

Purpose of Requirement

• Establish and maintain agreement with the customers and other stakeholders on what the software should do.

• Give software developers a better understanding of the requirements of the software.

• Delimit the software.

• Provide a basis for planning the technical contents of the iterations.

• Provide a basis for estimating cost and time to develop the software.

• Define a user interface of the software.

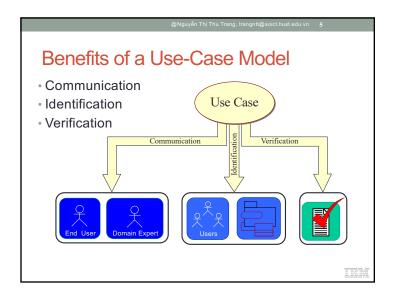
What Is Software Behavior?

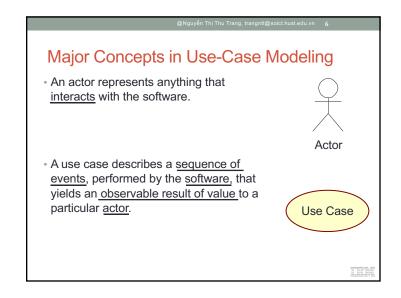
Software behavior is how a software acts and reacts.

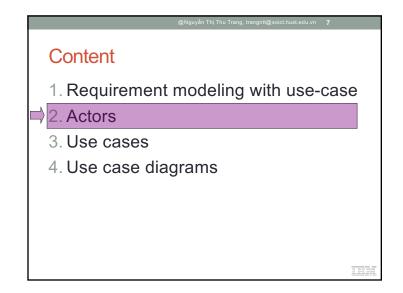
It comprises the actions and activities of a software.

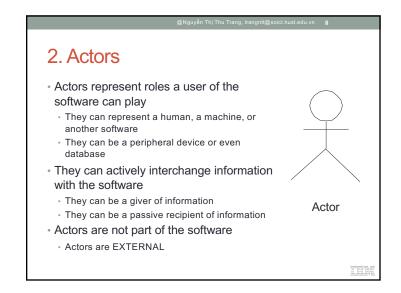
Software behavior is captured in use cases.

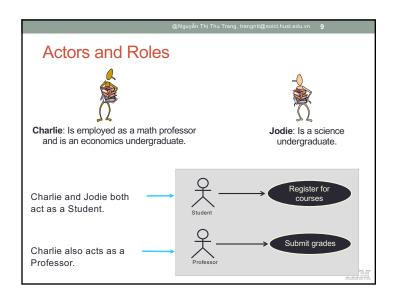
Use cases describe the interactions between the software and (parts of) its environment.











Internet banking system, allowing interbank network, communicates with bank customers via a web application. To perform transactions, customers have to log in the software. Customers may change password or view personal information.

Customers can select any of transaction types: transfer (internal and in interbank network), balance inquiries, transaction history inquiries, electric receipt payment (via EVN software), online saving.

In the transfer transaction, after receiving enough information from the customer, the software asks the bank consortium to process the request. The bank consortium forwards the request to the appropriate bank. The bank then processes and responses to the bank consortium which in turn notifies the result to the software.

The bank officers may create new account for a customer, reset password, view transaction history of a customer.

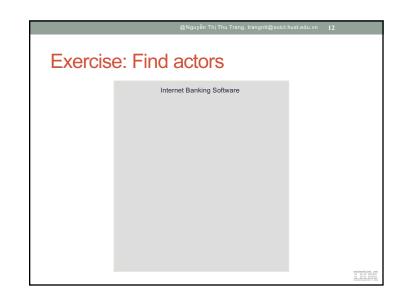
Some guideline to extract actors

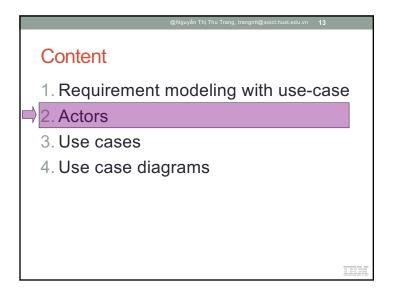
Pay attention to a noun in the problem description, and then extract a subject of action as a Actor.

Ensure that there are no any excesses and deficiencies between the problem description and Actors extracted.

Actor names

should clearly convey the actor's role
good actor names describe their responsibilities





3. Use Cases

• Define a set of use-case instances, where each instance is a sequence of actions a software performs that yields an observable result of value to a particular actor.

• A use case models a dialogue between one or more actors and the software

• A use case describes the actions the software takes to deliver something of value to the actor

Some guidelines to extract use cases

Pay attention to a verb in the problem description, and then extract a series of Actions as a UC.

Ensure that there are no any excesses and deficiencies between the problem description and Use cases extracted.

Check the consistency between Use Cases and related Actors.

Conduct a survey to learn whether customers, business representatives, analysts, and developers all understand the names and descriptions of the use cases



