

Innovative Science and Technology Publications

International Journal of Future Innovative Science and Technology,
ISSN: 2454- 194X Volume-3, Issue-1, Jan - 2017



ANDROID BASED CAREER DENDROGRAM

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Jan – 2017

www.istpublications.com

Received: Sep-2016 Revised: Oct-2016 Accepted: Dec-2016 Published: Jan-2017

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Abstract: Career Dendrogram is the Android Application, which enables user to get information about future career options. By choosing the current qualification user will get list of career options, and by after choosing one of option user will get a huge description about respective field. Career Dendrogram Application helps the student to choose the right Career Path after +2. The application provides comprehensive information to enable students decide on the right Career Choices. It also provides detailed information for students choosing Engineering, Medicine, Law, Arts and Management. The Application allows students to stay in tune with current trends in the education field and also provide Career tips and Career options.

Keywords: Student's interest, Skills, Courses, Career opportunities.

1. INTRODUCTION

The growing impact over smart phone increases the development of mobile application for educational Guidance and Counseling (GC). The application is used for Guidance and Counseling services that run on mobile devices. The application is designed specifically for school students.

A Career goal helps you focus on what you want to do for a living. A career goal can be a specific job you want to do-such as doctor or teacher or career goal can be a particular field you want to work in, such as medicine. Rather than limiting your future, a career goal may help you discover possibilities that you wouldn't have thought of otherwise. A career goal will also guide you into doing what you want with your life-rather than just drifting into a job. Generally Career goal is based on your skills and interests, career opportunities, and job trends. Once you have chosen a career, think strategically about the steps to accomplish your goal. Understanding and accomplishing your career goal will be a lot easier if you create a career plan. A career plan determines your skills and interests, what career best suits your talents, and what skills and training you need for your chosen career.

2. LITERATURE REVIEW

According to Watts and Fret well, Career guidance and orientation services have been defined as services intended to assist individuals, of any age and at any point

throughout their lives so as to make educational, training and occupational choices and to manage their careers. They include three main elements: (1) Career information, (2) Career counseling, and (3) Career education. Career guidance in schools usually focuses on career information that provides information on courses, occupations and career paths; it also includes labor market information. The aim of Career counseling in schools is to hold a one-to-one interview or in small groups, distinctive career issue faced by individuals such as career in education, as part of educational curriculum, and attention is paid to help groups of individuals to develop their competence to manage their career development.

The role of Career Guidance is not only limited to education process but also effecting the national social and economic development. According to Watts, formal Career guidance services are derived from economic and social development which plays crucial role in helping education systems and labor-market work in coordination in order to realize their goals successfully.

Generally, the aim of Career Guidance is to help students make decisions based on their interests, passion and abilities, while taking into account current and future career opportunities. Students are encouraged to learn more about the world of work across different industries so that they may take right steps to obtain their objective and goals/aspirations. Yet another important role of career guidance in schools is to prepare students for the world of work by equipping them with the right kind of skills so that they may stay relevant and fit in the world economy while

leading a purposeful life. As revealed by research that education in corroboration with career guidance have positive impact on the students' academic performance and well-being for they help them make good decisions regarding their education career.

3. EXISTING SYSTEM

An online career guidance system enables users to search for website and browse information about different career opportunities. The database of career guidance system is based on the standardized system for cataloguing and classifying different career opportunities.

There is no unified system for career guidance. Students generally have to go through hundreds of websites to choose their best course. In the absence of adult guidance, they often find it difficult to find relevant information about the career they want. Generally students make poorly researched decisions which they then have to struggle with.

There is no unified system for career guidance. Students generally have to go through hundreds of websites to choose their best course. In the absence of adult guidance, they often find it difficult to find relevant information about the career they want. Generally students make poorly researched decisions which they then have to struggle with. Some of the job sites are listed below:

www.careerjunction.co.za

www.careers24.com

www.gradx.net www.studentvillage.co.za

IV. PROPOSED SYSTEM

Passing out of school is a big time for most of the students because for most it is the first time they will have to make life-changing choice, their undergraduate degree. A proper undergraduate course selection is an important decision in the life of higher secondary students. Every year thousands of high school students in our country face the challenge of choosing their most suitable university/college course. This system includes a database of actual requirements of workforce, the type of educational or skill qualification required, nature of jobs, eligibility criteria, salary, career development in every field of employment

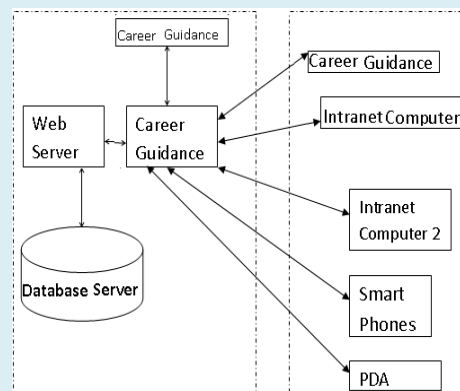
Advantages

- Students will be able to see various career Choices.
- Avoid wrong selection of course of education or career
- Get prior idea about the skills required for the desired jobs.
- Students can avoid wasting time and money for going counseling.

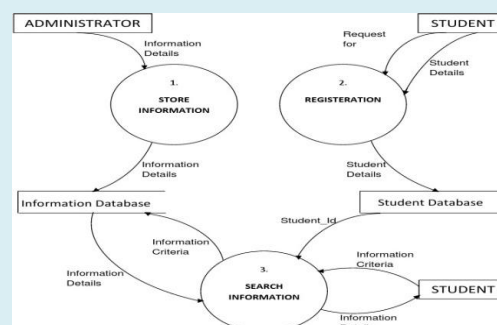
5. SYSTEM DESIGN

System design focuses on the final system and the process by which it is developed. It leads to transition from a user-oriented document which means system proposal a programmer-oriented document. The design methodology followed for this project is the bottom-up design strategy. In this approach, the basic sets of elements are individual modules in to this as a reference if necessary. The benefit of the design is that it permits the review of the modules during the system development process.

(1)Architecture Diagram



(2)Dataflow Diagram



6.MODULES

- Enrollment of basic details
- List of degrees and courses
- Career guidance

(1)Enrollment of basic details

Get basic details about the students such as name, address, email id, phone number, etc.,

(2) List of degrees and courses

Career guidance in schools usually focuses on career information that provides information on courses, occupations and career paths; it also includes labor market information.

(3) Career guidance

A database of actual requirements of workforce, the type of educational or skill qualification required, nature of jobs, eligibility criteria, salary, career development in every field of employment.

Career education often refers to vocational training for a specific job field. Instead of focusing on academic subjects, a student learns the tools of an occupation through hands-on training.

7. TESTING

Software Testing is the process of executing a program or system with the intent of finding errors. Testing involves any activity aimed at evaluating an attribute or capability of a program or system and determining that it meets its required results. The scope of software testing includes examination of code as well as execution of that code in various environments and conditions as well as examining the quality aspects of code: does it do what it is supposed to do and do what is need to do. Testing helps not only to uncover errors introduced during coding, but also locates errors committed during the previous phases. Thus the aim of testing is to uncover requirements, design or coding or errors in the program.

(1) Unit testing

Unit testing focuses verification effort on the smallest unit of software design – the software component or module. Using the component level design description as a guide, important control paths are tested to uncover errors within the boundary of the module. The relative complexity of tests and uncovered scope established for unit testing. The unit testing is white-box oriented, and step can be conducted in parallel for multiple components.

(2) Integration testing

Integration testing is systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by design. The entire program is tested as whole. Correction is difficult because isolation of causes is complicated by vast expanse of entire program. Once these errors are corrected, new ones appear and the process continues in a seemingly endless loop, user acceptance; here it should satisfy the firm's need. The software should keep in touch with perspective system; user at the time of developing and making changes whenever required. This done with respect to the following points

- Input Screen Designs,
- Output Screen Designs,
- Online message to guide the user and the like.

The above testing is done taking various kinds of test data.

(3) Output testing

The system considered is tested for Preparation of test data plays a vital role in the system testing. After preparing the test data, the system under study is tested using that test data. While testing the system by which test data errors are again uncovered and corrected by using above testing steps and corrections are also noted for future use.

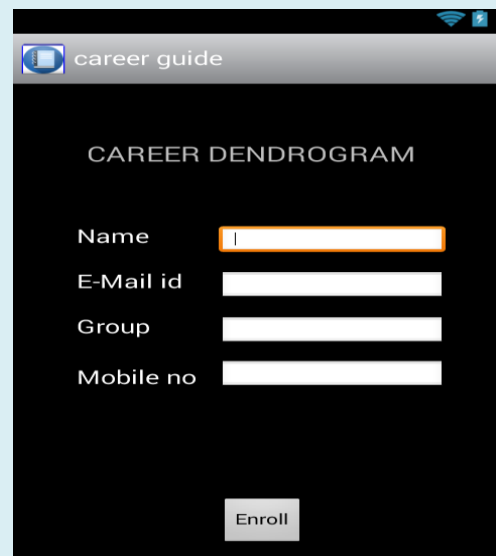
(4) Validation testing

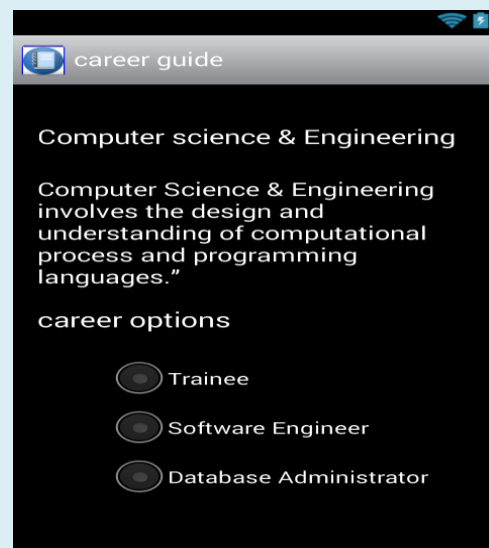
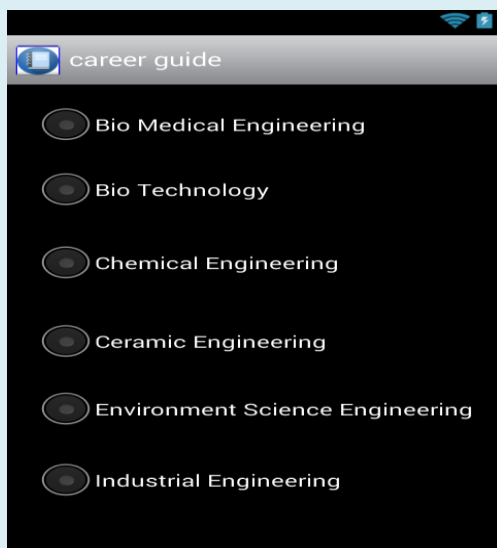
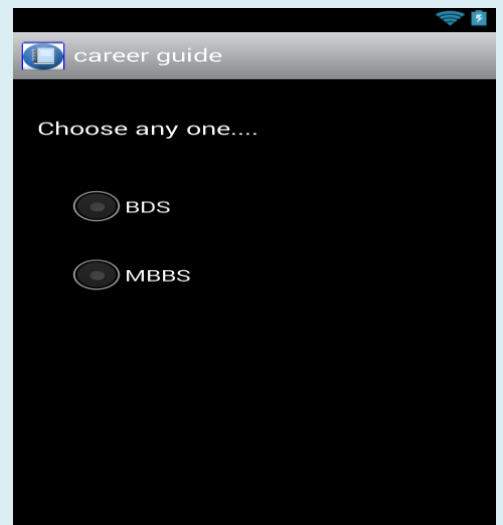
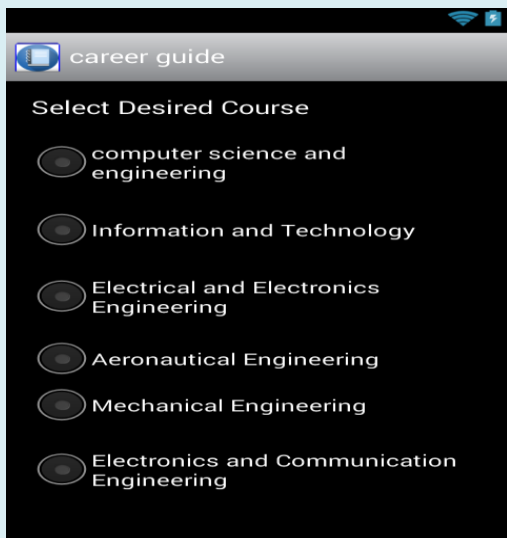
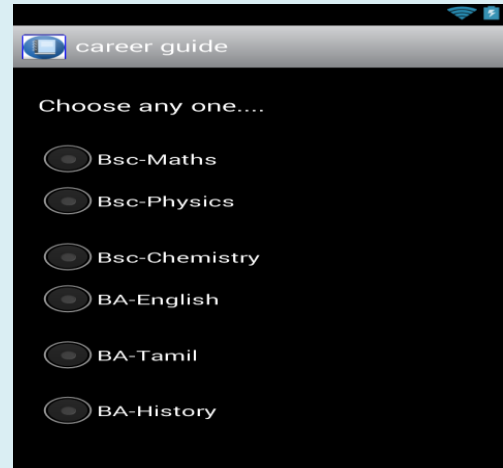
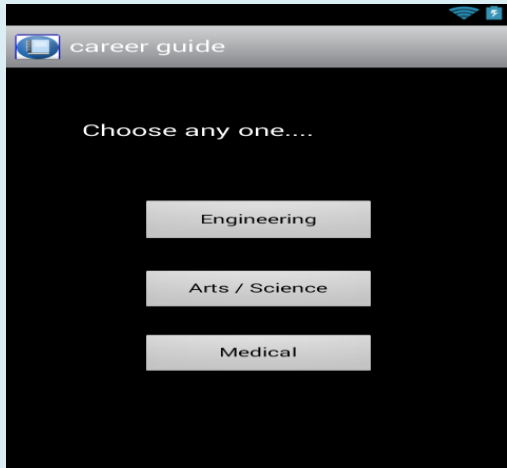
Validation testing is defined with a simple definition that validation succeeds when the software function in a manner that can be reasonably accepted by the customer. The validation testing is done in this system using common rules and custom rules. Using custom rules date checking or validation like start date, end date are done. Also check each data entry field for numeric values and string values based on custom rule.

(5) System testing

The main purpose of testing and information system is to find the errors and correct them. The implemented system is tested of its functionality and whether it meets the desires aims of the project. The network connections of the systems are verified. The server and database are initialized. A successful test is one which finds an error. By performing the system testing, the system performance is according to the specifications or not. Here, checked the system is performance in correctly with the appropriate inputs and outputs. Tested whether the controls are working properly or not.

8. RESULTS





9. CONCLUSION AND FUTURE WORK

Career Guidance System is an innovative idea. The opportunities provided by this e-medium are immense and many students can make use of this medium to choose a career more appropriate to their skills. In today's competitive and technology driven world, with innumerable options available, the student is generally confused on choosing the right or more suited career. The world these days is moving towards —information streams. The information is thrown to the user rather than the user learning about the information. Keeping the above in view, it is felt that the proposed system has the ability to connect to various students and help them connect to most suited career. To conclude, the objective of designing this system is to lend a helping hand to the students aiming for such a career. By using our system, one will be guided towards a career to pursue and how to work towards it. The proposed system currently deals with guiding students in a direction that is right for them i.e. to select a proper career path depending upon the present skill sets and mental abilities. But this is only for academic subjects. The plan for future is to expand this system by including vocational subjects as well. It may be reiterated that at this juncture our objective is entirely on academic subjects and not on vocational subjects as these arise from an individual's liking and would need further improvisation on the mode.

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