Abstract

The Integrated Development Environment (IDE) based tools are popular and made the task of project development easier and comparably faster. These tools help developer to design Graphical User Interface (GUI) just by using Drag and Drop (DND) tool box with specification of the properties. Some of these tools are .NET framework, Windows Builder, etc to design the forms. But, none of these utilities embed "Business Logic" (BL) automatically in code. In routine development process it becomes very time consuming to do the repeated task of coding for same events. There are certain vendor specific tools like Oracle Application Express (OAE) from ORACLE and some similar tools from IBM mainframe to design the product and do analysis and reporting but these tools are too much vendor specific and strictly
need the proprietary DB to develop the project. For instance, OAE needs strictly ORACLE as a backend for its development. Our tool - "Rapid Project Builder" (RPB) is used to avoid time consumed for coding the same business logic repeatedly. The tool will also perform Automatic Code Generation (ACG) in specific language of developer's requirement. The developer can design the application's frontend GUI using RBP with DND along with the specification of form and fields. After adding control like add, delete, search or modify buttons to the application, RPB adds the BL automatically to these controls along with complete language specific code. The automatic generation of backend DBMS is done with the help of specification given as the properties in the form design which is stored as XML semantics.

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