



AB Suite—An Overview

Objective

By the end of this module, you'll be able to—

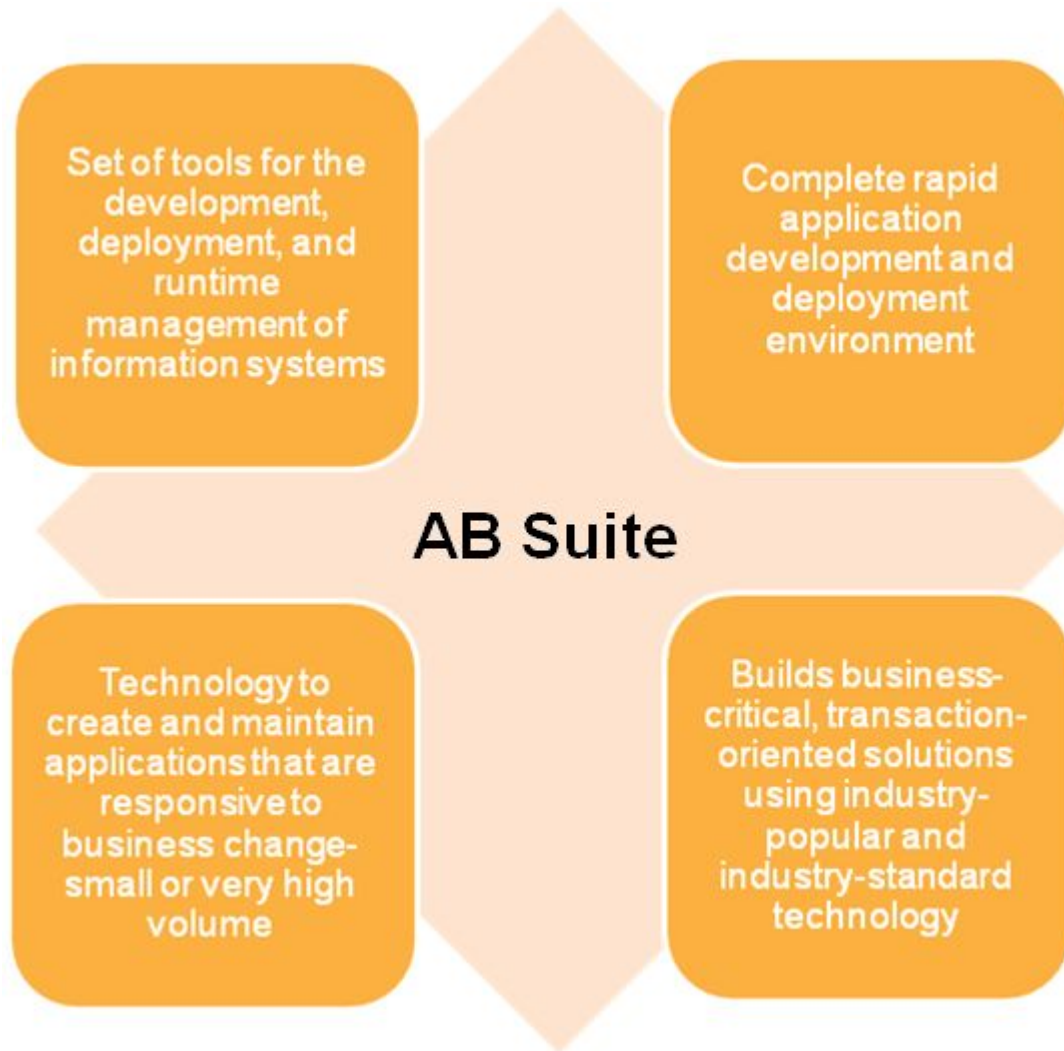
- Understand the tasks that can be performed using AB Suite

Module Topics

- Overview of AB Suite
 - AB Suite—An Introduction
- Components of AB Suite
 - Development Environment
 - AB Suite Runtime
 - Component Enabler
- New Features and Strengths of AB Suite
 - New Features of AB Suite
 - Strengths of AB Suite

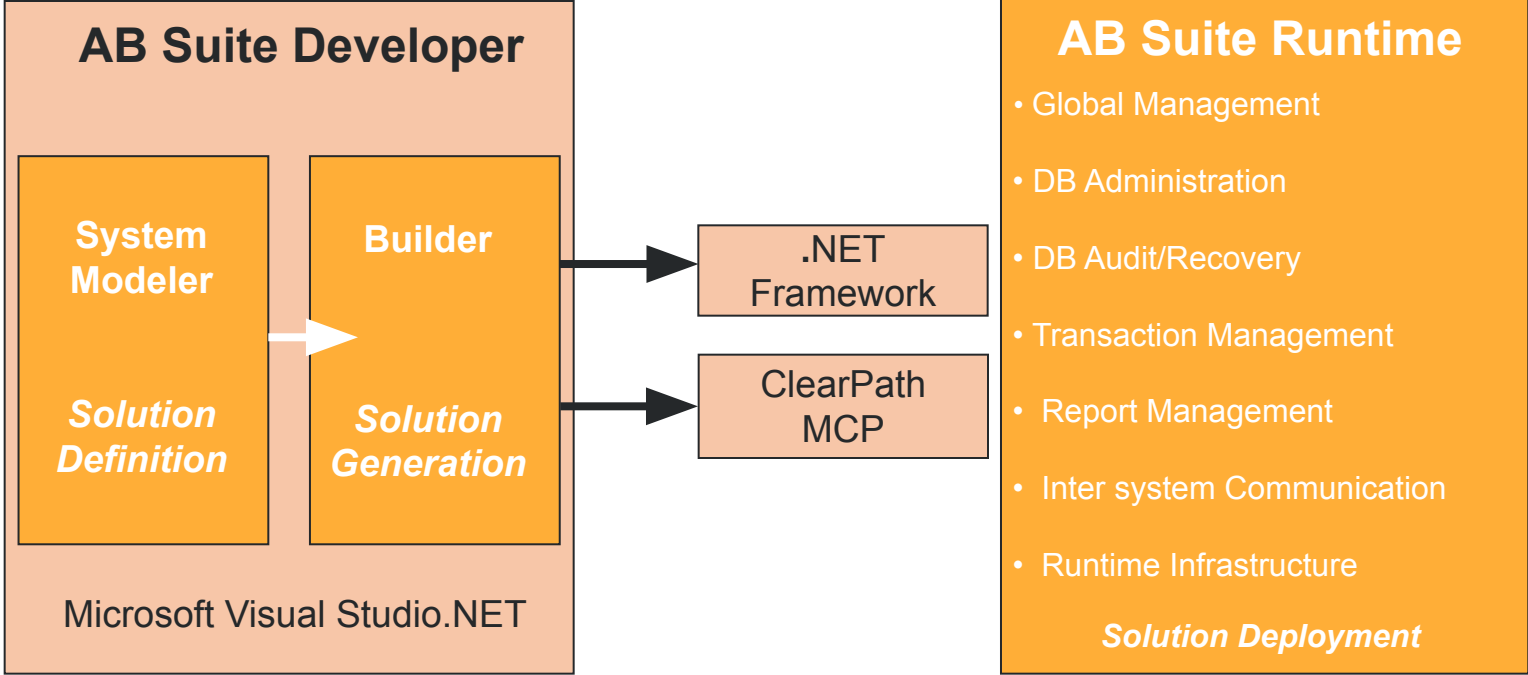
Overview of AB Suite

AB Suite—An Introduction



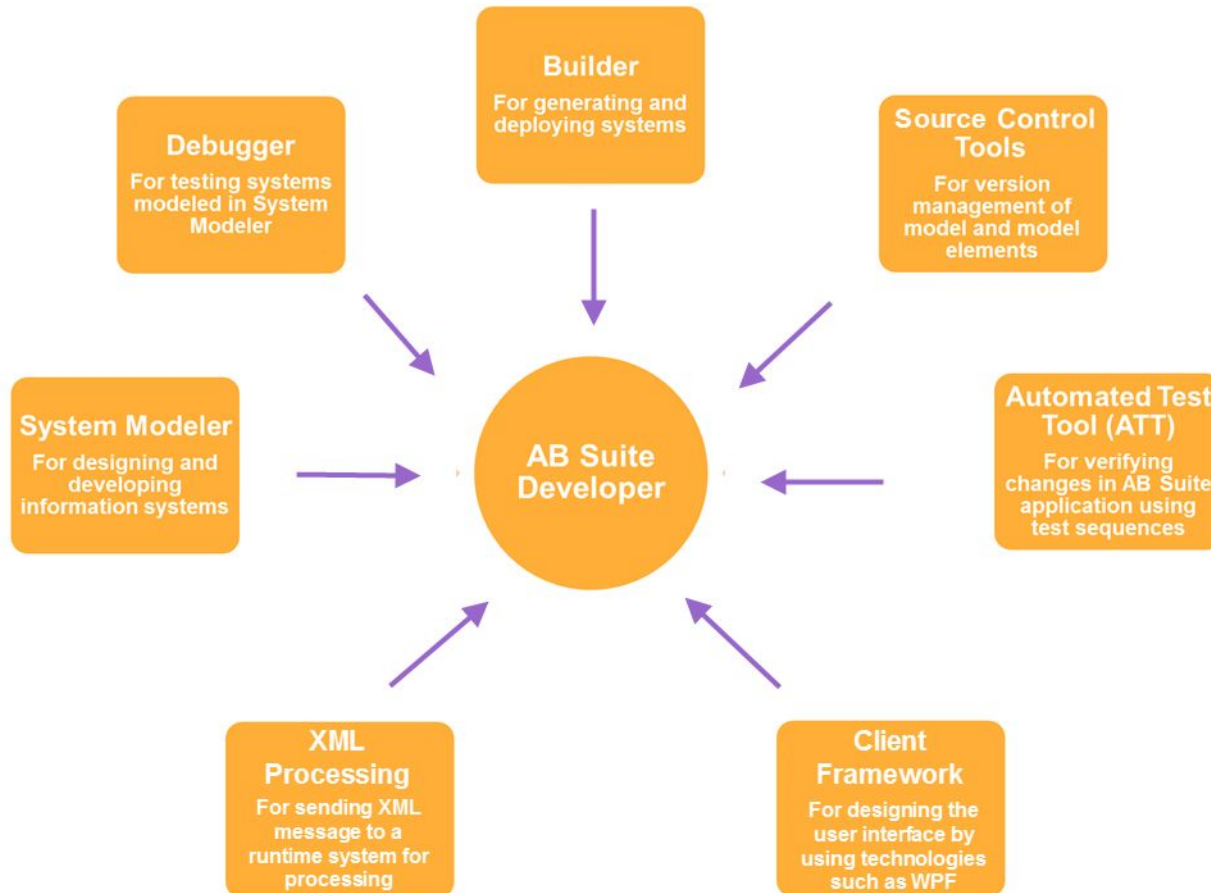
Components of AB Suite

Components of AB Suite



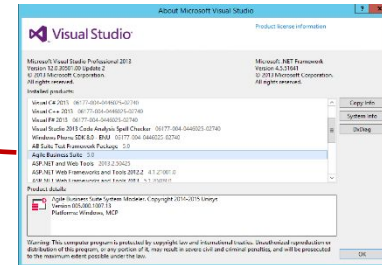
Development Environment (Developer)

Developer operates as a plug-in to Microsoft Visual Studio



System Modeler

- AB Suite System Modeler:
 - Functions as a "plug-in" to Visual Studio
 - Provides a model driven and OO development environment
 - Provides stereotypes for classes to implement processing behavior
- What can you do in System Modeler?



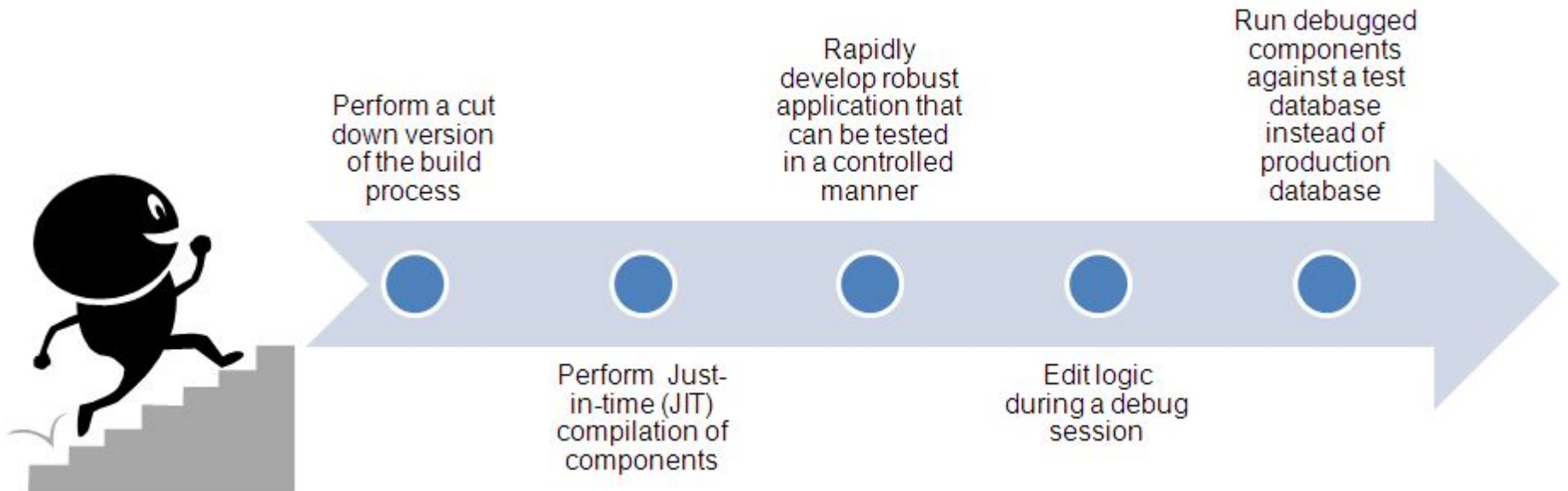
Define classes to represent logical entities

Define a logical representation of business using object-oriented development techniques

Add logic to a class using the high-level scripting language, LDL+

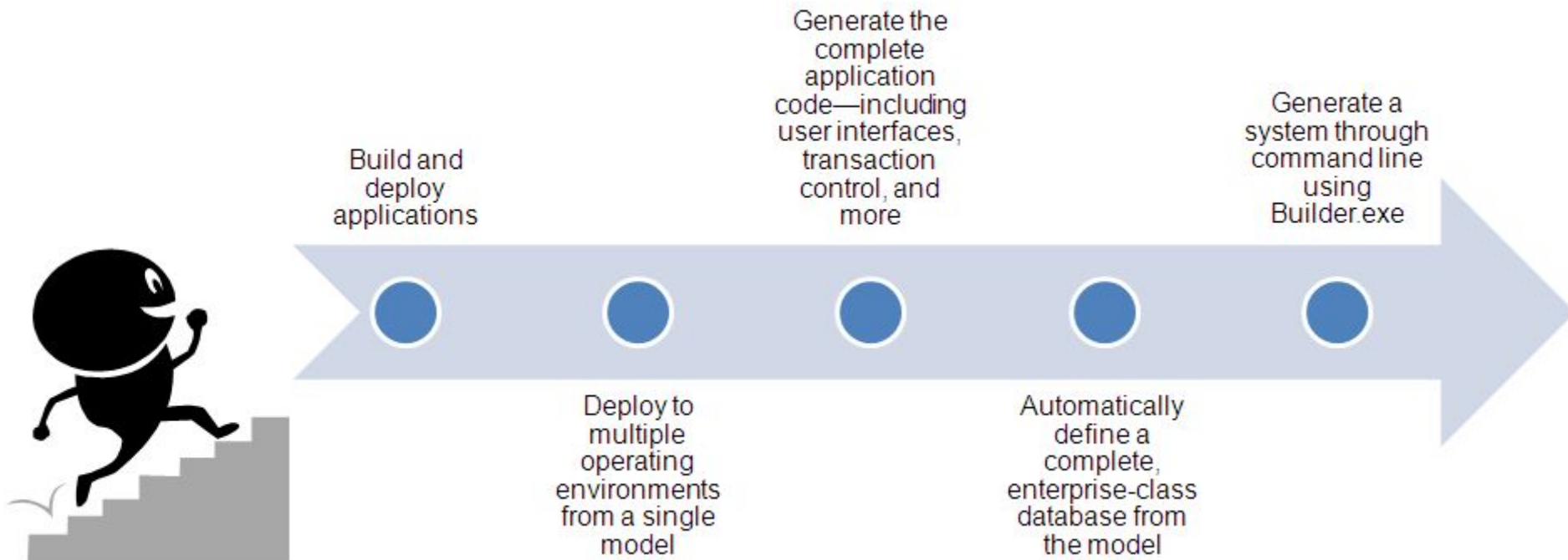
Debugger

- AB Suite Debugger runs within the Visual Studio IDE
- What can you do in Debugger?



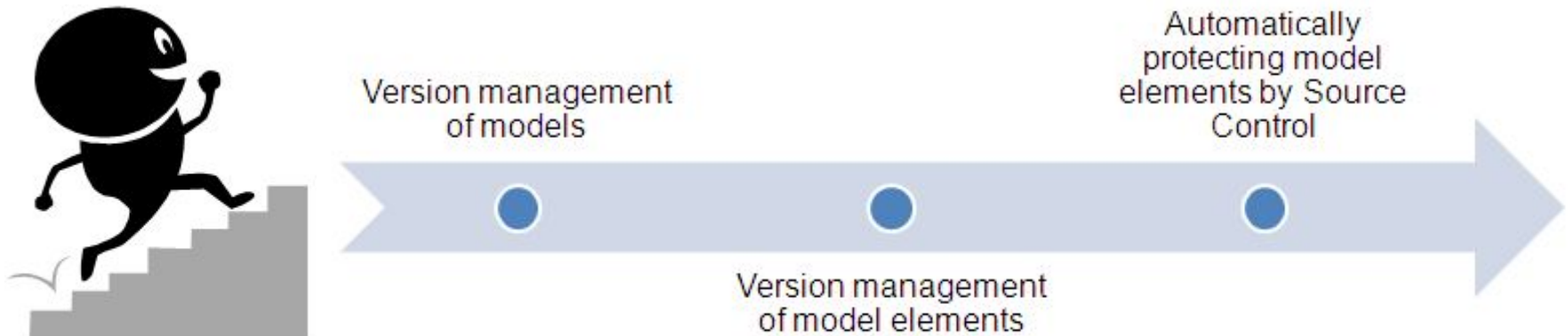
Builder

- Builder generates the database definition language, the program source code, and other files necessary to deploy the system
- What can you do in Builder?



Source Control

- The Source Control feature in AB Suite provides source control of all versionable elements in the AB Suite model
- Source Control tools such as Team Foundation server (TFS) maintain revisions of files
- The hub of source control is the Source Control Bank
- What can you use Source Control for?



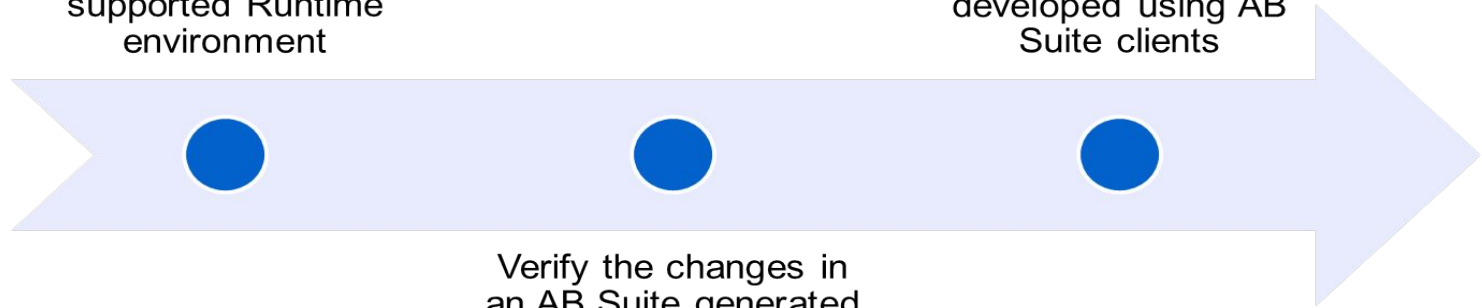
Automated Test Tool (ATT)

- ATT is integrated within the AB Suite Developer
- What can you use ATT for?

Record, play back,
and edit test
sequences for the AB
Suite applications
deployed on any
supported Runtime
environment

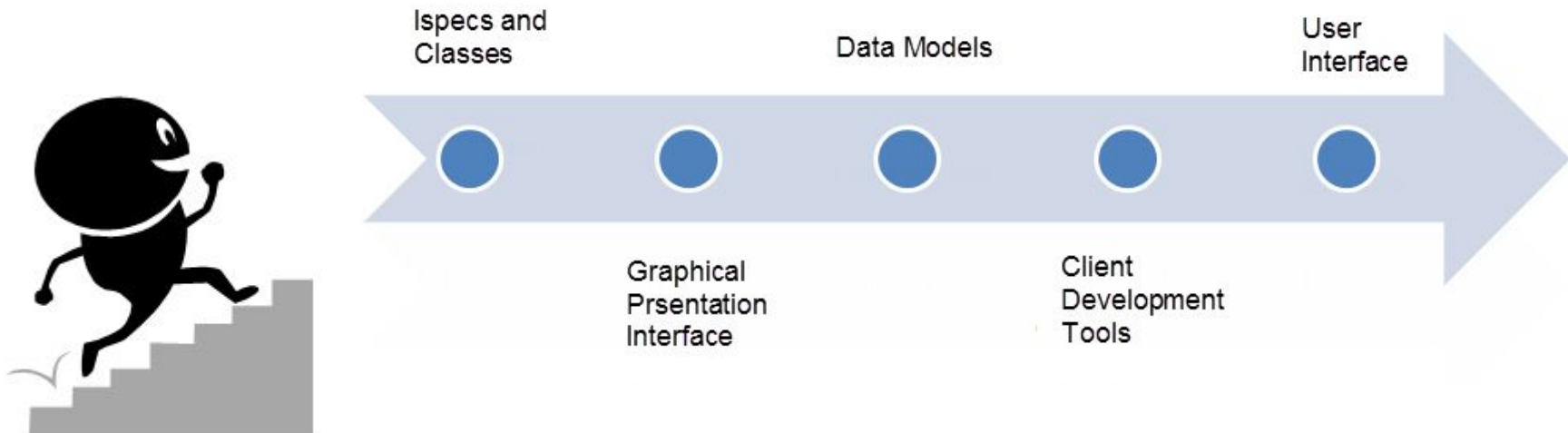
Record test
sequences for AB
Suite applications
having user interfaces
developed using AB
Suite clients

Verify the changes in
an AB Suite generated
application using
prepared test
sequences



Client Framework

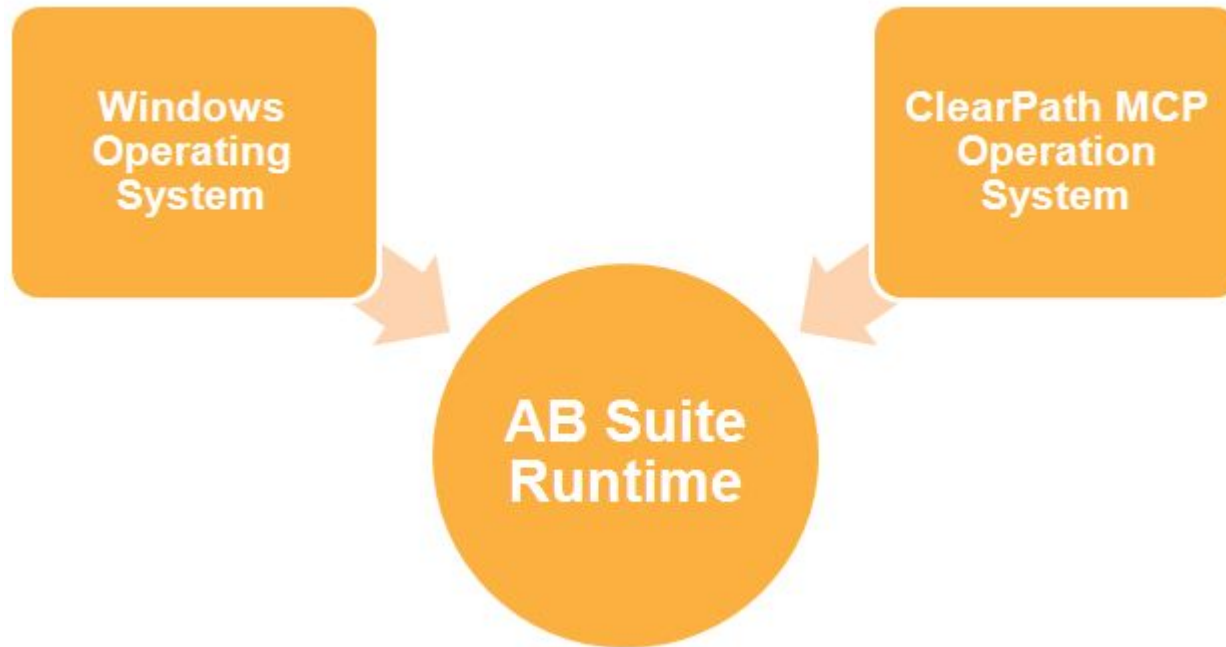
- AB Suite Client Framework is an integrated environment for developing advanced user interfaces based on the Microsoft .NET Framework
- AB Suite Client Framework generates standard components for client applications
- AB Suite Client Framework enables the use of popular client development tools such as Windows Presentation Foundation (WPF)



XML Processing

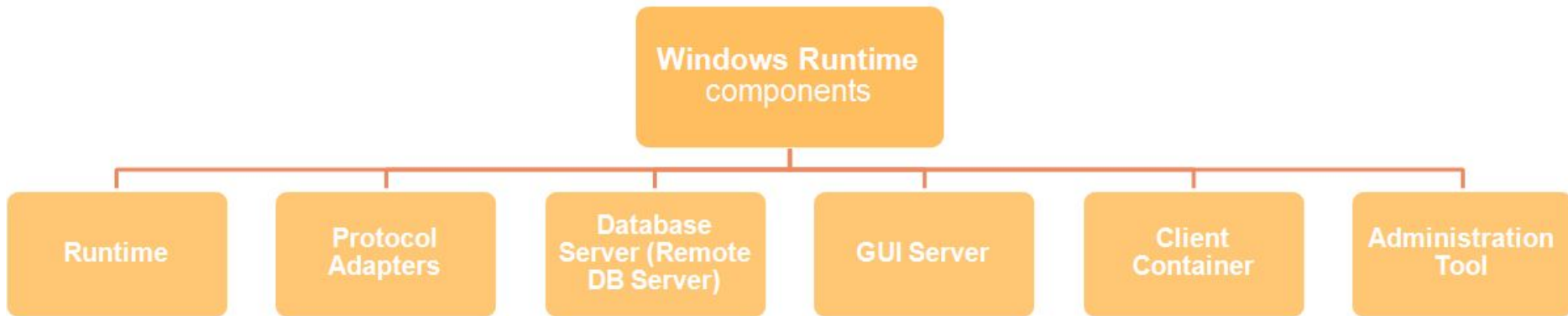
- In AB Suite, the XML processing capability allows a runtime system to act as a message broker for XML
- XML messages are input from any source. These XML messages would typically come from an external system
- A client application submits XML messages to the runtime system via an Application Programmatic Interface (API)
- Each submitted XML message is parsed, validated, objects are populated, and any user-defined method logic is executed
- A response that indicates the message processing completion status is returned to the client application

AB Suite Runtime



AB Suite Runtime provides an infrastructure to run the deployed AB Suite components

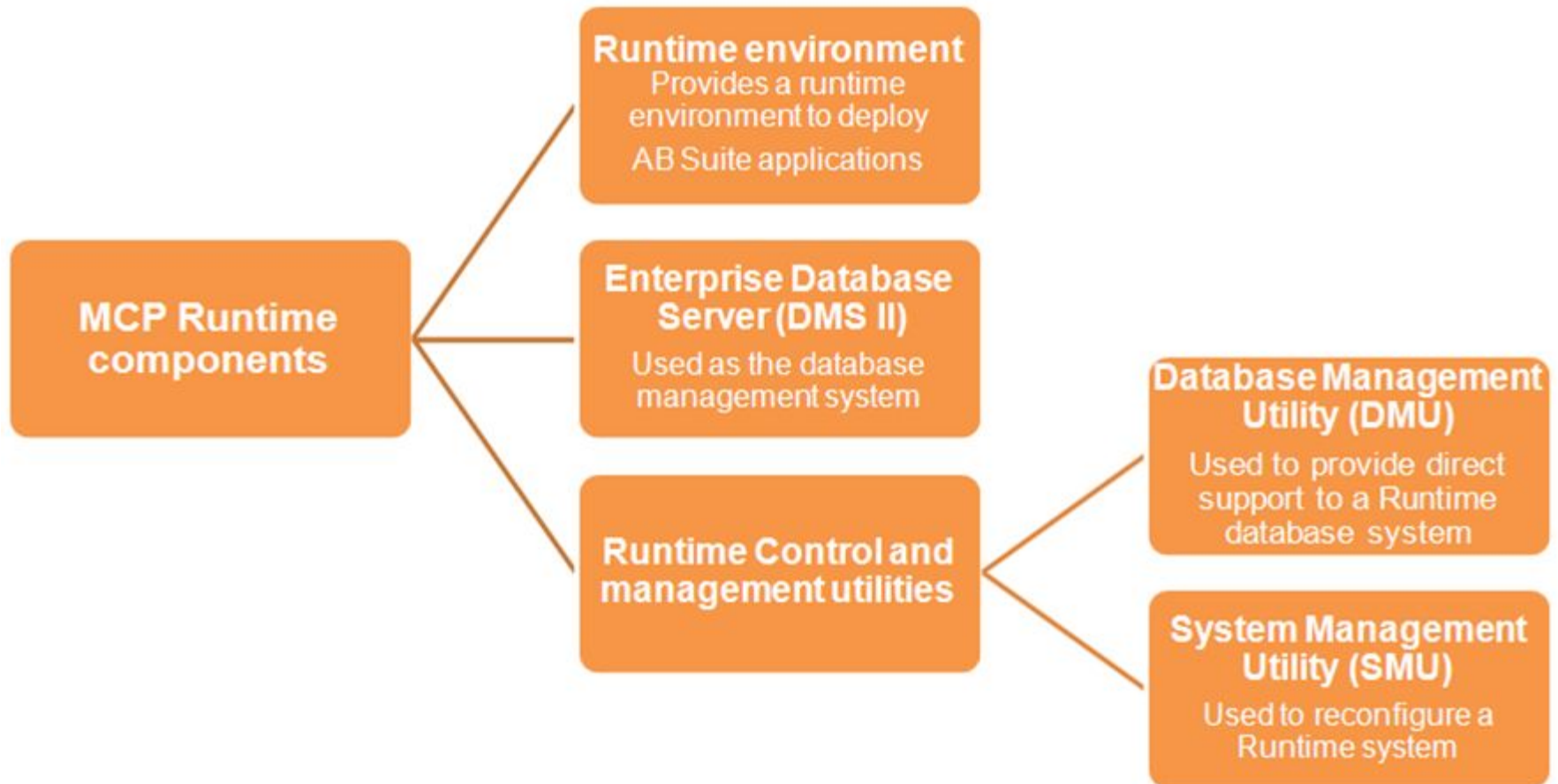
Windows Runtime



Windows Runtime Administration Tool

- Windows Runtime Administration tool is a snap-in to the Microsoft Management Console
- Windows Runtime Administration tool is used to:
 - Deploy AB Suite applications for the Windows operating system
 - Create and administer test databases for debugging applications
 - Configure and manage the runtime environment

MCP Runtime



Component Enabler

- Component Enabler provides standard component interfaces to AB Suite applications, opening them up to modern client technologies
- The basic elements of Component Enabler are:
 - Presentation Client
 - Component Enabler Generate Environment
 - Component Enabler Runtime Environment

New Features and Strengths of AB Suite

AB Suite New Features

- AB Suite Client Framework can be used to design advanced user interfaces for AB Suite applications
- AB Suite XML Processing allows the runtime system to act as a message broker for XML messages
- The new logic editor provides features such as dynamic validation, auto completion, and code definition and peek definition

AB Suite Strengths

- Model-based and model-driven architecture
- Object-oriented development environment
- Modern development environment with features that boost productivity and deliver high-quality applications faster
- Unprecedented flexibility, modern, and innovative development capabilities
- Ability to deploy individual components of a single application to multiple platforms
- Reuse of existing application assets
- Built-in diagramming tool to enable you to visualize your application, or parts of it
- Single development environment that can target multiple deployment platform options

Summary

In this module, you have learned about:

- The tasks that can be performed using AB Suite