

# MOBILE APPLICATION LANGUAGES AND FRAMEWORK— XML, Java, JME, Python and DotNet

## Lesson 06

### Microsoft DotNet Framework

# FRAMEWORK

- An abstraction in which software have generic functionalities
- Features of ease of using complex technologies
- Integrating the collections of discrete objects/components

# FRAMEWORK

- Integrates Classes, interfaces, methods, constructors, properties, collections, cross-language inheritance, events and exception handling, SQL, and plug-ins
- Interactive creation of user interface (GUI or VUI)

# FRAMEWORK

- Support for validation of data
- Binding of data and functions
- Cloud services (in new versions)

# DOTNET FRAMEWORK

- A programming platform, which includes support to Web-based applications *ASP.NET* and XML-based Web services, programming of servers for mobiles and handhelds
- Provides object-oriented multilingual classes
- Enables integration of codes

# DOTNET FRAMEWORK

- Virtualization of servers, and service-oriented architectures (SOAs)
- Visual Studio provides .NET framework for developing applications
- Gives a secure and robust integrated development environment (IDE)

# VISUAL STUDIO .NET FRAMEWORK

- C#, Visual Basic, C++, Jscript, and J#
- Common language specifications
- Windows Forms, ASP.NET Web Forms, Web services, and Mobile Internet toolkit
- ADO.NET for database access and transactions, XML for presentations

# VISUAL STUDIO .NET FRAMEWORK

- Communication between and within applications, APIs, and clients and servers
- Base class library
- Common intermediate language (CIL) for run-time
- OS



# .NET

- Multi-lingual features Third parties provide additional languages support; for example, for Python, COBOL, Perl, APL, and SmallTalk.

# .NET

- An extensive system library
- System.WindowsForms, System.Data (includes oledb, SQLClient, SQLTypeData, System.XML (includes XPath, Serialization, and XSLT), and System.Web.

# SAMPLE CODE 15.5

- Design a Windows form 'formTime' in order to display current time. The hour, minute, and AM/FM. Hour and minute values are separated by colon sign

# SUMMARY

- A programming platform, which includes support to Web-based applications *ASP.NET* and XML-based Web services, programming of servers for mobiles and handhelds, Provides object-oriented multilingual classes and Enables integration of codes
- CIL for run-time

# DOTNET LEARNING RESOURCES LIST

- <https://www.linkedin.com/learning/topics/dot-net>

# End of Lesson 06

## Microsoft DotNet Framework