



Centralized Database for Desktop and Web Applications.

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Abstract:- Many applications such as library software, billing software are used as standalone applications. It means it will work only on single PC or more than one PC which are connected in LAN. But when user is away from his office and he want to use this software through the web browser then it is not possible. So these problems are avoided by using single database for web application and desktop applications

Keyword: Database Oracle, Web Technology, Language: java, Raw Data

I. INTRODUCTION

Day by day digitization is increasing very rapidly in all over the world. Also users of mobiles, PCs and laptops are also increased. Most of the people prefer their business calculations through the use of software.

Software are having 3 types

- A. Standalone applications
- B. Web applications
- C. Android applications

A. STANDALONE APPLICATION

The Standalone applications are traditional software that are installed on each client or single system. It is the platform independent software, so it can be used only single Operating system. For this Application the Internet connection is not required. The data can optionally reside on a Central server, so that the users get synchronized data. For example, in a Lab the 20 system is available and we can install the software. Then we need to install on all 20 systems. In the standalone Application, if in this lab the centralized server is available, then data can be stored in that system, they can be accessed by in 20 System which each of the application will connect to each other. This way, all the 20 systems get up-to-date data on the real time application.

B. WEB APPLICATION

The Web Application are used to run the program on one or Multiple computer and communicate through a network or web server. Actually, web applications are accessed with a web browser and are popular because of this used. It is more easy for the using the browser as a user or client. For the enterprise, the ability to update and maintain web applications without deploying and installing software on potentially thousands of client computer is used. This software is a key reason for their popularity. Web applications are used for web mail or Email, online sales and Shopping, discussion boards, weblogs, online banking and Reservation. Such type of Application. Number of people can access or used same Application at same time. The Web Application is a Nature Distributed Application.

As same as desktop applications, web applications are made up of many parts and often contain minimum a programs, in that some of this Application have user interfaces, and some of it do not require a graphical user interface (GUI). In addition, web applications frequently required an multiple markup or scripting language are used, such as Bootstrap, HTML, CSS, Word press, PHP or Advance java programming language. Also, many applications use only the Java

programming language, which is ideal because of its very large. This Application is suitable for any environment. A web application can be more simple because the pages shows the current date and time or as complex as a set of pages on which you can look up and used for book the most the flight, hotels, and for your next Holiday. for reservation of Flight

1. JAVA TECHNOLOGIES USE IN WEB APPLICATIONS

There are many Java technologies is used for the many Web application which is list in one article, so this one article will be describe only the one most frequently used. The number of technologies are used here can appear for overwhelming. Keep in mind that you will not need to use them all over in the world. In fact, a web application of can be consists of nothing more than one page created with the JavaServer Pages (JSP) technology. Java server application can be used for all the creating the web application Sometime you will combine three or multiple technology. There is No matter how many end up using in this application, it is good to know what is available to the application and how you can use each one in the web application.

C. ANDROID APPLICATION

An Android app is a software application which is running on the Android platform or in our Mobile phone. Because the Android platform is used only for the mobile devices, a typically Android app is designed for a smart phone or a tablet PC for running on the Android Operating System. Although an Android app can be available to developers can through the multiple websites, Android app can be upload and publish on the Android Market, an online store dedicated to these applications. In the Android Market the both of free and priced apps are available in the market. Android apps are write in the Java programming language and use Java core library. They are developed through the Android language, it is a machine specially designed for mobile devices and used in Mobile app. Developers can be download the Android software development kit (SDK) from the Android website. The software development kit includes tools, sample code and relevant document for creating Android apps.

No vice developer who can simply want to play around with Android programming can make use of the App User. Using this online application or Android app we can easily Developed the mobile games and android application

II. IMPLEMENTATION

- 1) Application database is a stored on web server. When client will access the application through the web browser then it should connected to database stored on web server.
- 2) Now changes are reflected in database of server. This accessing is required only when user is not in office but he has to access the software. but when he is office then he can access through stand alone application.
- 3) At that time database should be stored on Local machine but accessing it , the changes are
- 4) Reflected in from server database to local database. Also after existing the desktop application
- 5) Same changes are reflected from local database to server database.
- 6) A. synchronization between local database (offline database) and server database (online database) database are done by using symmetricDS

SYMMETRICDS:

SymmetricDS is a software which is used for integration of the server Databases and Client Database into the Centralized it can be easily integrated data so you are focused on the Both application such as the web and standalone application that can be used as multiple industries successfully so in cases we can required the data on any Where for faster then we used the SymmetricDS software for replication of database across local machine and wide area networks or Web application the solution is this software. If the network bandwidth is limited and the connectivity is intermediate. SymmetricDS are used this commercial software can be available from Jump Mind. It can be provide a simple web interface to the configuration, monitoring, and troubleshooting. JumpMind software can provides technical support, and maintenance, fixing bugs into the software

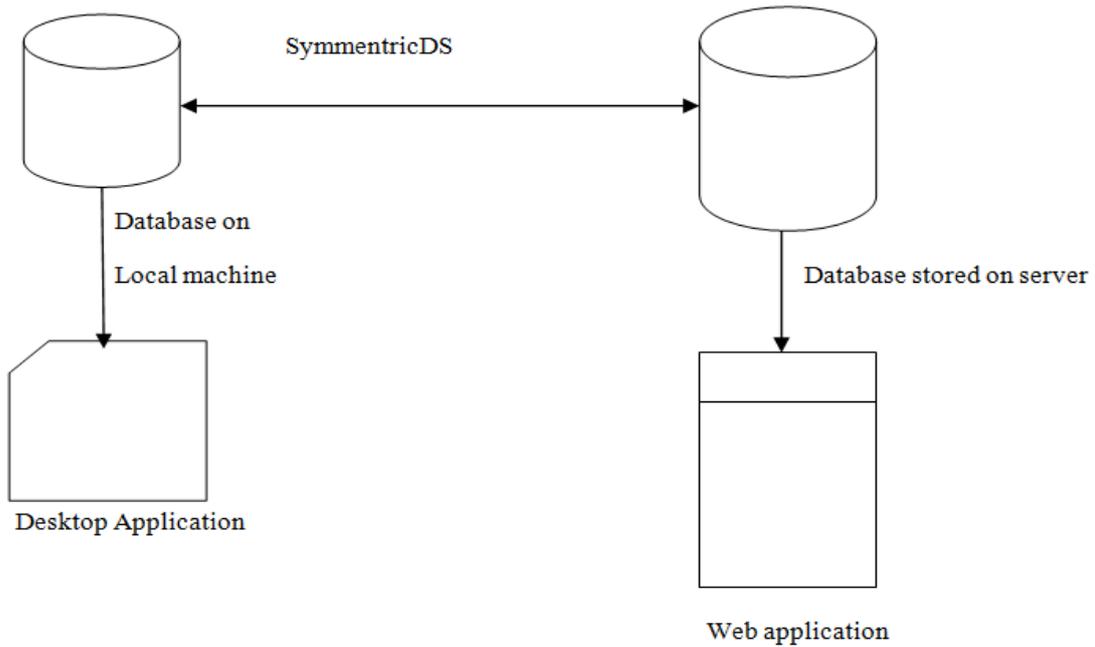


Fig: synchrosation between local database and server database

IV. CONCLUSION

Finally it can be said that by using this software preparing the monthly bill is more easy and error free. This software is user friendly & protected which provide multidimensional functions. The demand of billing system can be fulfilled with the help of this software.

V.REFERANCE

1. <https://www.w3schools.com/>
2. <https://www.javatpoint.com/example-to-connect-to-the-oracle-database>
3. Java The Complete Reference Author by:-Herbert Schildt