

We use System Models to describe the following:

Object model



Functional model



Dynamic model

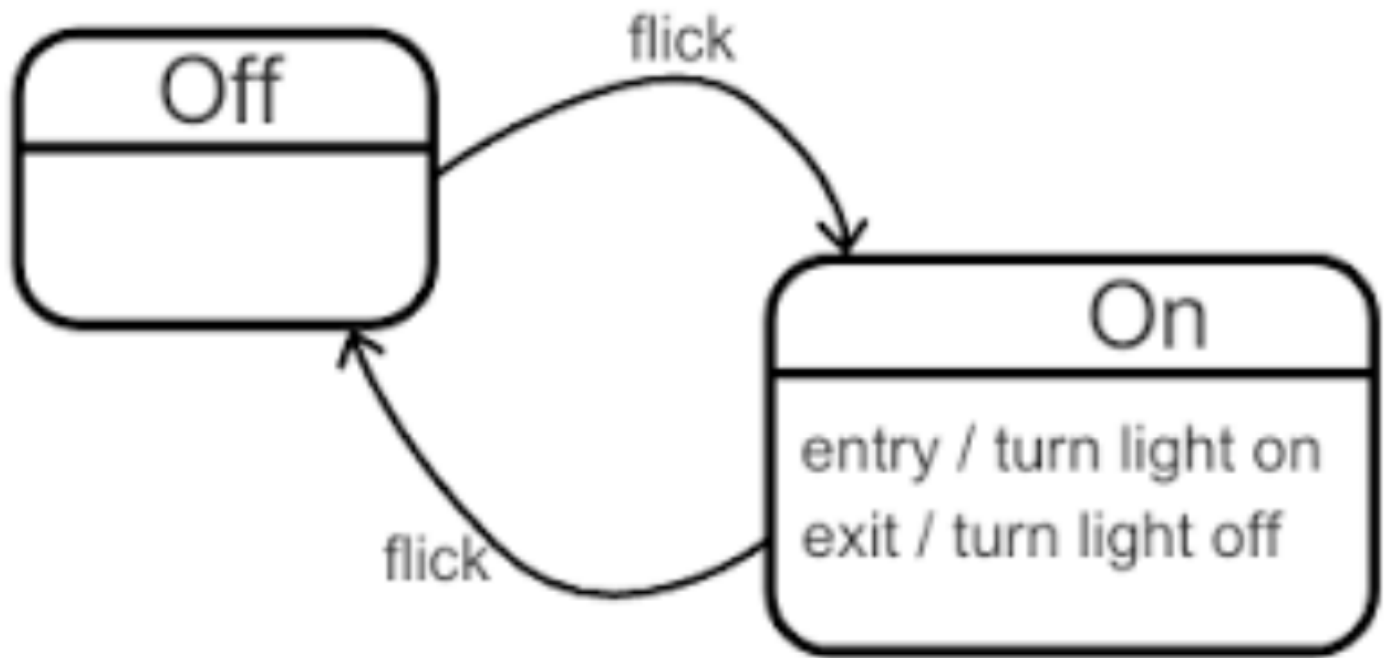


Object model + functional model + dynamic model



Application Domain is

- The technologies used to build the system
- The environment in which the system is operating
-
- The domain where we discuss the problem
- The collection of requirements gathered



The above model represent the following syntax of UML:

- Class diagram
- Use case model
- state machine model
- sequence diagram

One of the following is not a technique used to deal with complexity:

- Abstraction
- Hierarchy
- Decomposition
- Overloading

For Is-Kind-Of is relationship we use the following relationship:

- Association
- Composition
- Generalization
- Aggregation

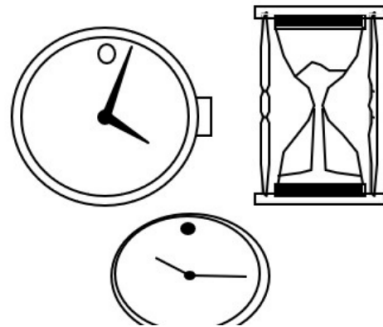
Name

Watch



A device that
measures time.

Members



: A concept is a 3-tuple, please choose the tuple that fits in the red square from the image

Phenomena

Medium

Purpose

Devise

Which model is used to capture the interaction between the system objects ?

- state model
- sequence diagram
- use case
- object model

Forward Engineering is to move constantly between forward and reverse engineering and is useful when requirements, technology and schedules are changing frequently.

- True
- False

Model-driven development relies on two main phases: Build *platform-independent model* and *code generation*.

True

False

In Class identification we assume Where we can find the *classes for a new software system*.

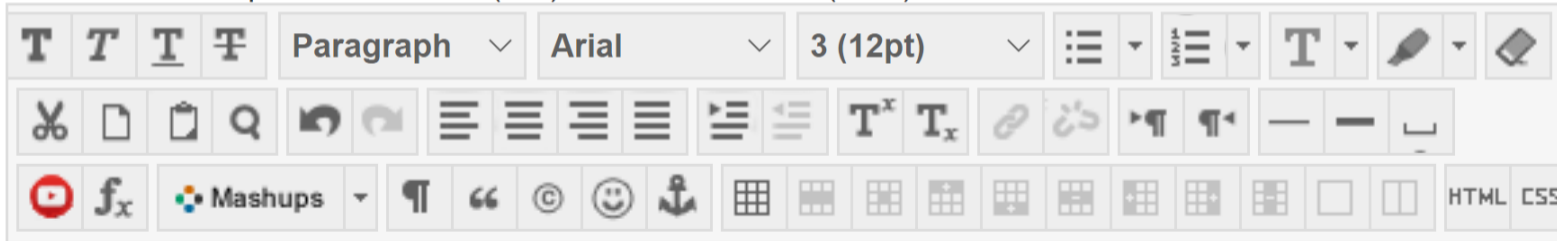
greenfield engineering

There are two types of hierarchy relationship: and

part-of , is-kind-of

Define modeling

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



What is the definition of a 'Software Engineering'

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



Consider the following situation:

- * Ahmed is a dentist and he has dentistry where patients can come and get treated.
- * the patient walks into the reception, then talks to the receptionist to book an appointment.
- * the Receptionist evaluates the situation, either emergency or not.
- * Based on this evaluation, he can book an appointment, assign the type of appointment, produce a bill.
- * the patient, can book an appointment, pay the balance due, cancel an appointment.
- * The doctor can treat the patient, request another session.

Please provide the following:

1. Please draw the use case model for the following:
2. Textual Description of 'book an appointment' use case with flow of events

Attach File

Browse My Computer

Consider the following statement:

* a bank manager needs to develop an application to manage accounts and balances. The customer can have several accounts and also can have many cards. The bank manager wants a responsive application that can give feedback to the customer within at least 5 seconds. The bank manager has a problem with error reporting. Therefore, he wants to integrate an error reporting mechanism. Also, he wants the system to be friendly by activating a touch-based screen.

Please write the following requirements:

-- Non-functional requirements

* 1 Usability requirements

* 1 robustness

-- Functional Requirements

* any 3 Functional requirements

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