The role of ActiveX in Tamil Computing

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Abstract :
Exploring the possibility of implementing Tamil based ActiveX controls and components technology for promoting Desktop and distributed application development in Tamil

Introduction :

In Tamil Computing world the availability of business packages in Tamil is not fre- quent. As they are not designed like other lingual tools. This is due to a very severe reason that the Tamil computing professionals are not equipped well or under equipped with the concept of Management Information System (MIS) and International Accounting Stan- dards. And also the MIS based IT professionals are unequipped with lingual interface. Due to this technical gap only the aforesaid scenario arise out.

When one thinks about developing a MIS application like Accounting, Inventory, Payroll and Point of Sale (POS) management in Tamil then s/he has to solve two problem set.
1. The normal flow of any MIS application
2. The flow for lingual interface.

In this context this paper explore the possibility of implementing the ActiveX controls and components philosophy, which is the major breakthrough concept from MicroSoft for their desktop and distributed application development. The ActiveX tech-frame is basically sub segregated as follows
1. An ActiveX Exe
2. An ActiveX dll
3. An ActiveX control.
Other than the third are ActiveX components. These components can be used for designing Tamil interface for web services.

Internally an ActiveX control behaves like a dll or a library routine and no additional resource exploitation is witnessed. The major difference between a dll and an ActiveX control is the later has a visual component within it. And in case of a dll the calling conven- tions are differential in various compiler and needs a versatile command. But in case of ActiveX control its simple like drag and drop.

The proposed ActiveX control/component is a text control with database support to all database engines. Using this tool in the desired application at design time one can input Tamil data in any kind of prescribed keyboard layouts and in any standardized encoding systems and can store the data in any database format or in any file formats as desired.
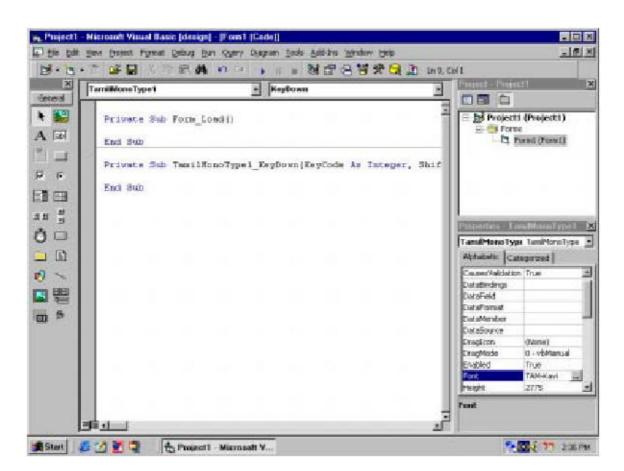
Using the ActiveX control one can very easily design the desired package as such he designs it in English language. Because the second problem factor i.e.., the flow for lingual interface will be minimized or even nullified.

The functional areas where we can include ActiveX are called containers. This may be web browser which supports COM/DCOM or .net. A VB form or a Delphi form or a VC++ dialog and even some office automation packages like MS-Office.

As listed above all sophisticated front-end development packages can handle these ActiveX controls, one can design any kind of MIS applications without any difficulties. Next to this vital reason the role of ActiveX in web also can©t be underestimated. In the new significant .net environment also the role of ActiveX is primary.

To sum up, by implementing the ActiveX phenomena in application development and web development areas we can minimize or even nullify the lingual interface recursive pro- gram flow and can achieve greater productivity with minimal efforts.

The Screen shots

This is the design time environment. Where You can find not even a single line of code.

The output where you can find the full fledged editing featured application.

Various Tamil ActiveX Text Edit controls are available as a freeware at
www.geocities.com/ultimatedgl