Activity Diagrams

- Диаграми на дейността

Диаграма на дейността (Activity diagram)

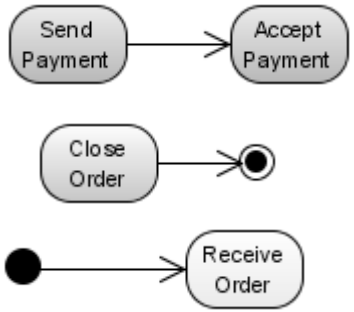
- Описание
- Нотация
- Декомпозиране на действие
- Дялове
- Сигнали
- Маркери и обекти

Диаграма на дейността

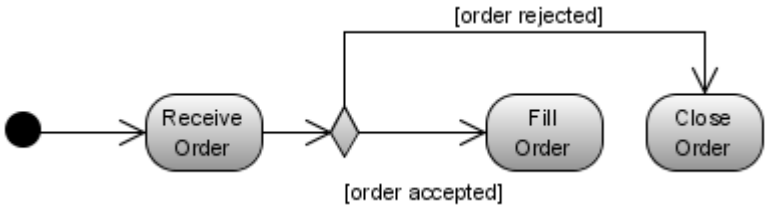
- Описва процедурна логика, бизнес процес, работен поток.
  - Показва последователност от действия.
  - Като блок-схема, но поддържа паралелно поведение.
  - Може да има разклонения както блок-схемите.
  - Показва логиката на поведение.
  - Състоянията са дейности.
  - Дейност е изпълнението на задача, като това може да бъде физическа дейност или изпълнение на код.

Компоненти

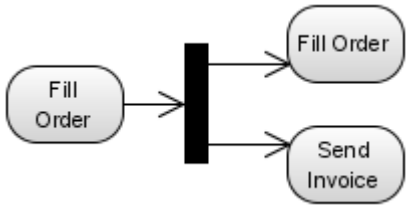
- Действия
- Изход
- Вход



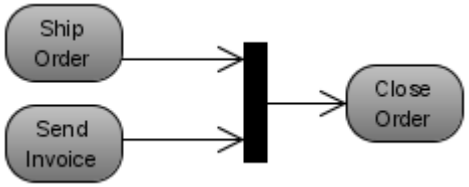
- Условно поведение
  - сливане



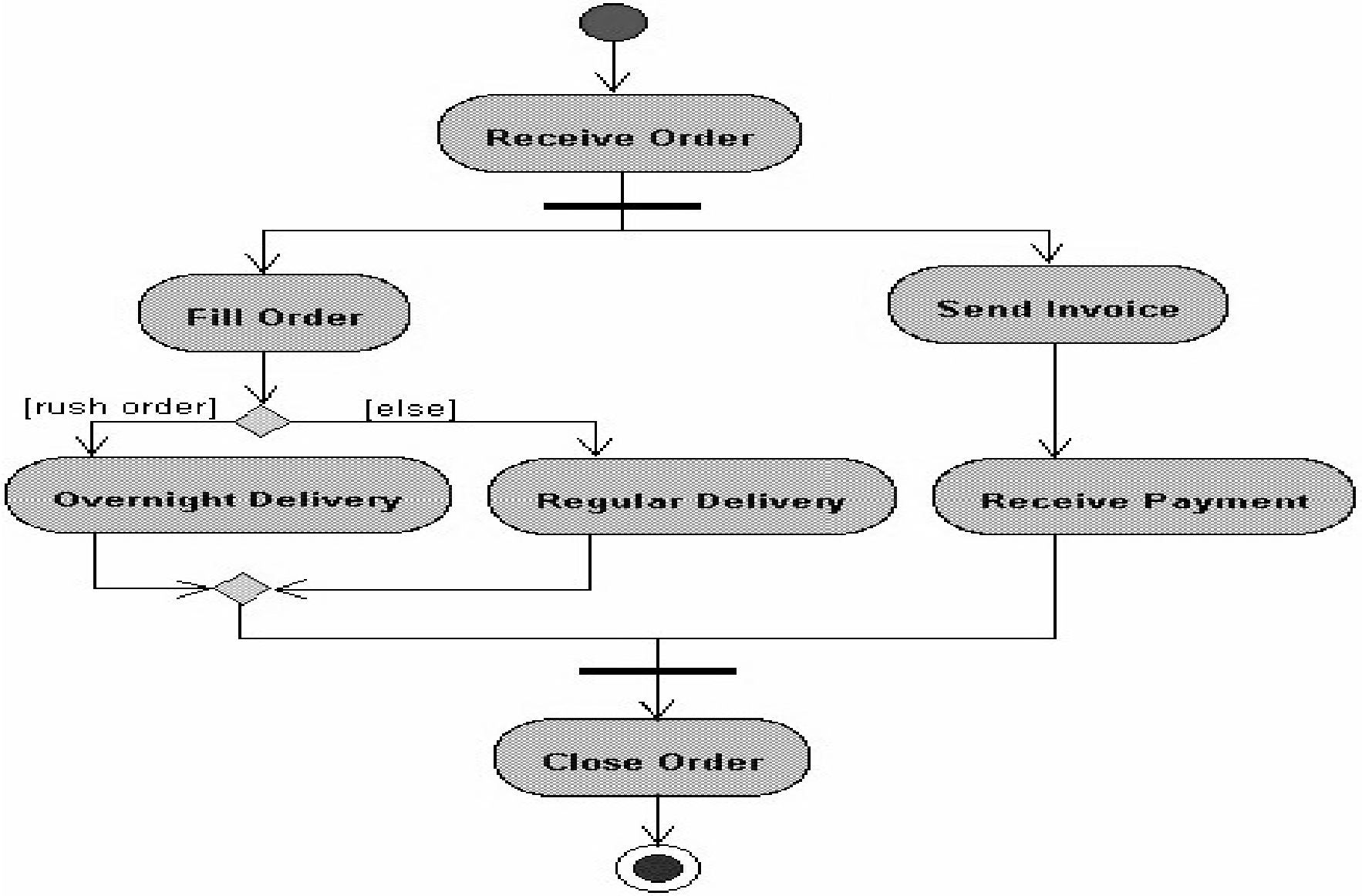
- Разклонение



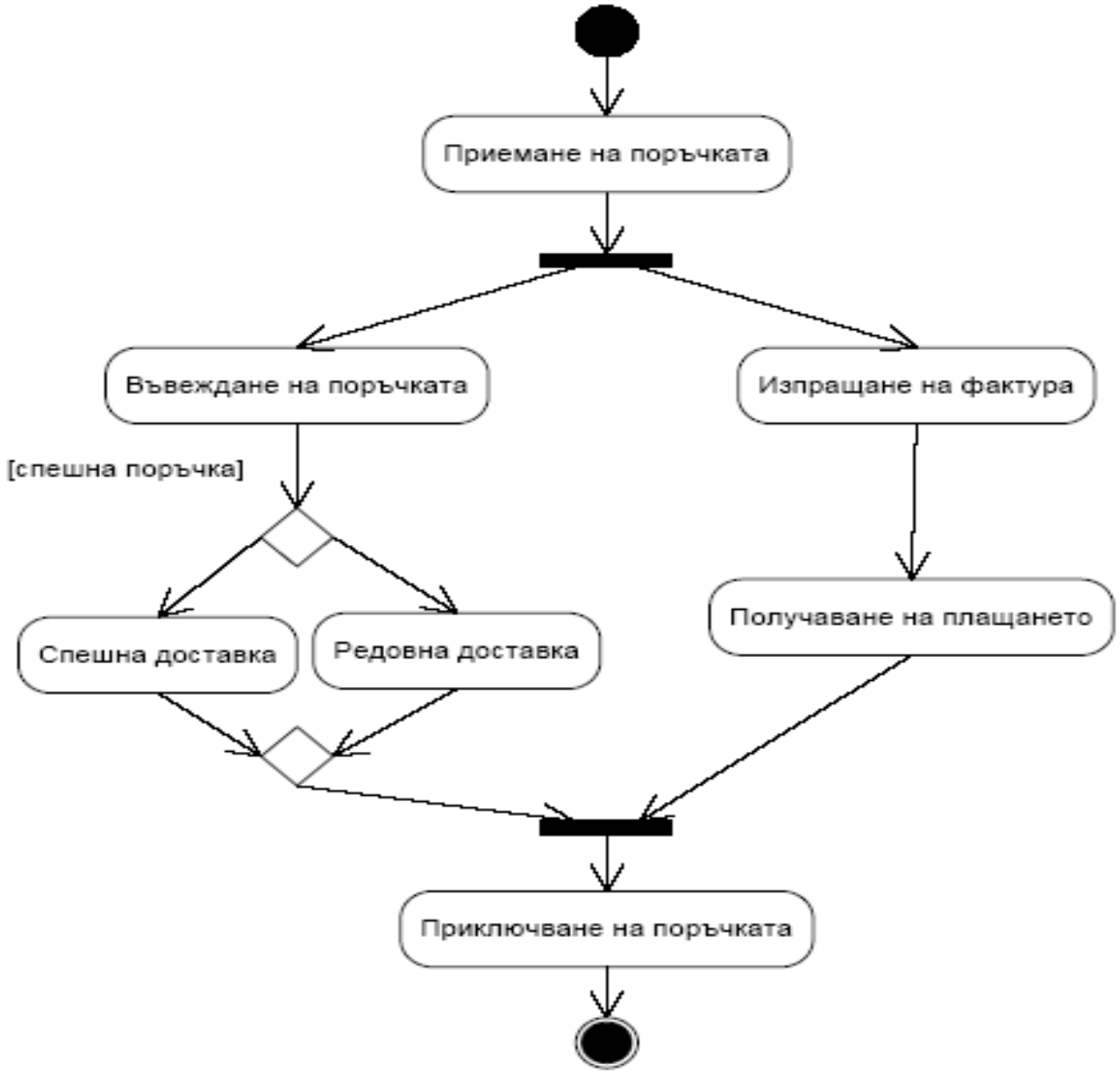
- Свързване



Диаграма на дейността

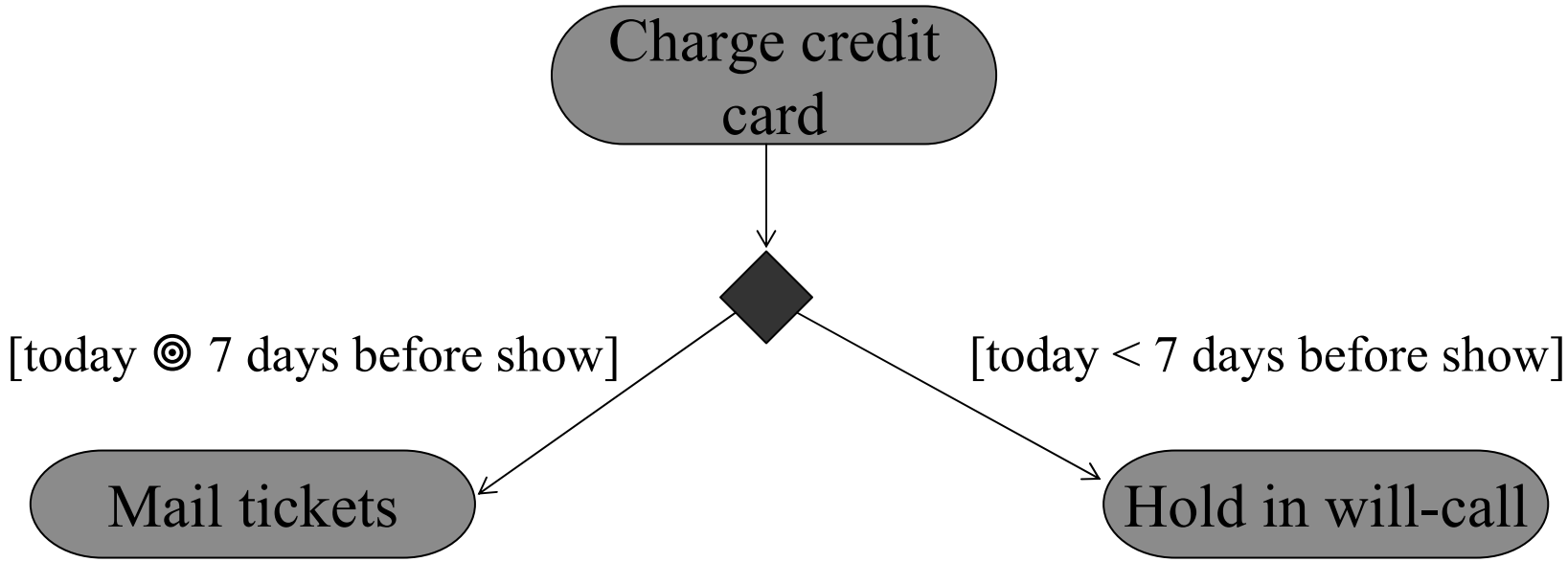


Диаграма на дейността



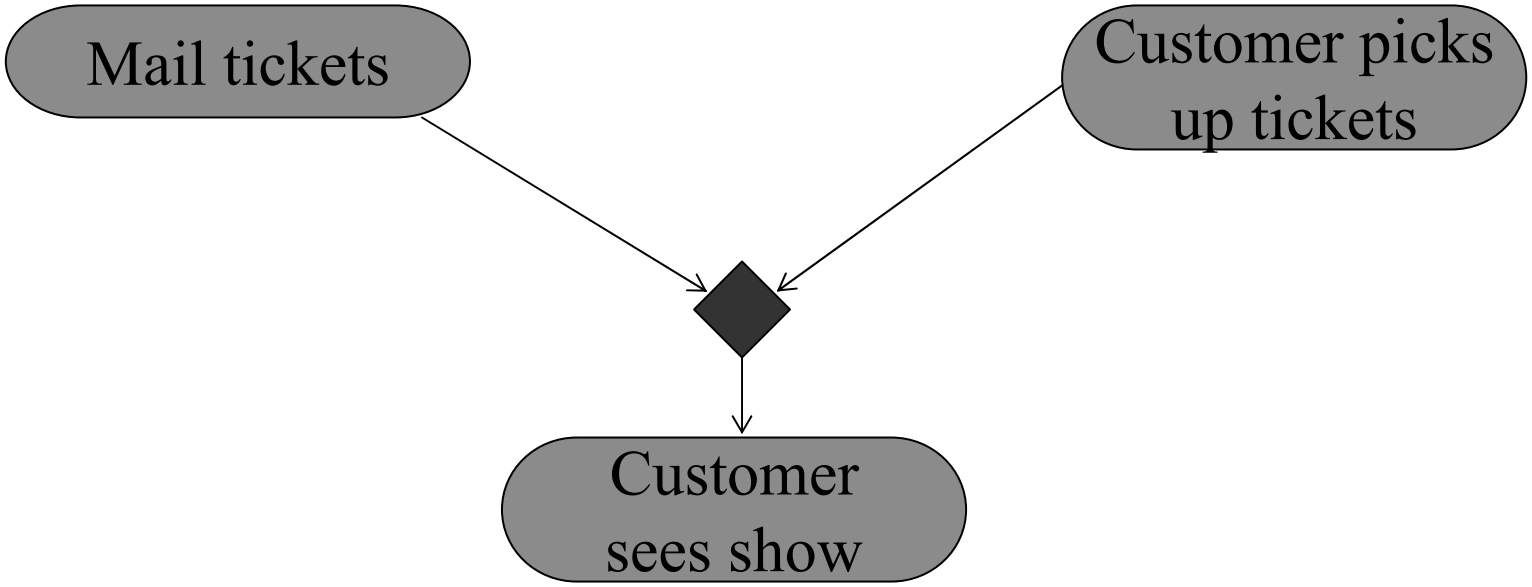
Branching

A branch has one incoming transition and two or more outgoing transitions:



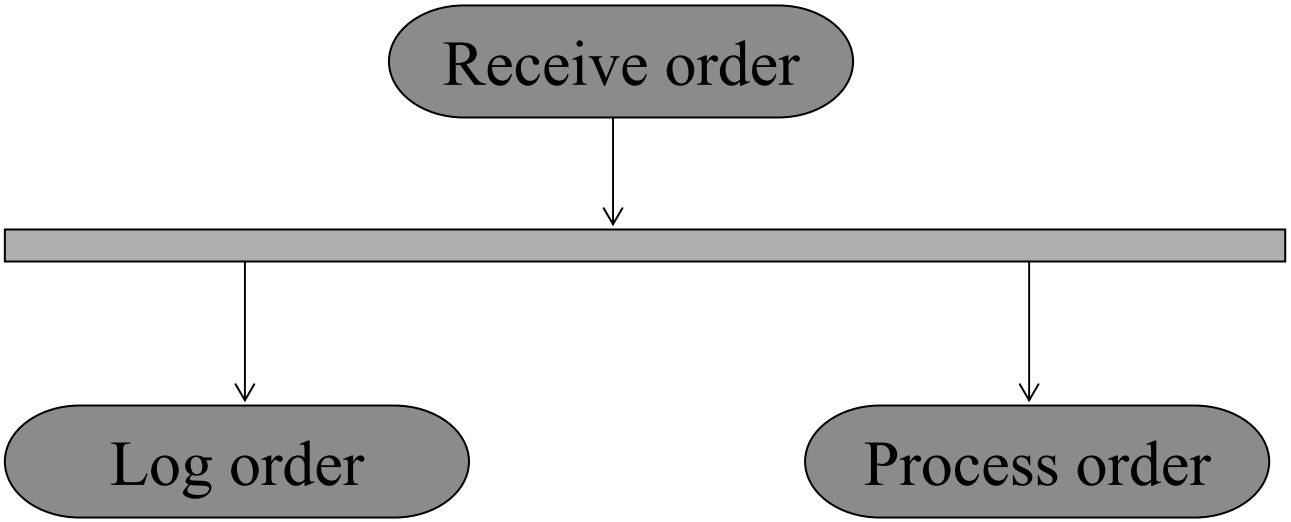
Merging

A merge has two or more incoming transitions and one outgoing transition:



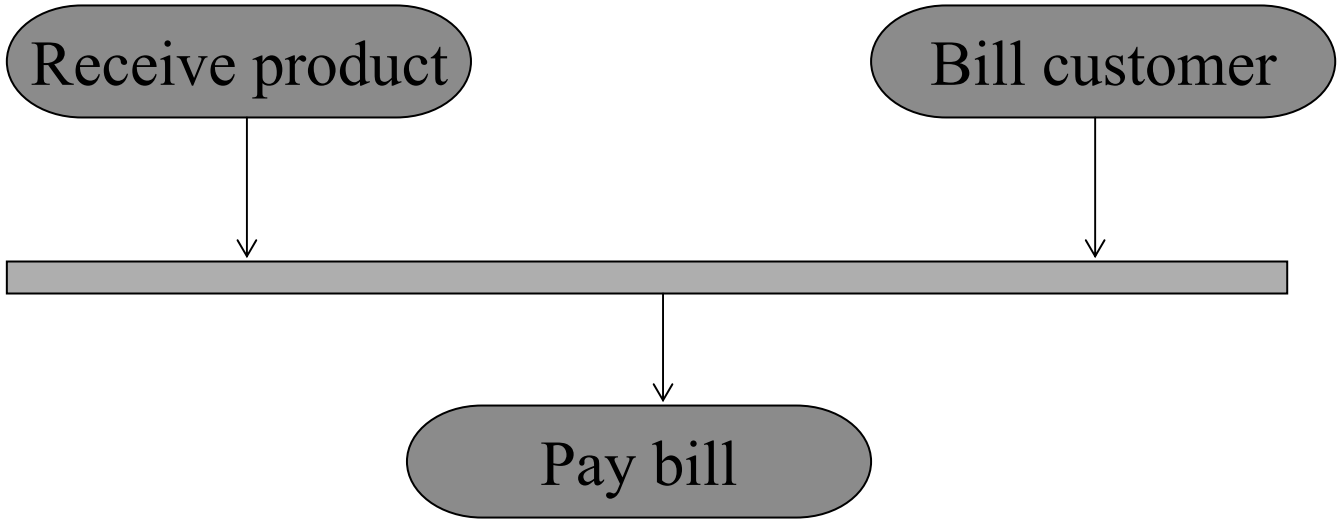
Forking

A fork represents the splitting of a single flow of control into two or more concurrent flows of control:



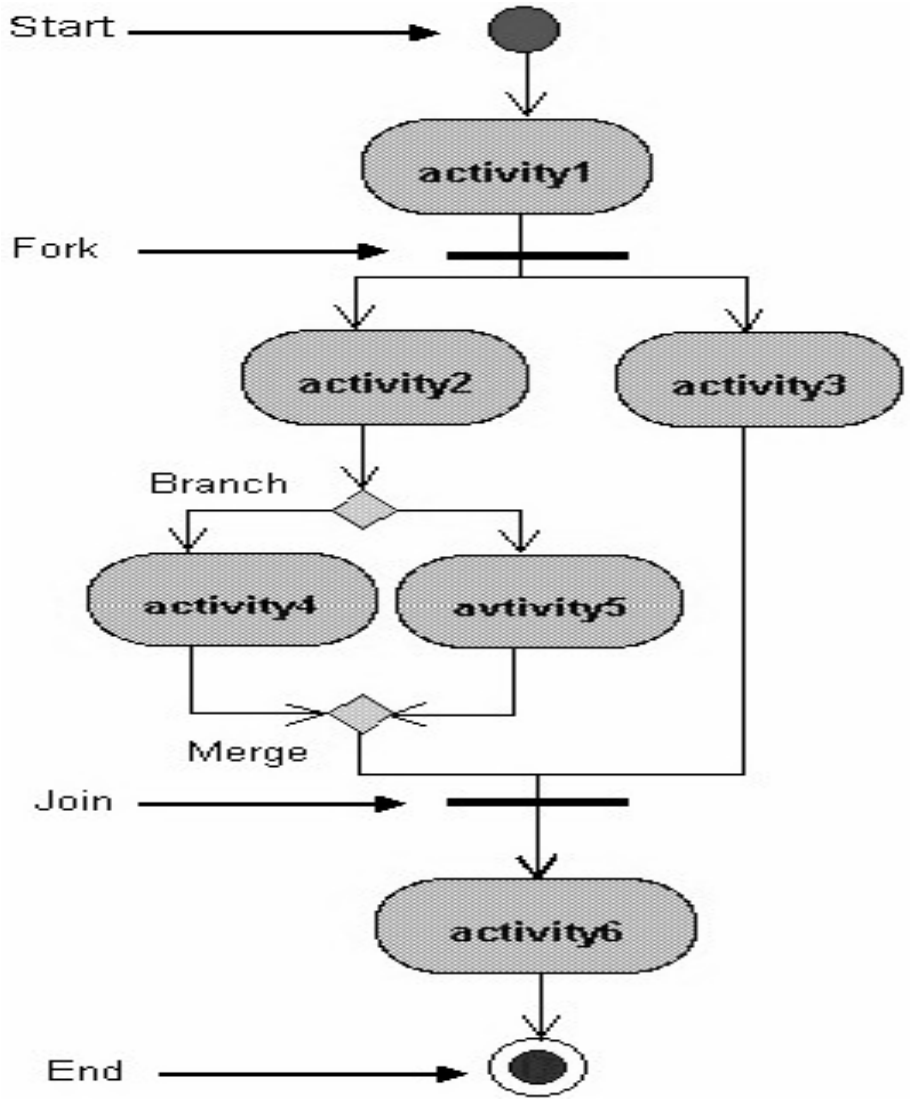
Joining

A join represents the synchronization of two or more flows of control into one sequential flow of control:



Диаграма на дейността
- описание и UML нотация

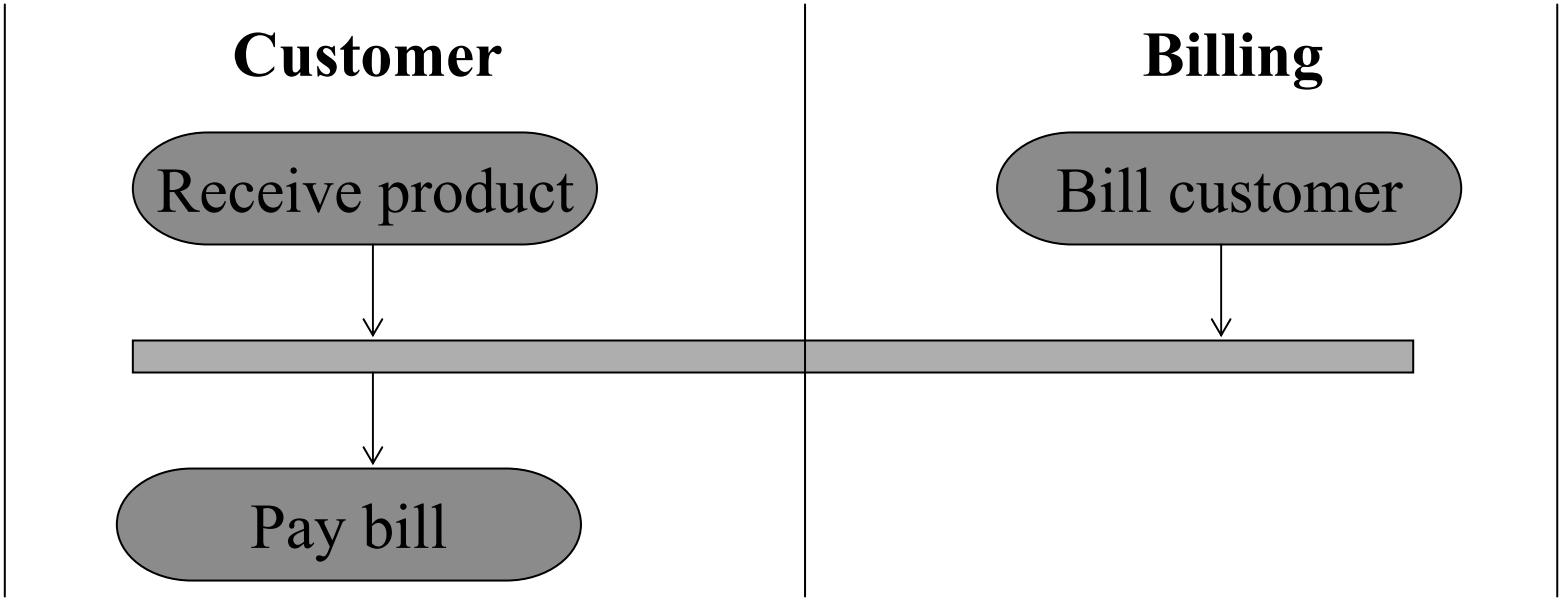
Условно поведение:
Ограничение [guard]:
Разклонение (Branch) и сливане (Merge)



Описание на паралелни процеси.
Синхронизация:
Разклонение (Fork) и свързване (Join)

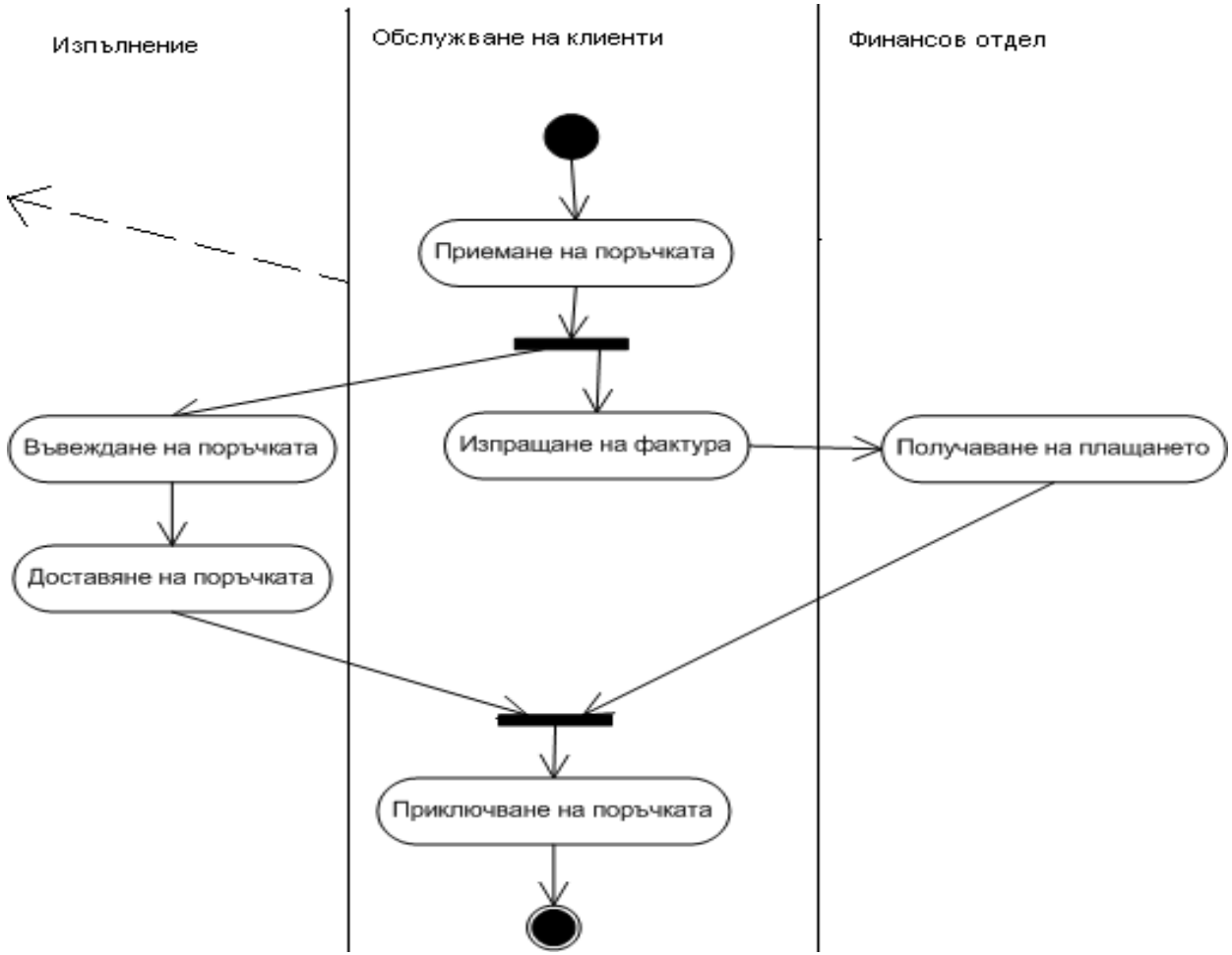
Swimlanes

Swimlanes partition groups of activities based on, for instance, business organizations:



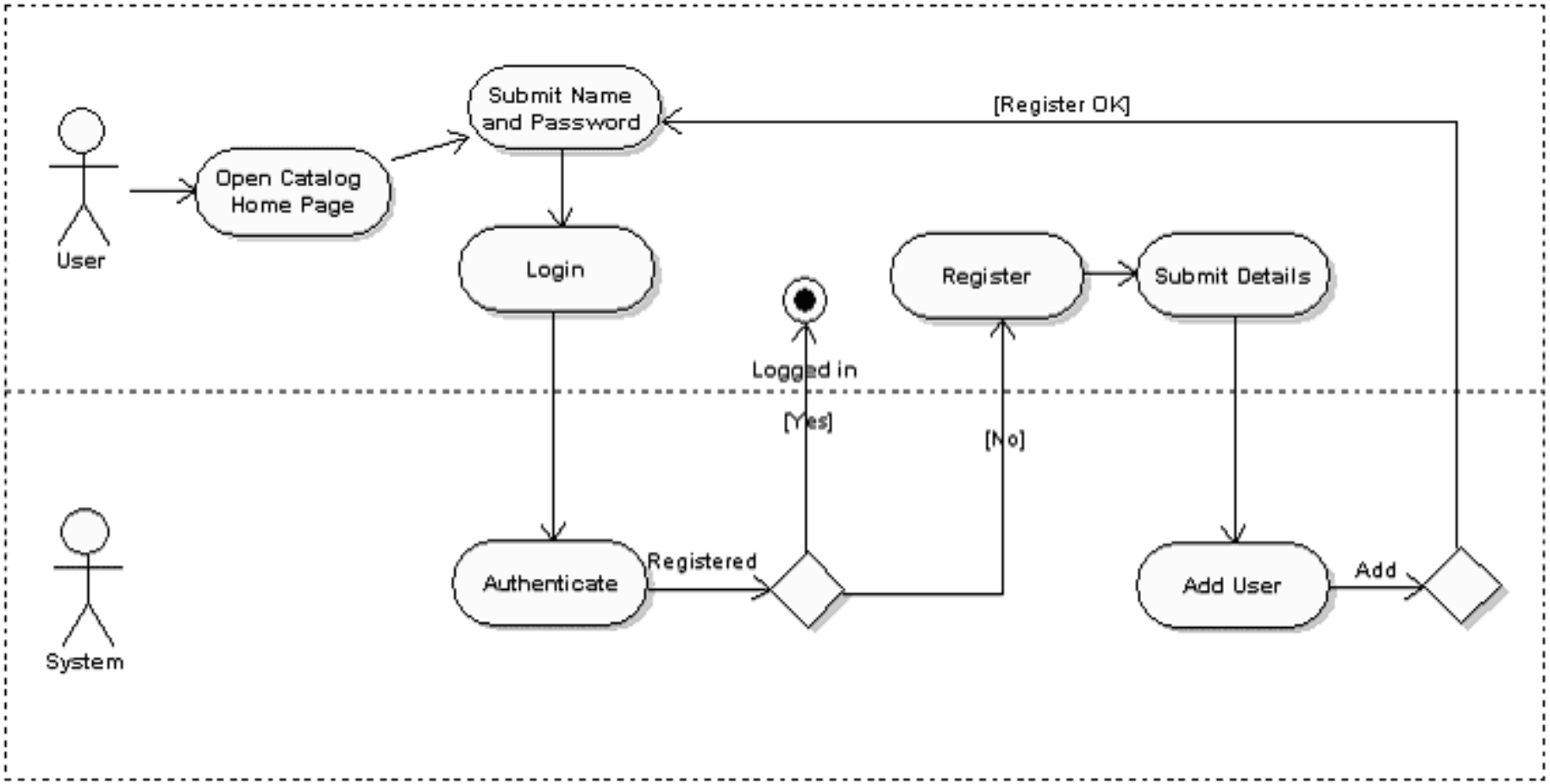
Диаграма на дейността
-Дялове (partitions)

- Swim lanes

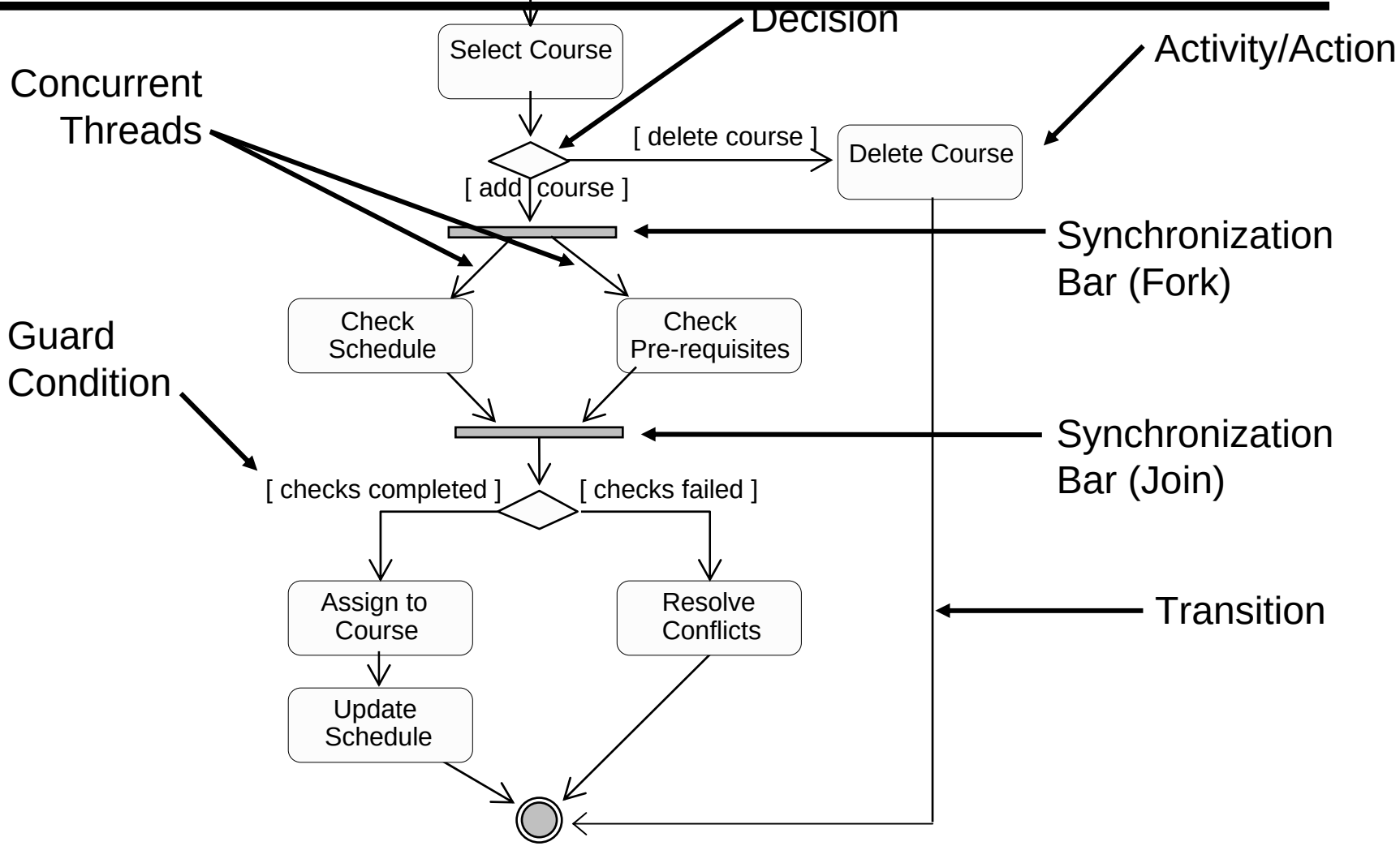


- Ако искаме да покажем кой какво извършва, разделяме ACD на дялове

Use case & Activity Diagram



Example: Activity Diagram



Use case & Activity Diagram - UML 2