



Practical UML for Business Analysts

Govind Krishna Mekala

Challenges

- Gap between BAs and tech teams due to lack for common view towards a problem.
- Too much documentation in text form, which is difficult to understand. A picture is worth more than thousand words.
- Lack of standards to document requirements which appeals to both customer and development teams.

Why UML?

- A standard and integral part of RUP.
- Standard notations and common language. Very less or no legend required as a supplement to the diagrams.
- Facilitates discussion around the UML diagrams. A pictorial view of domain and requirement analysis.
- Language and technology independent.

UML for BAs?

- Common misunderstanding:
 - UML is only for techies?
 - UML is difficult to learn?
 - UML tools are expensive?
 - UML diagrams are difficult to understand!
 - UML is time consuming.

Agenda

We are going to cover the following topics in UML:

1. Specification perspective.
2. Use Case Diagram
3. Activity Diagram

Hands On:

1. Tool: Visio 2003.
2. Exercise

UML perspectives

Three different perspectives of UML:

1. Conceptual – Concepts in the domain under study, Language Independent.
2. Specification – Defines overall interfaces of the software.
3. Implementation – Defines details of implementations in terms of classes, components, sequence and state.

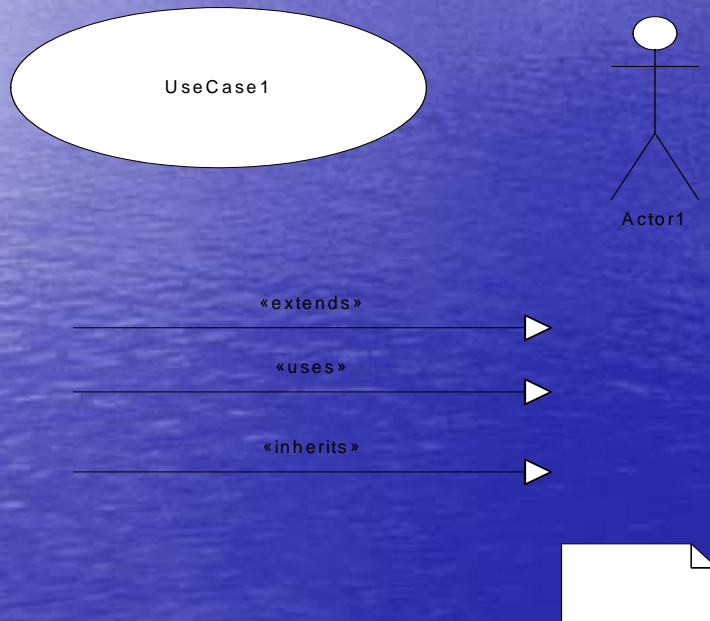
Use Case

Use Case: Set of scenarios tied together by a common user goal.

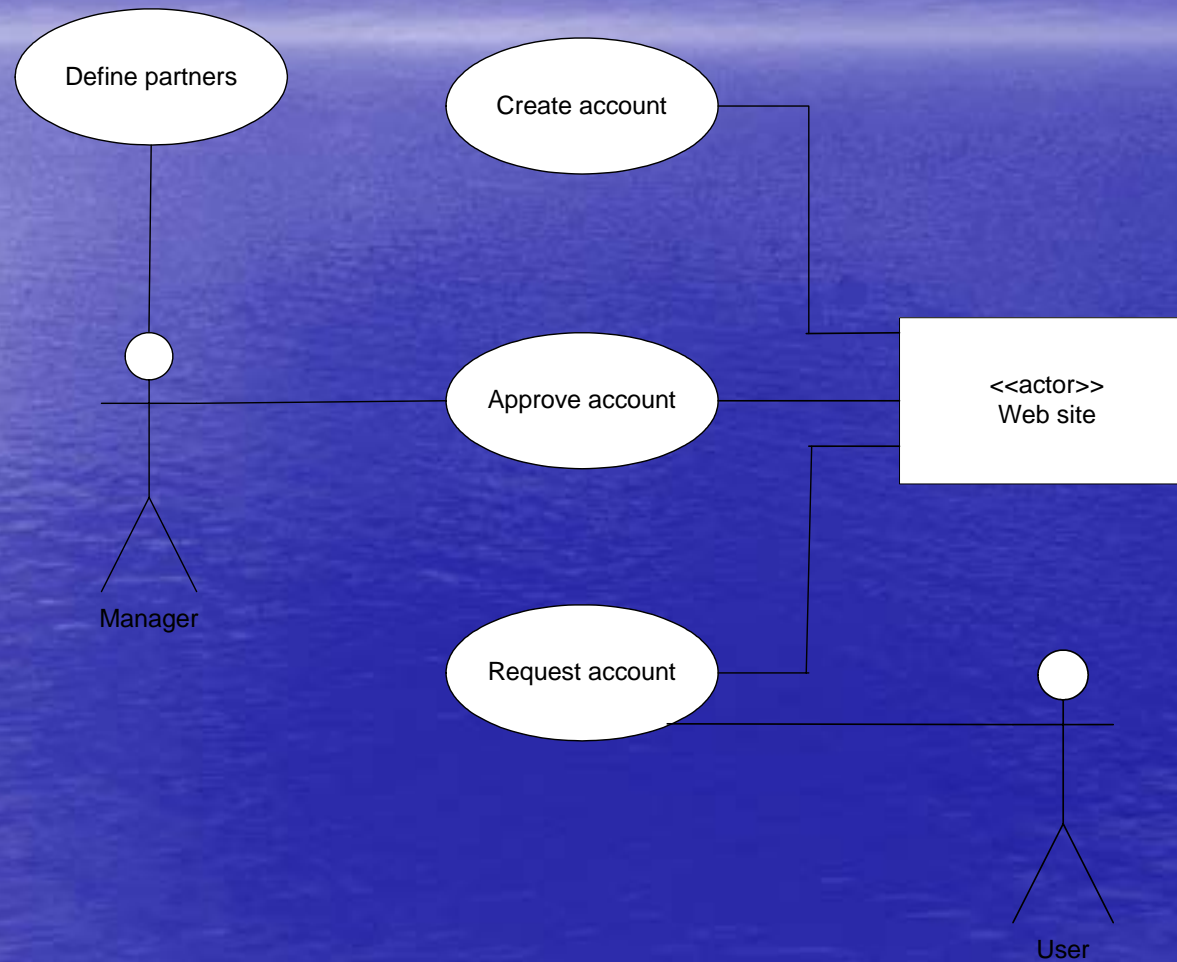
Example: *A corporate web portal, that will serve employees, customer, and partners. The task at hand is use registration for each type of user. Employees are assumed to be able to register themselves. Customer can, too. Partners can register themselves and get basic access, but need to be checked against a partner list before they can be granted full access. If the partner isn't on the list, a manager needs to authorize*

Use case Diagram

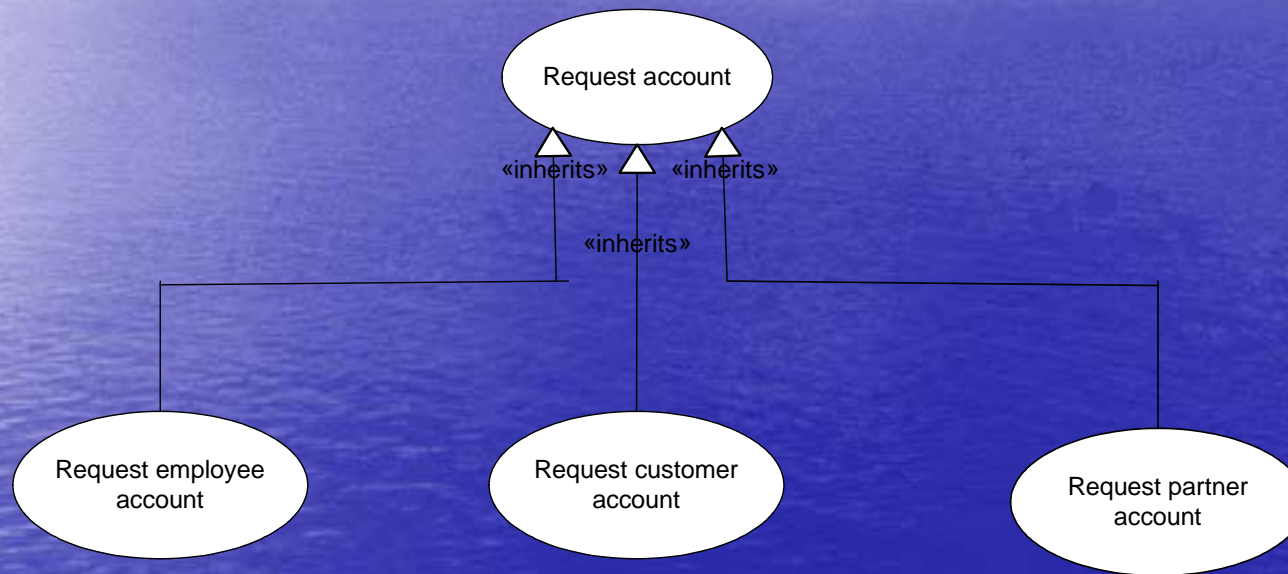
- Basic notations:



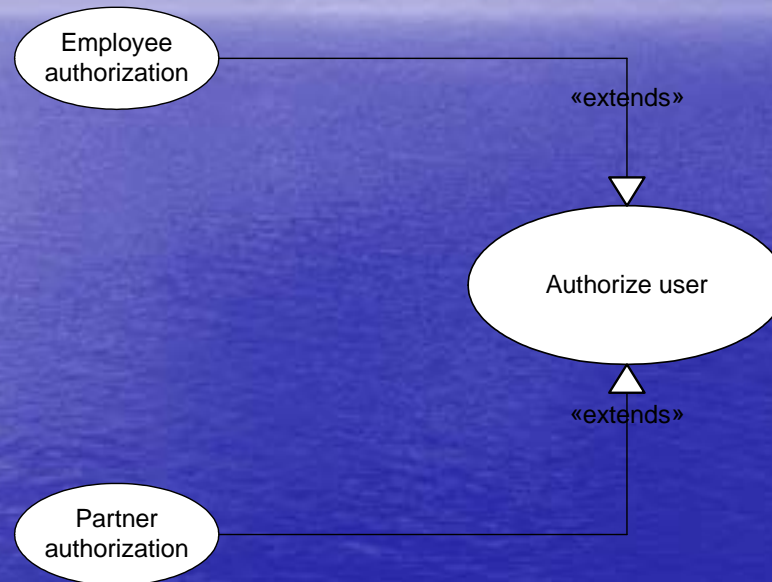
Use Cases Diagram



Generalized use cases

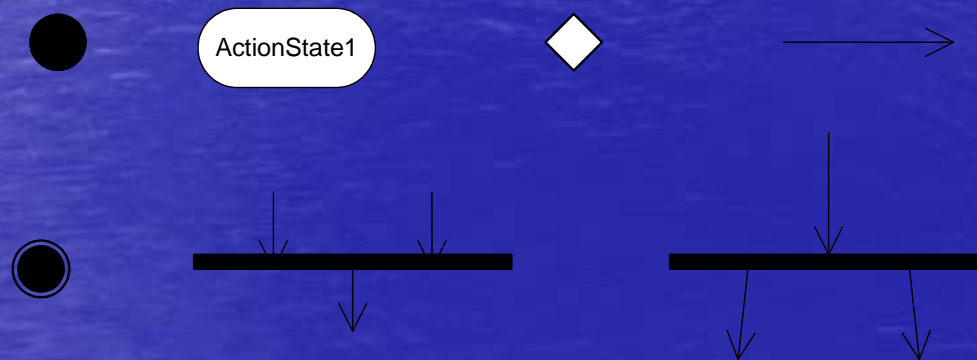


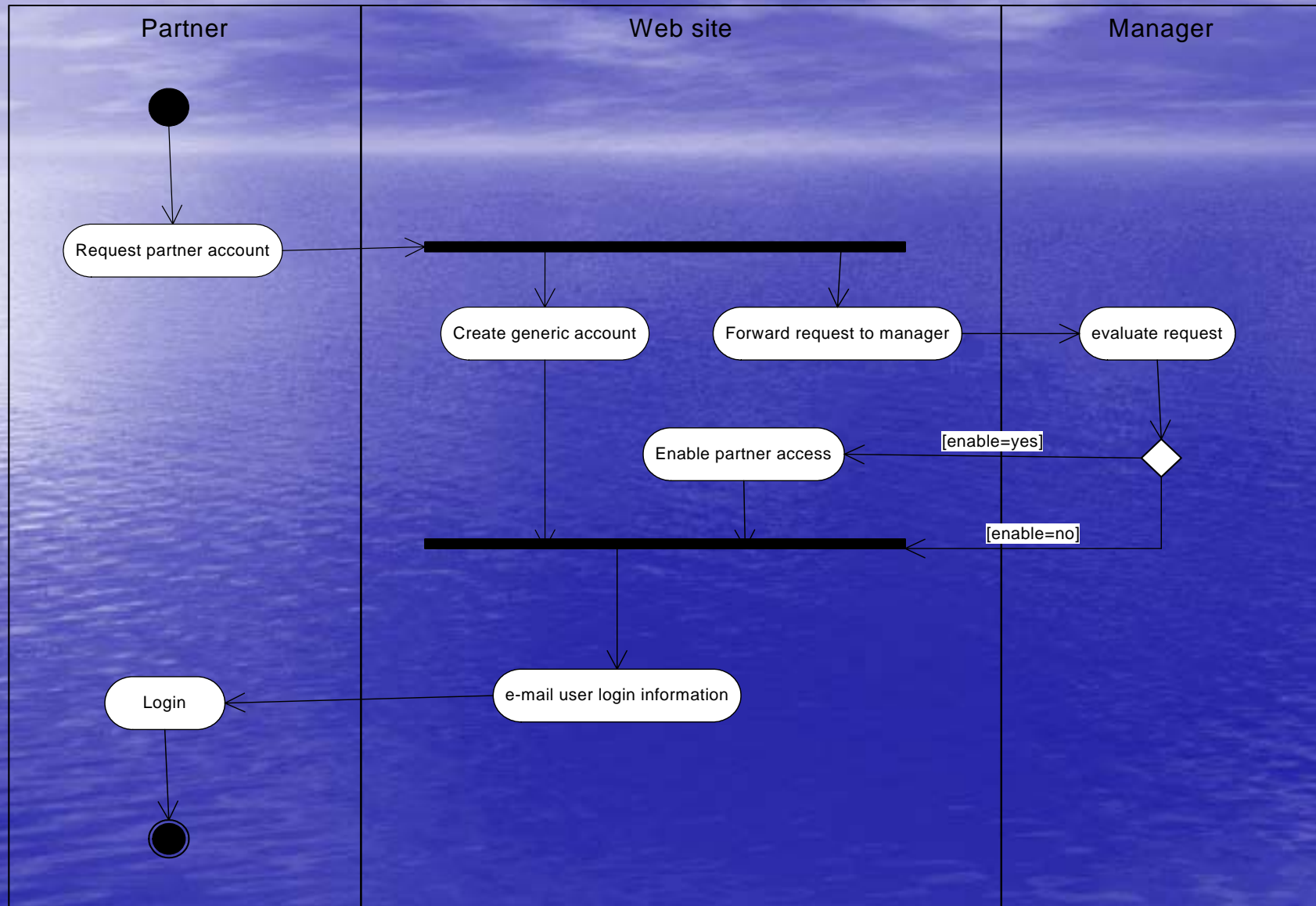
Extend Use Case



Activity Diagram

- Activity diagram is used to describe a use case in detail. They support parallel operations.
- Notation





Tools

- Visio 2003 / Visio 2000 with UML stencils
Cumbersome to align and glue diagrams.
- TogetherJ
Takes care of grouping and alignment.
- UMLet: free UML tool. Requires JDK1.4
<http://qse.ifs.tuwien.ac.at/~auer/umlet/>