

.NET FRAMEWORK

.NET Framework introduction

- ◎ .NET Framework 1.x
 - CLR
- ◎ .NET Framework 2.0
 - Partial Classes, Generics support, 64 bit support
- ◎ .NET Framework 3.0
 - Windows Presentation Foundation(WPF)
 - Windows Communication Foundation (WCF)

.NET currently

- Microsoft Visual Basic, C#, J# and more.
- Over 13,000 classes
- Language Integrated Query
 - LINQ to SQL
 - LINQ to objects
 - LINQ to XML
- Anonymous Types and Lambda expressions

Programming using Security Libraries in .NET

- Cryptography
 - TripleDES
 - AES (128, 196, 256)
 - RSA
 - SHA-(1,2) MD5
- XML
 - XML encryption

Applying security features to applications

- ◉ Web Application Security
 - ASP.NET validations
 - Web.Config Security
 - HTML encoding
 - Authentication
- ◉ SQL Server Database Security Features
 - Authentication modes: Windows vs SQL authentication
 - Store Procedures
 - Encryption

Sample ASP.NET Application

- ◉ Role based access
- ◉ Validation
- ◉ Encoding
- ◉ Encryption
- ◉ HTML Injection

Questions?

