



Introduction to



ENTERPRISE ARCHITECT

Department of Software

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- Uml **unified modeling language** is a general purpose developmental language in the field of software engineering.

هي لغة تستخدم بشكل عام في عملية تطوير هندسة البرمجيات.

- Its intended to provide a standard way to visualize the design of the system and it's a rich language to model software solution ,application structures and business process.

تهدف هذه اللغة الى توفير طرق قياسية لنماذج تصاميم الانظمه من اجل توفير فهم افضل لعمليات التغيير والصيانة والتوثيق لمعلومات النظام.

وتعتبر لغة uml لغة غنية جدا في نماذج الحلول التي يحتاجها software و هيكلية التطبيقات وكذلك في business process

Uml diagrams

- There are two main type of uml diagram:
 - ✓ Structural diagram

Emphasize the static structure of the system using object ,attributes, operations and relationships it's includes class diagram, package diagram ,component diagram

المخططات من هذا النوع تؤكد على الهيكل الثابت للنظام عن طريق استخدام الكيانات و العلاقات و الخصائص و العمليات

✓ Behavioral diagrams

- Emphasize the dynamic behavior of the system by showing collaboration among object and changes to the internal state of objects includes
 - sequence diagram
 - activity diagram
 - use case diagram

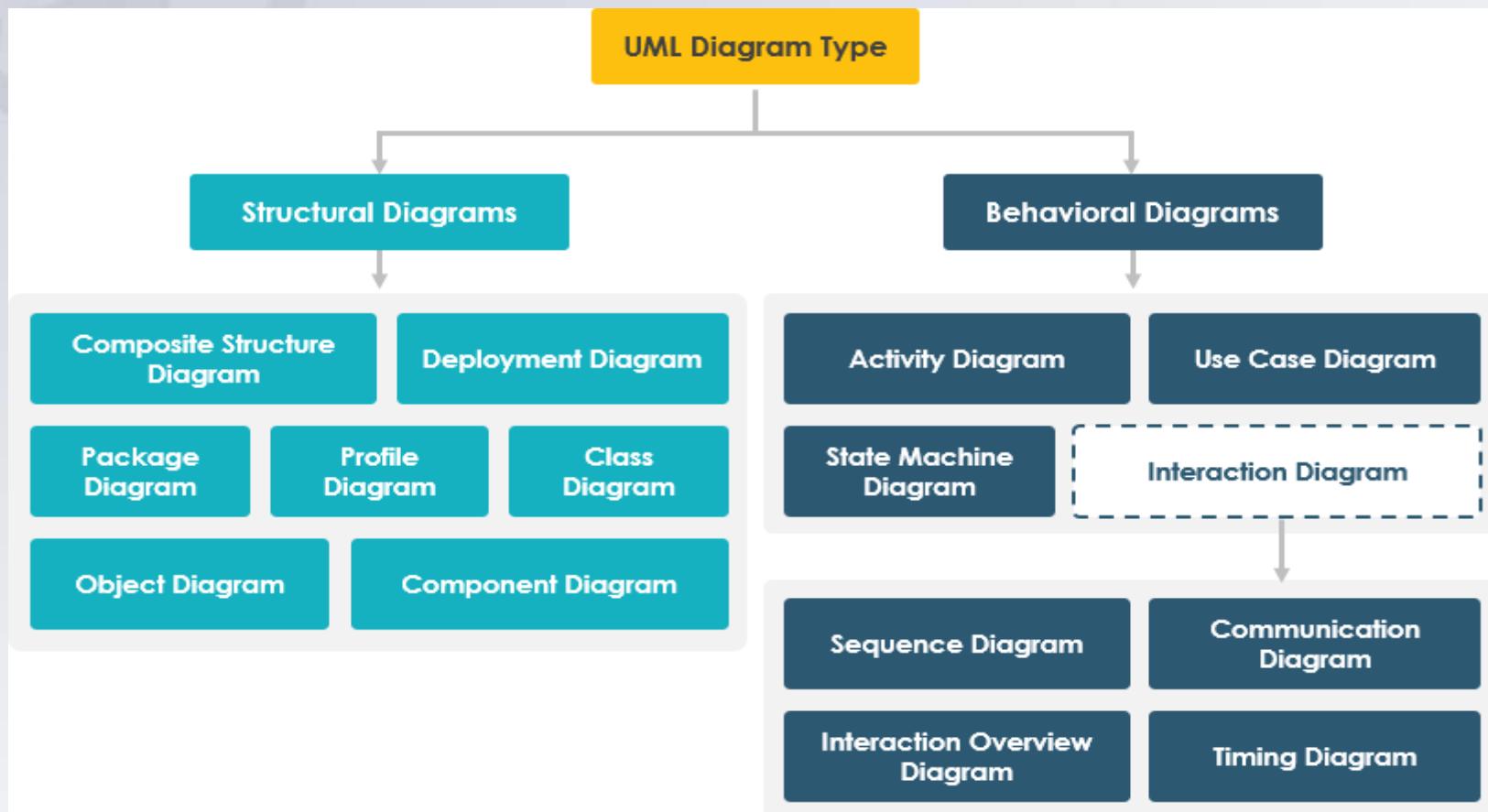
المخططات من هذا النوع تؤكد على السلوك الديناميكي للنظام عن طريق اظهار التعاون بين object

هناك بعض المخططات لا توجد ضمن النوعان السابقان بل توجد ضمن

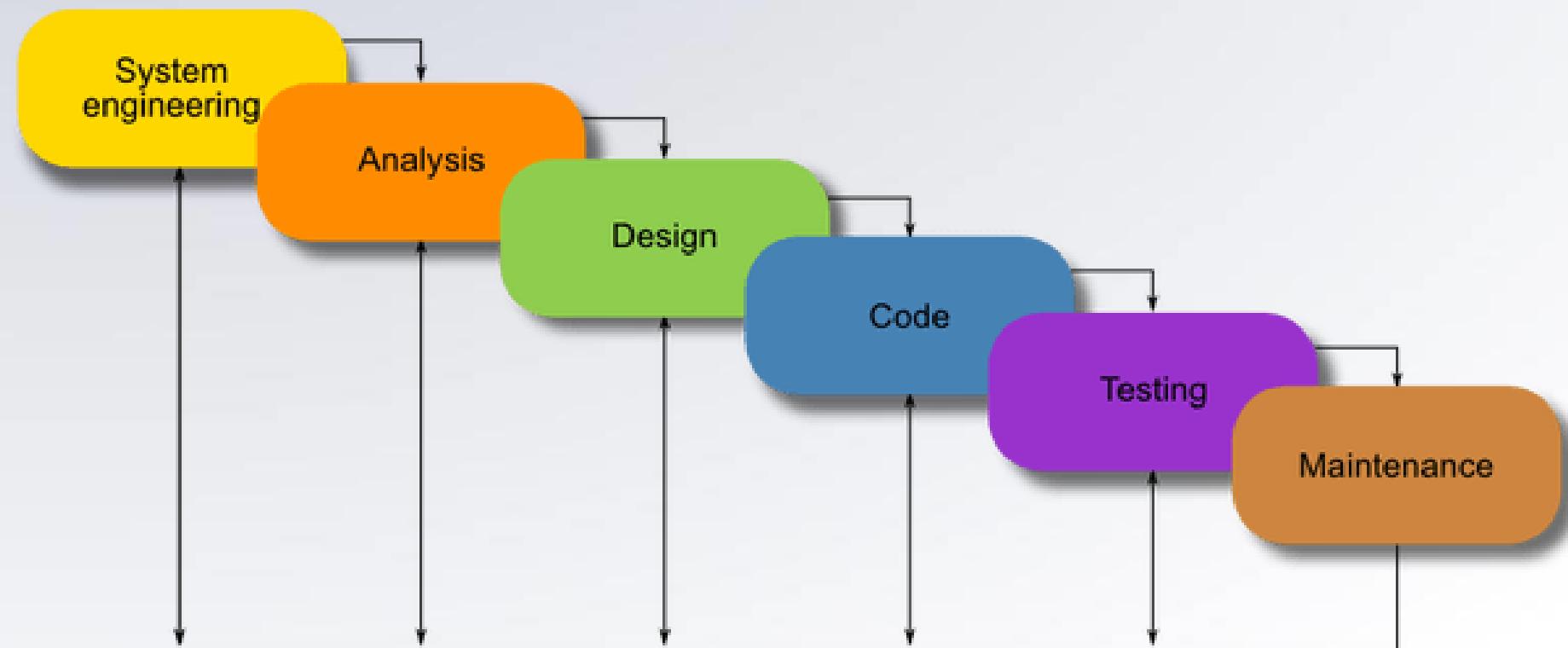
✓ Extended

- requirement diagram
- Business modeling
- User interface

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Software process model



What Is Enterprise Architect?

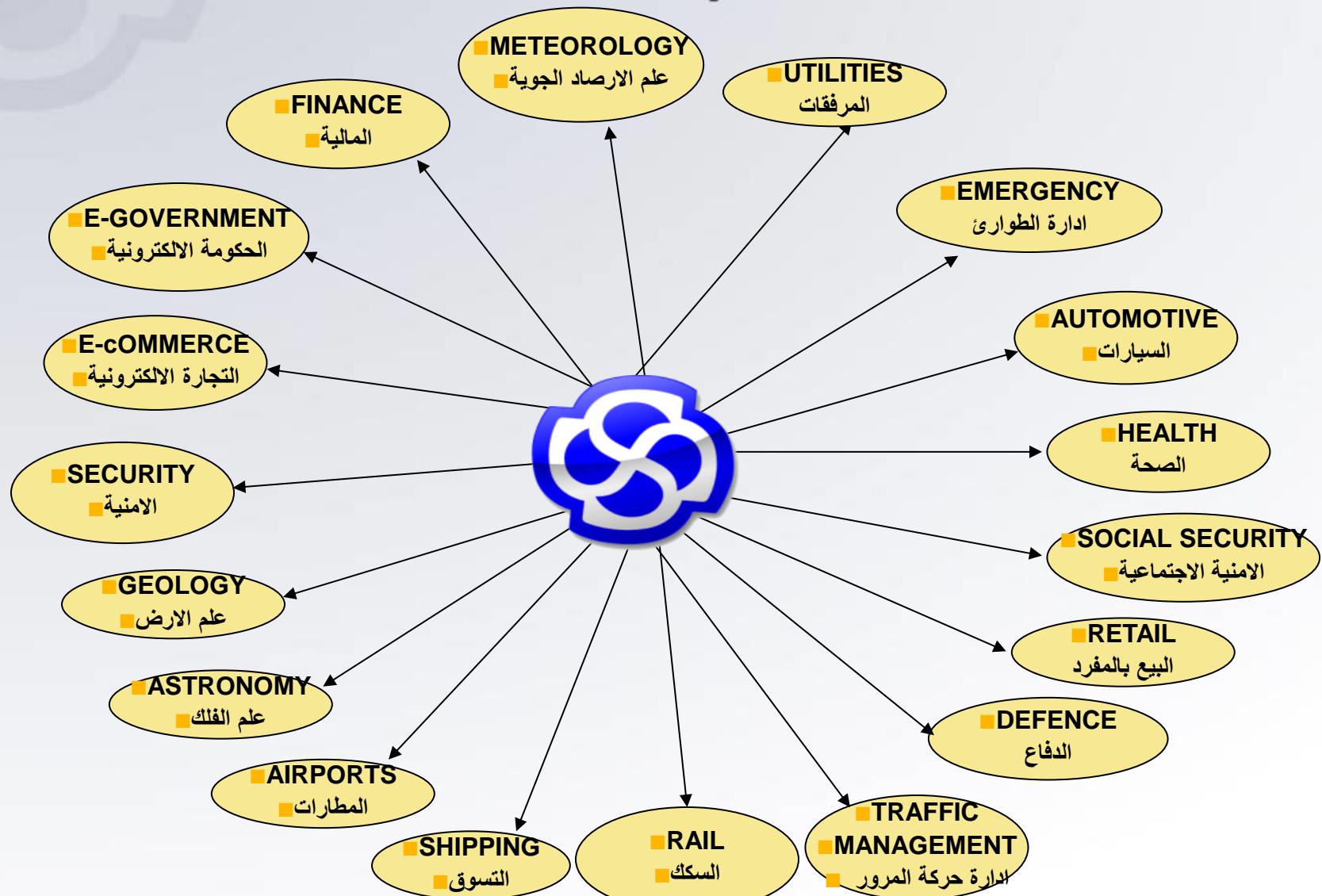
- A visual modeling and design tool based on the Object Management Group OMG UML.
 - أداة تصميم وتكوين نماذج مرئية
- The platform supports: the design and construction of software systems; modeling business processes; and modeling industry based domains.
 - تدعم المنصة: تصميم وبناء أنظمة البرمجيات ؛ نمذجة العمليات التجارية ؛ ونمذجة المجالات القائمة على الصناعة

- It is used by businesses and organizations to not only model the architecture of their systems, but to process the implementation of these models across the full application development life-cycle.

يتم استخدامه من قبل الشركات والمؤسسات ليس فقط لنماذج بنية أنظمتها ، ولكن لمعالجة تنفيذ هذه النماذج عبر دورة حياة تطوير التطبيقات الكاملة.

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Enterprise consider as
Solution for Every World

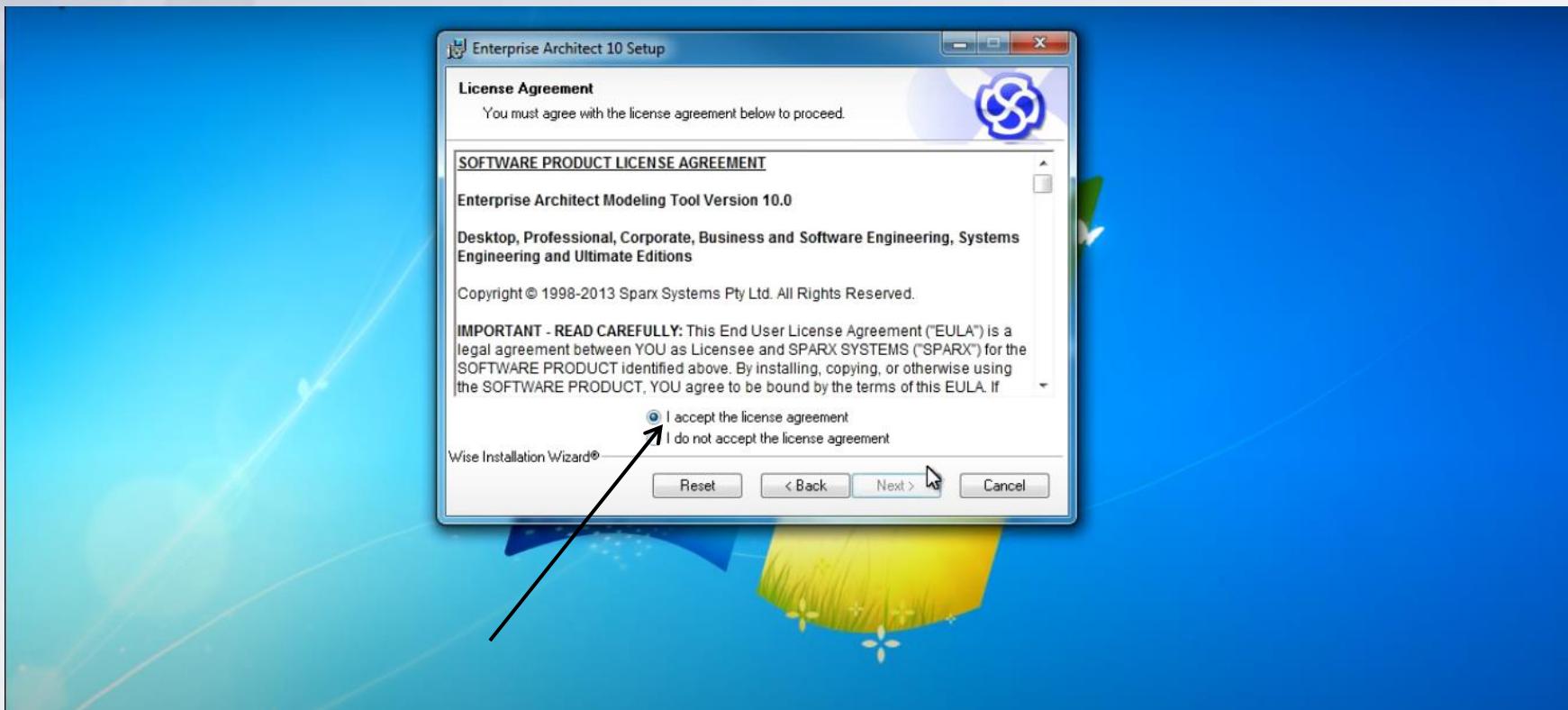


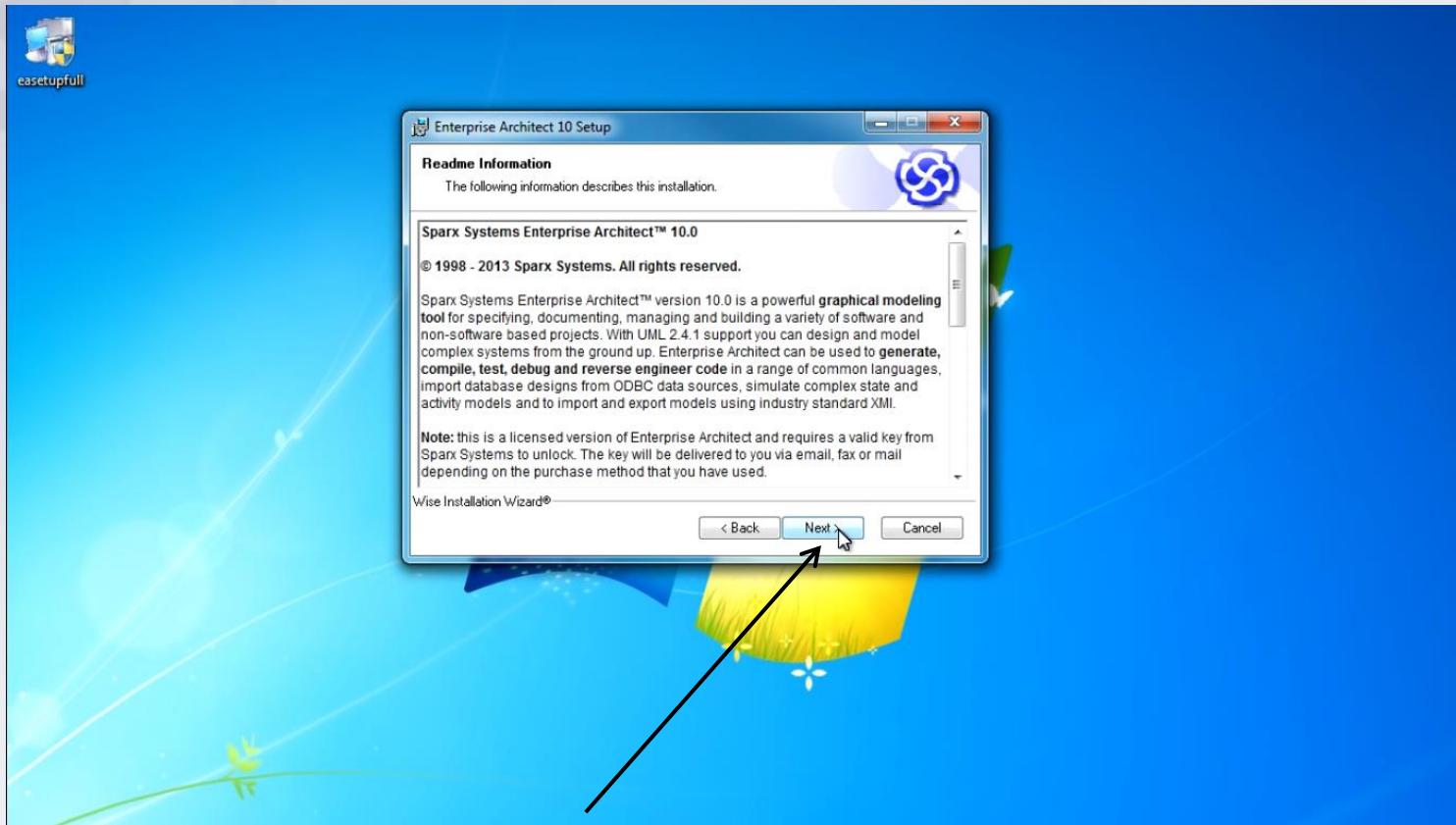
Enterprise diagrams

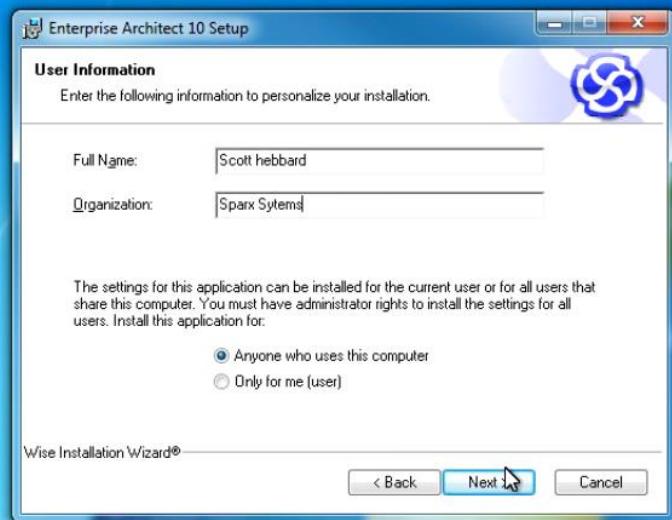
- Requirement diagram.
- Use case diagram.
- Activity diagram.
- Sequence diagram.
- Class diagram.
- User interface diagram.
- Communication diagram.

طريقة تنصيب البرنامج









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No current project - EA Academic

File Edit View Project Diagram Element Tools Add-Ins Settings Window Help

Start Page

Enterprise Architect Version 7.5 Search: ...

Getting Started
Online Resources & Tutorials
Configure Options...

Manage Projects

- Open a Project File...
- Create a New Project...
- Copy a Base Project...
- Connect to Server...

Recent

- swe2
- swe1
- منفذة
- req1
- req
- class
- user

شريط القوائم

مستعرض المخطط

شريط الأدوات

الأدوات والعلاقات الخاصة بالمخطط

Toolbox

More tools...

Custom

- Package
- Requirement
- Issue
- Change
- Screen
- UI Control
- Test Case
- Entity

Rule Flow Relationships

- Control Flow

Common

Layout Palette

Project Browser

Model Views Project Bro... Resources

Notes

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Notes Pan & Zoom Properties

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Getting Started Online Resources & Tutorials Configure Options...

Manage Projects Recent

- Open a Project File...
- Create a New Project... **←**
- Copy a Base Project...
- Connect to Server...

swe2
swe1
ui
req1
req
class
user

فتتح مشروع جديد

Project Browser

Model Views Project Bro... Resources

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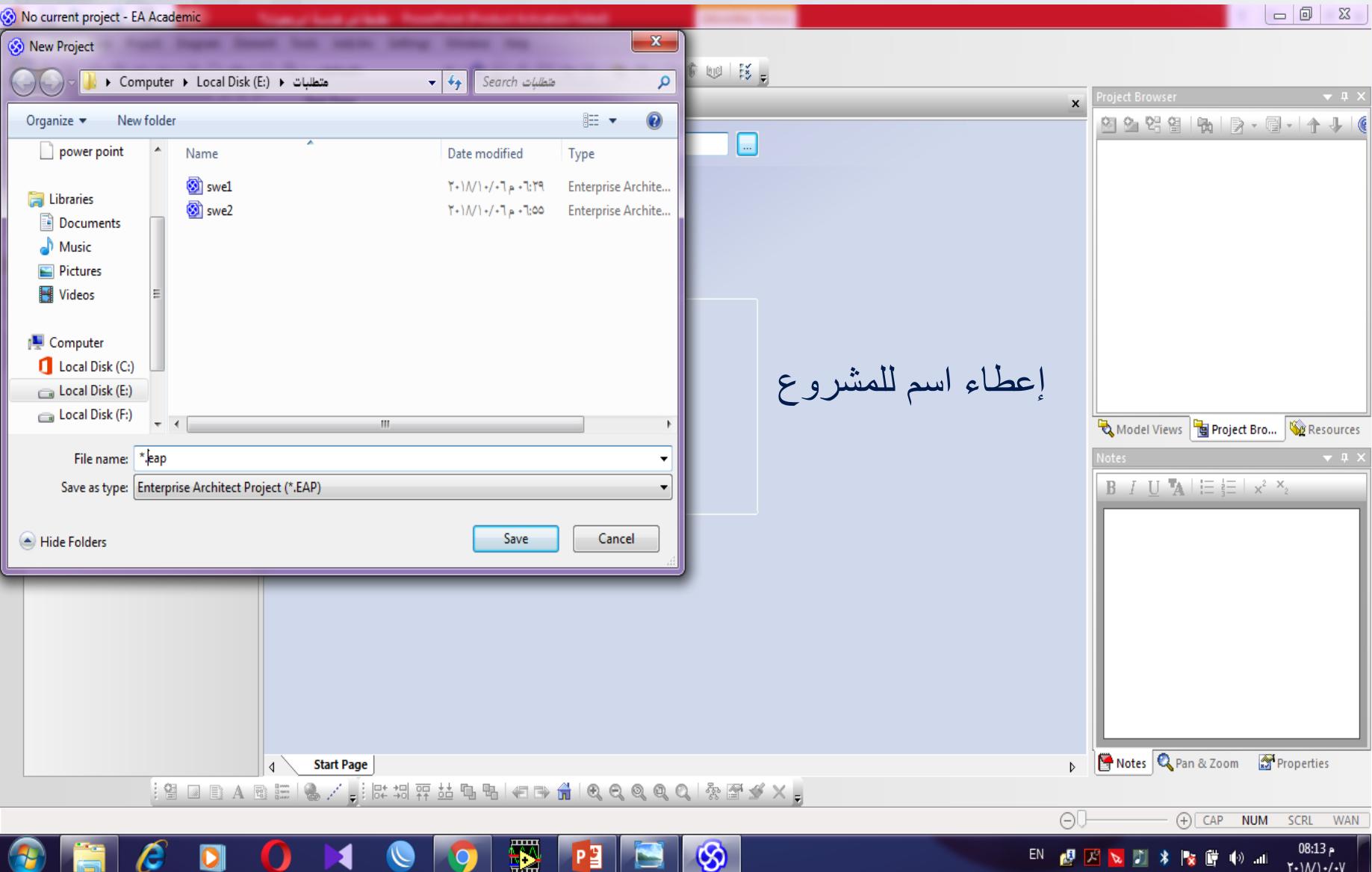
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Toolbox More tools... Start Page Enterprise Architect Version 7.5 Search: ...

Select model(s)

Select model(s) to add to your project Select from: Common

Technology	Name
<default>	<input type="checkbox"/> BPEL Model
ICONIX	<input type="checkbox"/> Business Process
SystemC	<input type="checkbox"/> Requirements
Verilog	<input type="checkbox"/> Use Case
VHDL	<input type="checkbox"/> Domain Model
BRM	<input type="checkbox"/> Class
Business Rule Model	<input type="checkbox"/> Database
	<input type="checkbox"/> Component
	<input type="checkbox"/> Deployment
	<input type="checkbox"/> Testing
	<input type="checkbox"/> Maintenance
	<input type="checkbox"/> Project Management
	<input type="checkbox"/> User Interface

All None OK Cancel Help

Project Browser Model

Model Views Project Bro... Resources

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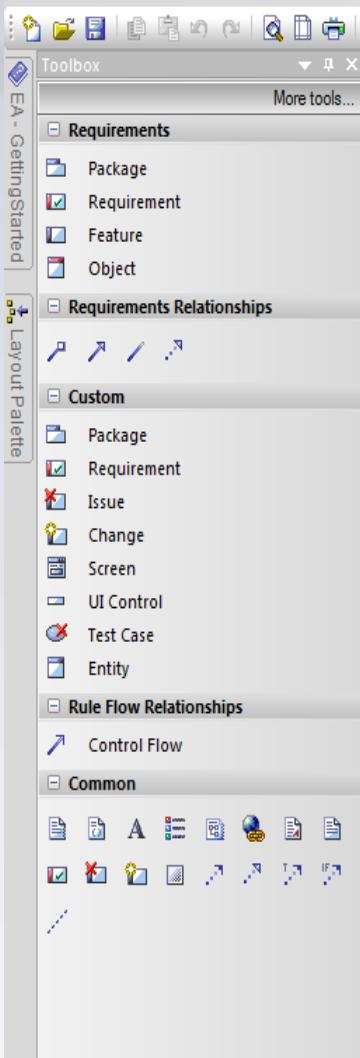
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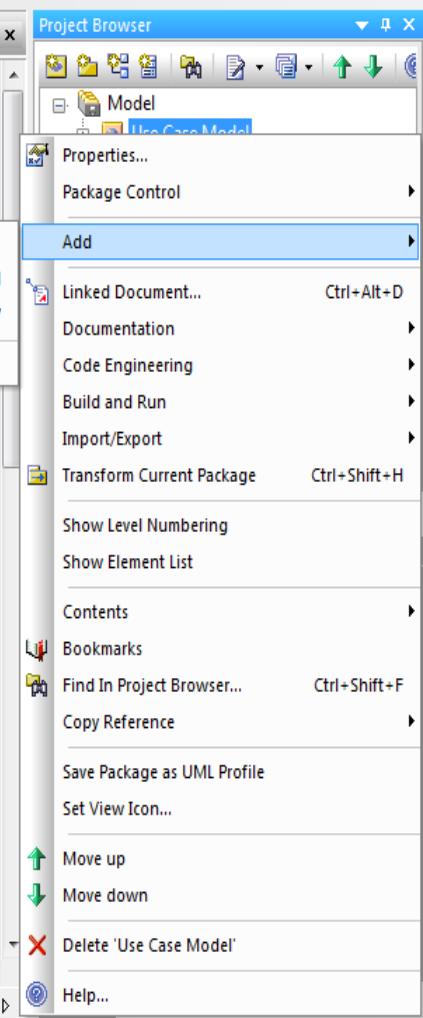
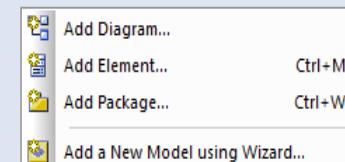
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Requirements Diagram: "UML Use Case Model" created: 07/10/2018 08:58:42 modified: 07/10/2018 09:06:46 A (1146)



Aggregation

Use Case Model



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Toolbox

Requirements

- Package
- Requirement
- Feature
- Object

Requirements Relationships

Custom

- Package
- Requirement
- Issue
- Change
- Screen
- UI Control
- Test Case
- Entity

Rule Flow Relationships

- Control Flow

Common

Project Browser

Model

Use Case Model

New Diagram

Name: Use Case Model

Type

Select From:

- UML Structural
- UML Behavioral
- Extended
- Archimate
- BPMM 1.0
- BPMM 1.1
- Data Flow Diagrams
- MindMapping
- SOMF
- SPERM
- Strategic Modeling
- Web Modeling

Diagram Types:

- Custom
- Requirements
- Maintenance
- Analysis
- User Interface
- Data Modeling
- Documentation
- Business Modeling

Requirements Diagrams are used to describe a system's requirements or features as a visual model.

OK Cancel Help

Start Page *Use Case Model

Notes Pan & Zoom Properties

Aggregation

Use Case Model

09:22 11/11/2018

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Toolbox More tools... Requirements Diagram: "Use Case Model" created: 07/10/2018 08:58:42 modified: 07/10/2018 09:06:46 px 1146

EA - GettingStarted Layout Palette

Project Browser

Model Use Case Model Use Case Model Actors Primary Use Cases Primary Use Cases Use Case1 Use Case1 Object1 Use Case2 Requirement1 Requirement2

Notes

Start Page *Use Case Model

Aggregation Use Case Model

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Windows Taskbar: Internet Explorer, File Explorer, Media Player, Control Panel, Chrome, Microsoft Word, Microsoft Powerpoint, 09:26 PM, Battery, Network, Volume, Task View, Task Manager



Thank You