencing for developing new languages like c++, c#, perl, PHP.

C++ language: Cpp is a partial object oriented language, As a c++ developer, the roles are developing code for web browsers, mainly used in enterprise software development, advance graphics with maya 3d and also for developing engineering systems like CAD/CAM. Highly used applications like photoshop and illustrator are scripted in c++. It also facilitates multiplayer games with networking.

UNIX: UNIX operating system mainly used in Google, Twitter, Face book, Amazon companies. For both road and air traffic controlling it proves a best in any other alternatives. It also used for editing and graphics in movies.

Web technology: Web technology is used for developing static and dynamic web pages. It interprets more scripting languages; java script used for developing dynamic HTML codes. It supports for every popular browsers. It creates user friendly sites with clear navigation. Responsible for design; develop code, modifying web sites. It plays a major role in web developing, web designing with the technologies HTML, CSS, java script, Bootstrap, PHP, angular js.

Data mining: Data mining have more demand from long years with so many reasons. one of that, data mining used by educational institutes for identifying

student future learning behavior, data mining applied in bio informatics for gene finding, disease diagnosis, disease prognosis. It is used to solve problems in banking and finance and also used for detecting crimes and their relationship with criminals using data mining techniques. As a database scientist Assesses database performance, Secures database by preparing access and control policies and procedures.

DBMS: The system that controls data. All the health care centers and hospitals stores the patient data for easy accessibility. It is not only for store the data but also security of the data. It is used to predict and collect weather information. All Social networking sites uses highly reliable and capable data bases for user information. Government organization use most powerful databases for collecting data to research and defense work. Working as a DBA Establish and maintain backup and recovery policies and procedures, Secures database by preparing access and control policies and procedures.

Operating system: Operating system is system software that manages computer hardware and software resources and provides common services for computer programs. The main roles of an operating system are Control Hardware Access, Manage Files and Folders, Provide User Interface, Manage Applications .AS a Systems analyst investigate and analyse business problems and then design information systems that provide a feasible solution.

Network programming: Computer network programming involves writing computer programs that enable processes to communicate with each other across a computer network. Working as network programmer capacity management and audit of IP addressing and hosted devices within data centers.

R language: R is a most powerful language used for Data analysis and statistical computing. Now a day's R language tool available as jupyter Notebooks used by data science communities across the world. But mostly know as interactive R studio. The style of coding is quite easy. It's open source. No need to pay any subscription charges. Working as a data scientist Processing, cleansing, and verifying the integrity of data used for analysis, doing statistical analysis, and building high quality prediction systems integrated with our products.

Computer organization: Computer organization helps optimize performance-based products. So many things are depend on computer organization. Some of them are Performance analysis of practical software, Parallel software and its execution, Embedded and mobile computing, High-performance game programming, High-performance databases, Accelerators, Modern compilers and code optimization, Low- and mid-level networking issues. Network engineers have to create complex blueprints for communication networks, and must make sure the systems will work together.

Computer Networks: A computer network, or data network, is a digital telecommunications network which allows nodes to *share* resources. Network engineering is one of the more technically demanding IT job. As a network engineer administering, maintaining and upgrading communication systems, local area networks and wide area networks for an organization. Network engineers are also responsible for security, data storage and disaster recovery strategies. Network engineers have to create complex blueprints for communication networks, and must make sure the systems will work together.

PPL: Principles of programming language ppl are to provide the good knowledge about the fundamentals to design, implementation and applications of the programming language. The main role of software architect is Select SW Tools, Methodology & coding rules, strictly following internal process/methods & tools recommendations

II. METHODS AND MATERIAL

In this paper we are using java script, HTML and CSS. Java script is used in front page design that is student enrollment page and also used goback() method for go to main page. For front page design we are using user defined methods in java script.All the script code written with in the script open tag <script> and ending with closing tag </script>.All these script written with in the head tag or in the body part .

Html is used in front page design as forms. These forms include text boxes and submit button. For the designing of subjects each subject has a separate .html code.

By using CSS to design and apply styles to all the .html files in a paper. By using we apply font sizes, colors and other styles to these files.

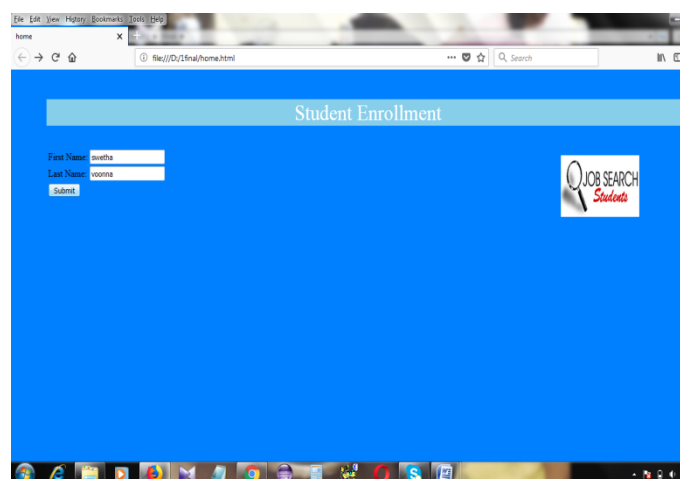
Java script is very easy to implement because it is integrated with HTML. The way to define a method in java script is function keyword followed by method name along with parameter list and statements written in curly braces.

III. RESULTS AND DISCUSSION

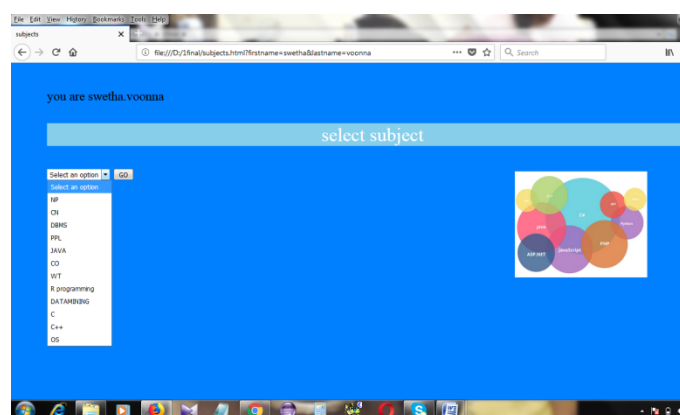
All paragraphs must be indented. All paragraphs must be justified, i.e. both left justified and right-justified.

The results of this paper is consists of roles of an employee in IT field based on selection of a subject in a drop down list. Then click a go button.

First open the home page or a student enrollment page with the fields like first name and last name of a student Then click a submit button.

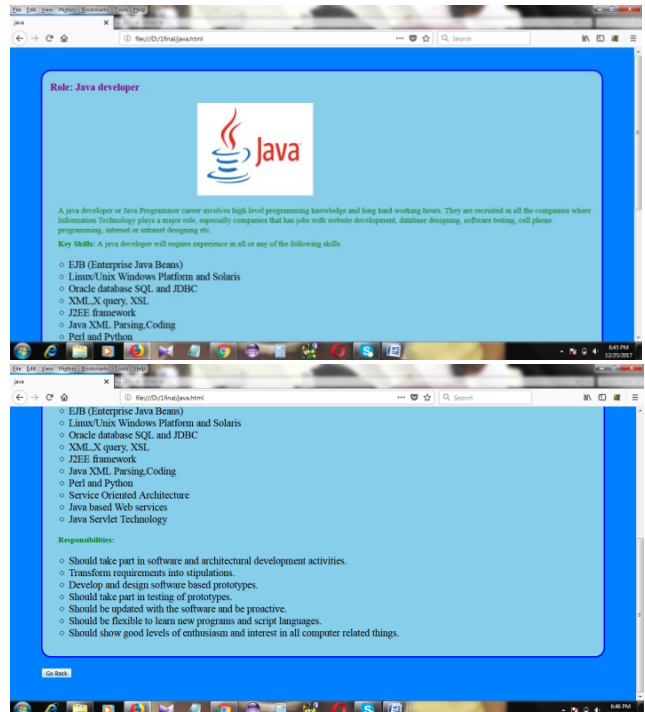


After clicking the submit button next page

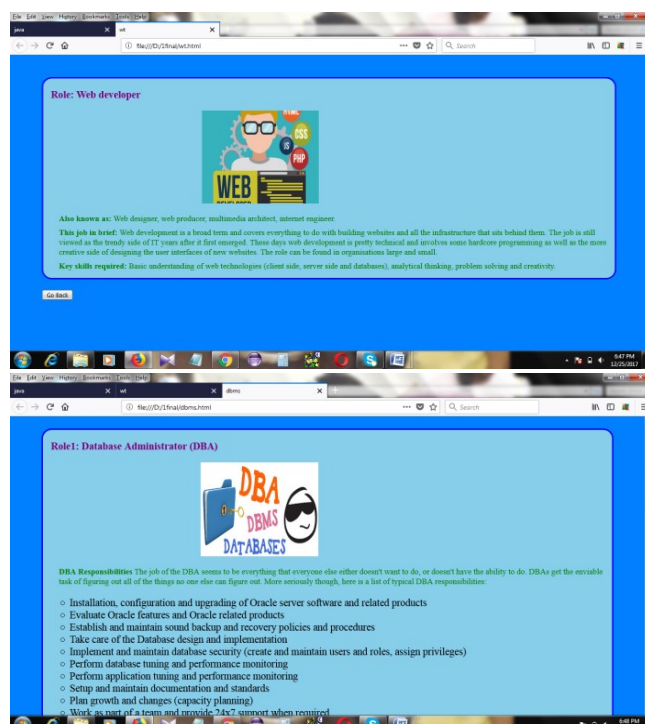


display with the student name as shown above. Then select the subject for searching the job role in particular subject. Then click on go button.

The student select DBMS subject in drop down list .It displays the roles and responsibilities of that particular subject.



Then click go back button go to the subject selection page. next the student select Web technology subject in drop down list .it displays as below,



IV. CONCLUSION

We would like to conclude this paper that aims to create awareness to the students or the people searching for job in a software field. It gives knowledge to all those people related to which type of job fields in a IT industry related subjects and also common fields in a industry. This paper helps to all the people searching for a job in IT industry if they are experienced or a fresher.

V. REFERENCES

- [1]. A Novel approach to Career Counselling-IJRASET
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