Implementing VB.NET Interface for some Physics Models

Abstract

VB.NET interface is a powerful abstraction tool that prevents post-implementation changes to design from breaking down application codes. Microcomputers are indispensable tools in research, teaching and learning of Physics; their use in Nigeria is receiving serious attention. This paper discusses the usefulness and pitfalls of microcomputers to Physics education. Eight interfaces with varying members were defined in a class library. Through another class library some of the interfaces were carefully implemented for projectiles and eleven magnetism models. Two client applications, JectileSoft and MagneticSoft were developed and integrated to form PHYJectMagSoft package. The workings to all the projectile and magnetism problems are generated at every stage of evaluation. All the functions, methods and properties work to specifications. Our attractive applications could be utilized unassisted with little knowledge of the computer, since common windows features, as well as access and shortcut keys are included. Software developers will find our interfaces useful in their work. Besides, lecturers and learners will find the accurate, reliable and flexible packages beneficial in teaching-learning environment.
References

- MSDN Documentation

Index Terms

Computer Science
Programming Languages

Keywords

Interface Magnetism Microcomputers Projectile