

SEQUENCE DIAGRAM

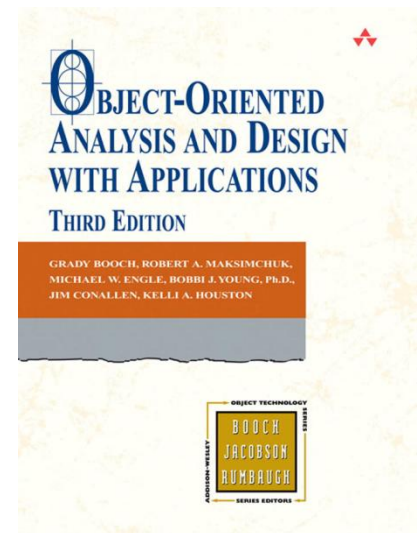
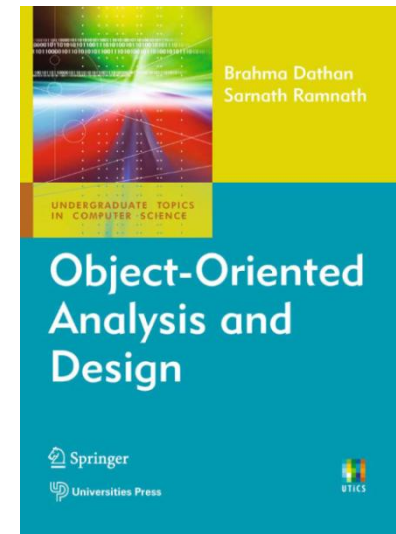
Danang Wahyu Utomo

dngedh28@gmail.com

+6285 725 158 327

Referensi

- ▶ Brahma Dathan, Sarnath Ramnath – **Object-Oriented Analysis and Design** (2011)
- ▶ Grady Brooch, Robert A Maksimchuk, Michael W. Engle, Robbi J. Young, Jim Conallen, Kelli A. Houston – **Object-Oriented Analysis and Design With Applications** Third Edition (2007)



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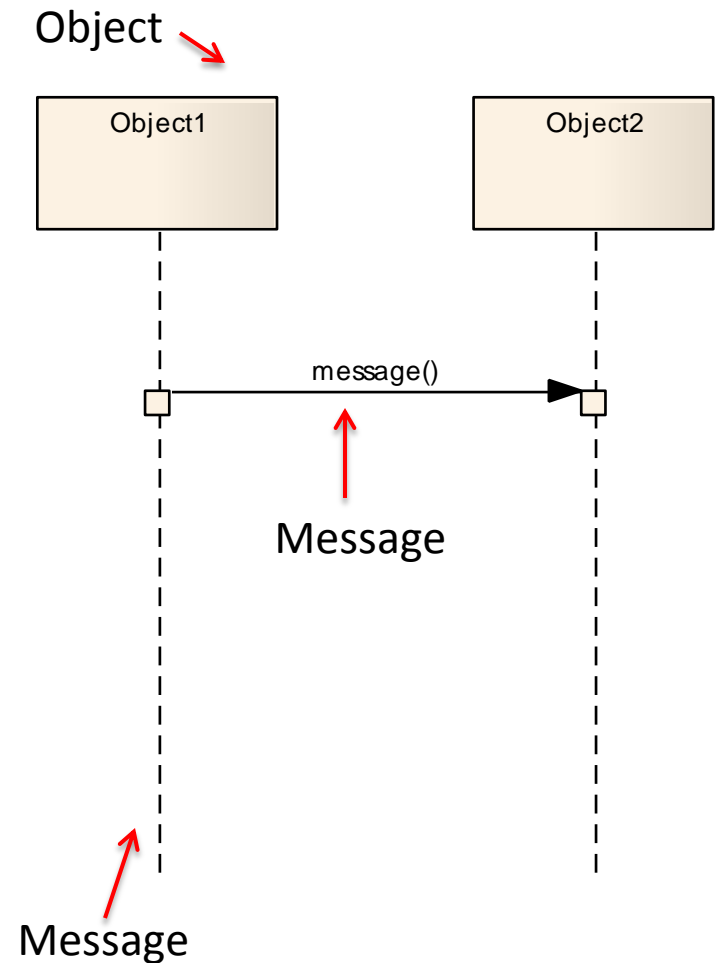
Sequence Diagrams

- ▶ Sequence diagram is a structured representation of behavior as a series of sequential steps over time.
- ▶ Sequence diagram used to depict work flow, message passing and how elements in general cooperate over time to achieve a result
- ▶ Illustrate the object that participate in a use case
- ▶ Show the messages that pass between objects for a particular use case over time

Sequence diagram is used to trace the execution of scenario
In the same context as a communication diagram

Sequence Diagrams Syntax

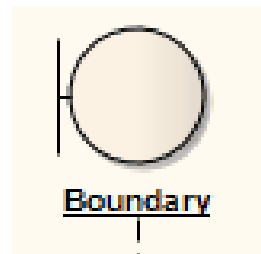
- ▶ The **Object** and **Messages** are taken from the class diagram
- ▶ The **Lifeline** represents the object's life during the interaction
- ▶ **Messages** are represented by arrows between lifelines, labeled at minimum with the message name



Jenis Class

▶ Boundary Class

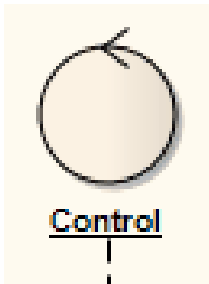
- Stereotyped Object that models some system boundary typically a **user interface screen**
- Boundary used in the conceptual phase to capture user interacting with the system at a screen level
- Example : form, input, user interface, order screen,



Jenis Class

▶ Control Class

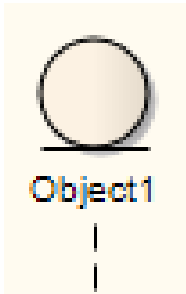
- Stereotyped Object that models a controlling entity or manager.
- A control organizes and schedules other activities and elements
- Example : class that related to processing, calculation, query, computation

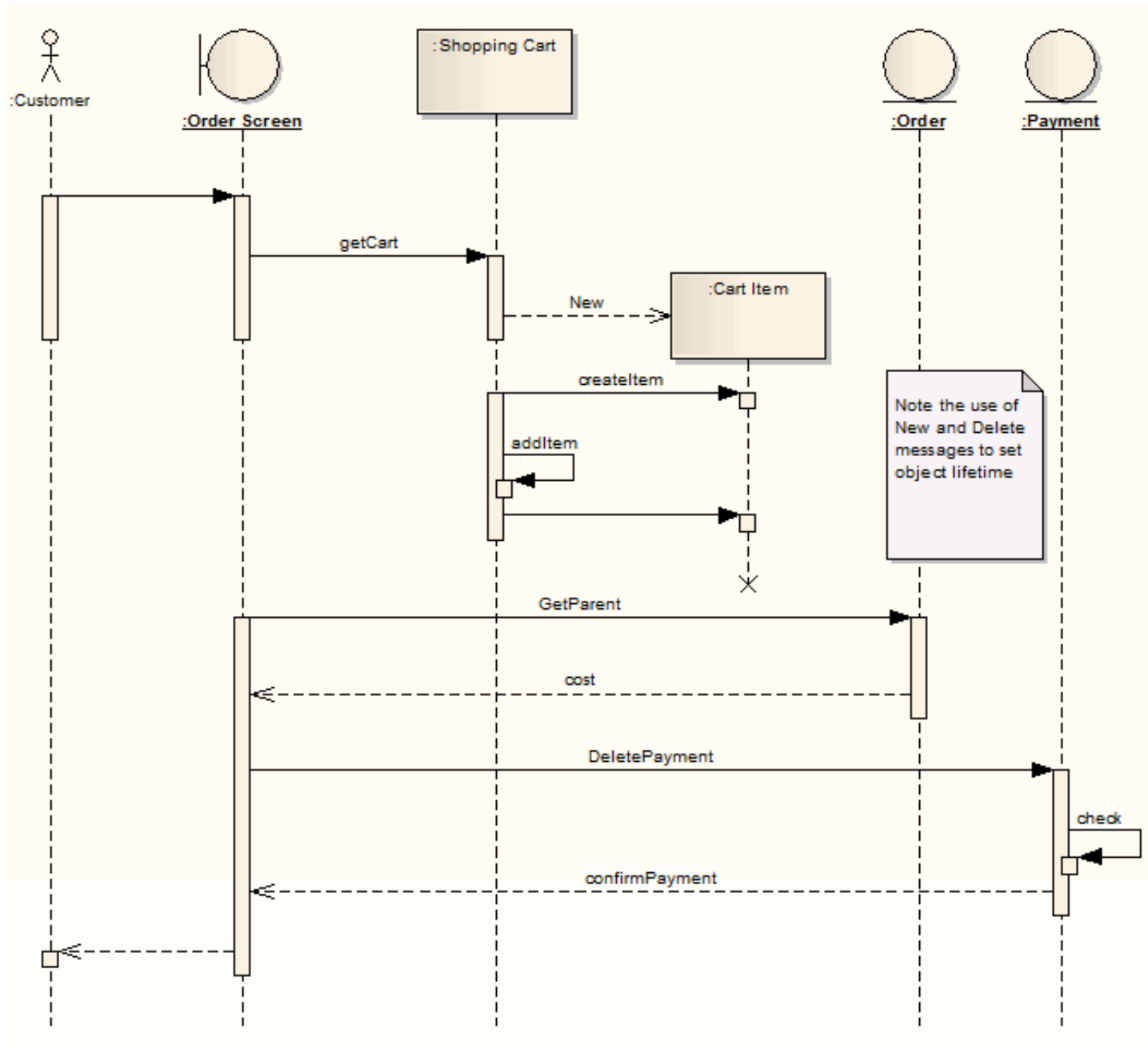


Jenis Class

▶ Entity Class

- Stereotyped Object that models a store or persistence mechanism that captures the information or knowledge in a system
- Example : class that related to data, store data or file, payment





Case Study

- ▶ Currently, the Ministry of Education Malaysia (MOE) has changed the method of assessing the students. The teachers need to observe and monitor their students' performance from standard one to the secondary school. All the information regarding the students are stored with manual filing which lead to problem in managing the records such as missing related documents and files and time consuming. There is also lack of ways to automatically update the MOE for each of the students record. Parents also do not have any medium to monitor their kids progresses accept with an annual face-to-face meeting with teachers.

Assignment

- ▶ Find two videos about sequence diagram
- ▶ Describes your justification max. 6 pages
- ▶ Give example for each videos (by own your case)
- ▶ Discuss your report in class



TERIMA KASIH