CO457 Business Modelling

Module Week 4

Scoping Business Functionality

- Business functionality Is modelled at three levels of detail
- Functions:
 - Captured in a **functional decomposition**
 - For scoping the **business functions**
 - Spanned by processes



- Business functionality Is modelled at three levels of detail
- Processes May cut across several functional areas:
- Modelled as:
 - Use cases
 - Cross-functional maps
 - Consist of activities



- Business functionality Is modelled at three levels of detail
- Activities:
 - Described in **process/workflow models**
 - Modelled using BPMN
 - Consist of tasks





 Functional decomposition breaks down a business into its functions and sub-functions

• Functions

- Describes the types of processes the business does at the highest level
- Appear in the **functional/process view** of the business architecture
- Frequently correspond to a single organisational unit
- Function names are nouns or noun phrases
 - For example:
 - Market Research
 - Shipping and Receiving

Functional Decomposition Template

Generic business functional decomposition template



Functional Decomposition Template

Generic business functional decomposition template



Functional Decomposition: Example

Kitchen example:



Use-Case Models

Use-Case Models

- A use-case model describes the processes performed in a subject
 - Business function(s)
- Business use-case models consist of
 - A use-case diagram at two levels of detail
 - Contextual view
 - High level
 - Refined view
 - Use-case decomposition level



Use-Case Models

- Structured documentation describing the business use case
 - At three levels of detail:
 - Brief
 - Casual
 - Fully dressed



Use-Case Models: Example

 Example: Context level use-case diagram for kitchen functionality



- The scope being modelled is illustrated with a subject boundary
 - Appears as a rectangle on the diagram
 - Kitchen Department Food Management and Preparation



- Business use cases are the processes performed in the business function
 - Appear as ovals inside the subject boundary



- Business actors are usually types of people or IT systems
 - Appear as stick figures on the diagram
 - Outside the boundary because they are not inside the function
 - They have a goal they need to achieve
 - Goals do not appear on the diagram



- Associations connect actors to the processes in which they are involved
 - Appear as straight lines connecting the actors and use cases
- Inanimate equipment and documents used to perform the use cases
 - Do not appear on the diagram



Business Actors

- Business actors exhibit behaviour outside the subject being modeled
 - People identified by role, not by name and not by title
 - For example, customer, supplier, inspector
 - IT systems
 - For example, banking system



Business Actors

- Organisations/units
 - Other businesses, agencies, departments

• Time

- Appear as stick figures with a slash
 - To distinguish them from actors on a system use-case diagram



Business Actors

- Two types of actors
 - Primary
 - Supporting
- Primary actors obtain something of value from the process
 - There is only one primary actor per use case
- Supporting actors provide services needed to reach the primary actor's goal



Generalisation Relationship

- Generalisation is a relationship between a thing and its type
 - Called the 'is a kind of', 'is a type of' or 'is a' relationship
- Terms often used:
 - Super type for the more general things
 - **Subtype** for the more specialised things



Generalization Relationship

