The Coding App

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Abstract- *It is a Web based compiler. The main idea to use this compiler to make compilation in easier way. It is based on Client-server architecture. Windows 7 on 64 bit is used for server machine & android operating system for client system. In this application three editors are included C, C++& java. There is no need to installation of any s/w for C or C++ language or any command prompt. User can do programming on those three editors. Apache Tomcat server v6.0 is used in this application. GCC compiler is used for C & C++ coding. JDK 1.7 is used for java coding. User can write the code on editor screen and appropriate output or error can be displayed on same. Multiple users can operate or do the coding on this application by using Wi-Fi connectivity. Users can easily do the coding and will get the output. This application can be used from anywhere or any system by using Wi-Fi connectivity. It reduces the user time. This application is reliable and very easy to handle.*

Data mining is that the method of extracting helpful info through information analysis. It's conjointly referred to as information discovery. Helpful information obtained as a results of data processing are often use to chop prices, increase revenues or each. Target information for mining purpose is categorical and numerical having information sorts like whole number, decimal, float, char, varchar2 etc. the most aim of this project is we are able to simply write a java program compile it and correct in on-line.

The consumer machine doesn't have java development kit. The consumer machine is just connected to the server having java compiler, so server executes the java code produces the error message to the acceptable consumer machine. During this project is additionally creates a security editor. This editor performs cryptography and decoding of the file.

Keywords- Java, C & C++, Apache Tomcat, Android, JDK v1.7.

I. INTRODUCTION

In this application we will create an Android app which will have an editor like a notepad. With the help of this editor user can type a, C, C++ and Java program. There is no need to installation of any s/w for C, C++ and Java in android phone. User can do programming in the editor. Apache Tomcat server v6.0 is used in this application on the server side C, C++ and Java (1.7) compiler is used on the server side. The editor screen is divided into two parts one for coding and another part for showing error message or output. Multiple users can operate or do the coding on this application by using WIFI connectivity. Users can easily do the coding and will get the output. This application can be used from anywhere or any android mobile by using intranet connectivity. It reduces the user time. This application is reliable and very easy to handle. This Android app can be used in colleges during the lectures. This will help teacher to teach practically to student without changing the location from lecture room to practical room.

II. PROBLEM STATEMENT:

Existing Web based compiler the main idea to use this compiler to make compilation in easier way. It is based on Client-server architecture. Windows 7 on 64 bit is used for server machine & any operating system for client system. In this application three editors are included C, C++& java. There is no need to installation of any s/w for C or C++ language or any command prompt.

Before that the teacher use to teach student programming in lecture classes, so there are some students are not able to understand the programming without any practical knowledge. This application is user friendly with any type of conditions and also very useful for students.

III. SCOPE OF PROJECT

- This application is very reliable and easy to handle.
- Reduce the user time.
- Client-server architecture is used.
- Easy to take programming lectures
- By using Wi-Fi connection, it can be used from anywhere or any system.
- Stores the all files from client side.
- Windows 8 on 64 bit is used for server machine.
- Any operating system for client (Marshmallow, Lollipop etc.)
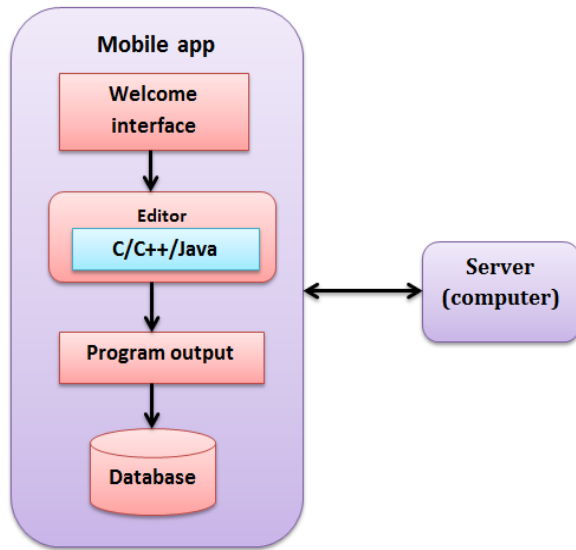
IV. ARCHITECTURES

Fig: System Architecture Diagram

V. DISCRIPTION OF ARCHITECTURE

Web based compiler is a computerized basic application so it has some constraints. The compilation speed of the application is fast but has no ability to take decision and display the output in any way. It needs user for all that things so like other application this application also has some constraints.

The consumer machine doesn't have java development kit The consumer machine is just connected to the server having java compiler ,so server executes the java code produces the error message to the acceptable consumer machine. During this project is additionally creates a security editor. This editor performs cryptography and decoding of the file.

VI. SYSTEM REQUIREMENTS

Table:1.1 System Requirements

| Software Requirements	
OS Server	Windows XP or later for server
Client	Android Mobile
Tools and environment	Apache Tomcat 6, till jdk1.8 and below
User Interface	Android
Code Behind	C, C++, Java ,
Hardware Requirements	
Processor	Core 2 duo and above
RAM	Minimum 2GB
Secondary Storage	Minimum 60GB

VII. MODELS

Model 1: - MAIN INTERFACE
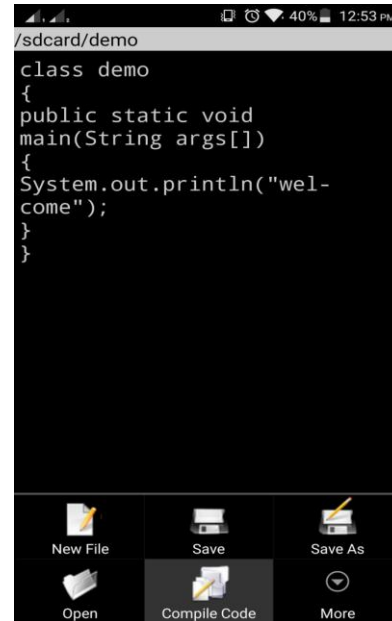
This is the main interface of our application. Here user can write any program of C, C++ or Java. After writing code user can have to save code by clicking on "Save" or "Save As". After clicking on "Compile" it is automatically detected that which language code is this C, C++ or Java and code is compiled. By clicking on "new File" user can write new code. User can browse all the saved files i.e. codes, outputs or errors. More options are available in "More".
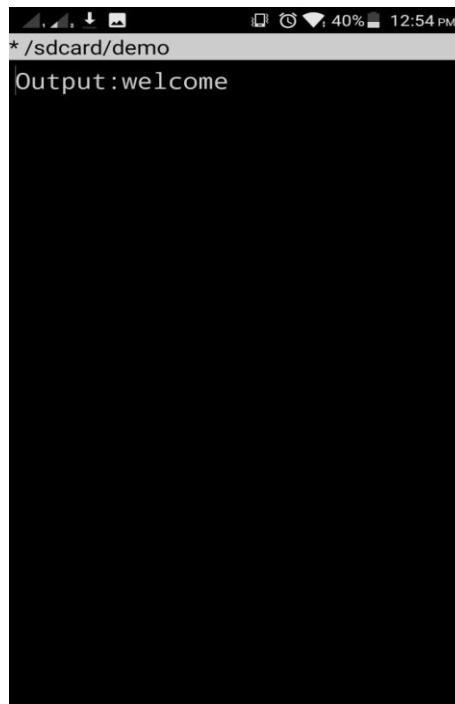
Model 2:-ERROR
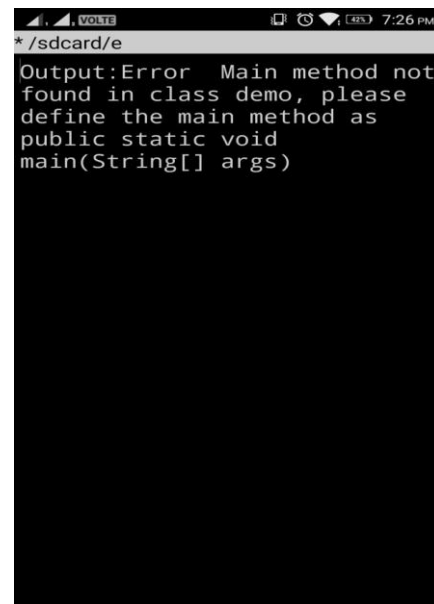
After writing and saving a code when user click on "Compile" it is automatically detected that which language code is this C, C++ or Java. If program contains errors then those errors are displayed.

Model 3:- MORE OPTIONS

After clicking on "More" these options are there. "Email Text" is to send a file i.e. code as text through Email. "Search Text" is to search any text in code. We can send code

As attachment though email. And some other options are available on "Options".

Model 4:- SETTINGS

In "Options" we can choose Font, Font Size, Font Color, Background color, etc.

Model 4:- OUTPUT

After writig and saving a code when user click on "Compile" it is automatically detected that which language code is this C, C++ or Java. If program is correct then appropriate output of program is displayed.

VIII. CONCLUSION

It is the short summary of the application. The virtual Programming application is useful for everyone and can be used anywhere. Main idea to use this application is to make the compilation of the programing in easier way. This application is based on intranet connection. Client-server architecture is used in this application.
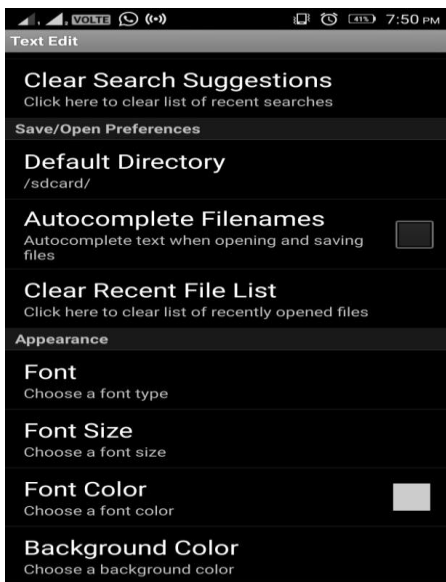
We have shown that, our proposed compiler reduces the run time when contrasted and every other compiler. Our compiler will eliminate out the need to introduce the compilers independently, along these lines it causes for a developer to get the prompt or the utmost helpful device to incorporate the code and eliminate the errors at the centralized server. We concluded our proposed cloud compiler is thought to be the best performer among the different compilers. The application can be reached out to give compilers to C, C++ & JAVA. We could also provide the above project by utilizing API's as a part of the cloud. This serves to make a more interactive method for giving software as a service. Collaborative altering

components can be included so substantial projects can take a shot at the task online and without any difficulty.

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