SRI SAI RAM INSTITUTE OF TECHNOLOGY

AimBigAThon 1.0

INTRA COLLEGE HACKATHON - ONLY FOR SAIRAMITES.

Team Name   :   HACKWEISERS

Team Lead Name   :   Abirami S

Problem Statement Number : 10

PROBLEM STATEMENT

Not every child can become an engineer or a doctor. Create a tool using the child's academics and psychology to predict the best field for him.

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SOLUTION

- The main objective of our hack is to help perplexed high schoolers to choose their career path.

- This is done through careful analysis of the student's academic interests, talents and his or her psychology.

- The tasks involved in solving this problem are:
i.   Creation of student's profile using details such as name, age, academic information, etc.
ii.   Provide a menu/list of psychological tests to assess one's behaviour and skills.
iii. Quizzes to understand their logical thinking, communication, etc., are also provided to understand them properly and help build an accurate profile.
iv.   Create a portfolio of the student based on the test results.
v.   Provide with the most suitable professions based on his/her profile built.
vi.   Further details about the courses that one needs to study, colleges providing the required courses, notable people, scope of the profession, salary, etc., are provided.

EXAMPLE

Step 1: Creating student's profile:
Name: Aparna S
Age: 17
Academic details: subjects taken in high school(PCM+CS), workshops attended, subjects listed according to most to least interested in, strong and weak subjects, additional certification obtained if any, symposiums/seminars , etc., attended if any.

Step 2: psychological test like "Who am I?"-to detect unknown traits and talents, "Riso-Hudson", etc., to find ones nature such as extrovert/introvert, creativity, spontaneity, etc.
For example, let's say Aparna is an extroverted girl who loves coding, is creative and prefers a desk job over one that requires travelling a lot.

Step 3: Quizzes such as puzzles, vocabulary skills, etc., to create an effective portfolio:
Eg, let's say Aparna has scored high in logical thinking and quite good in vocabulary skills.

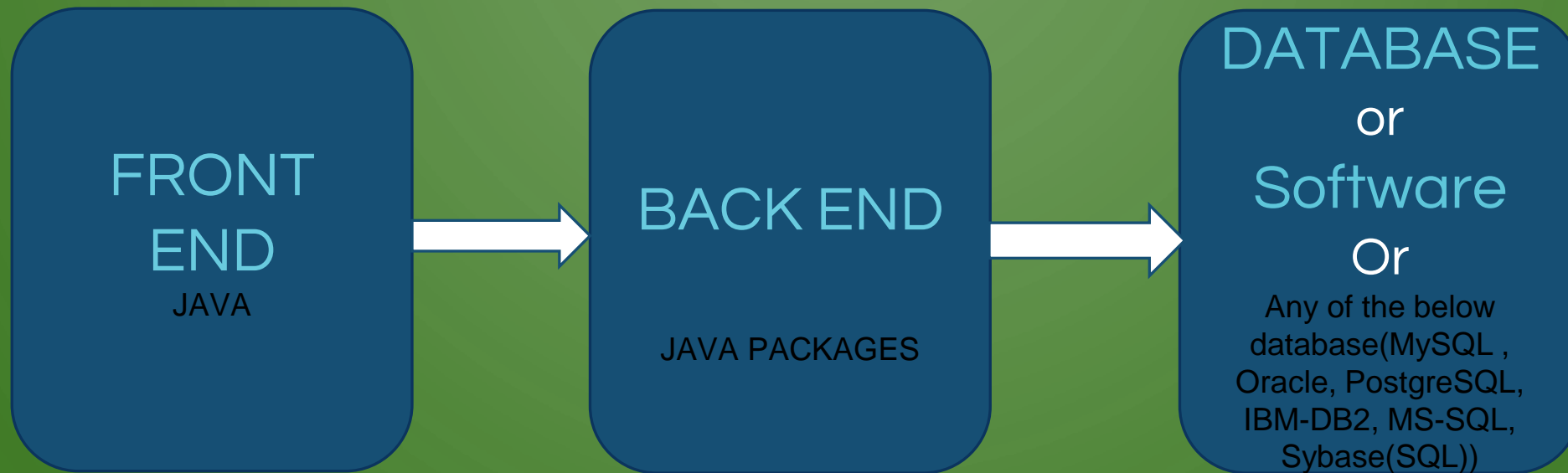**Step 4:** A portfolio of Aparna is created that lists the results of the tests she has taken.

Step 5: Based on her profile, suitable professions are listed like Software Engineer, App developer, etc.

Step 6: Let's assume Aparna has clicked the option App Developer, then the course required to be studied is B.E/M.E/M.S in Computer Science Engineering and colleges that provide this course are Sairam Institute of Technology, Rajalakshmi Engineering College, etc., and other such details.

USE CASE DIAGRAM

Give us the architecture of Use Case Scenario of your Solution. An image is better than 100words of

example :

FRONT END

JAVA

→

BACK END

JAVA PACKAGES

→

DATABASE

or

Software

Or

Any of the below database(MySQL , Oracle, PostgreSQL, IBM-DB2, MS-SQL, Sybase(SQL))

(Other kind of Use Case diagrams are also welcomed)

Show Stopper

Tell us the boundary condition and requirements of your solution without which the solution will fail. And tell us how you will overcome them?

The basic boundary conditions is the java and user defined inputs. Each and every input should be given in mentioned parameters.

Conclusion

This problem is solved based on the mental and physical abilities , his/her interest analysis , his/her academic talents and his/her society involvement etc .the best field or career choosing is done by above test and hence he/she can get a best career by choosing his/her own interested field in these tests.

THANK YOU