

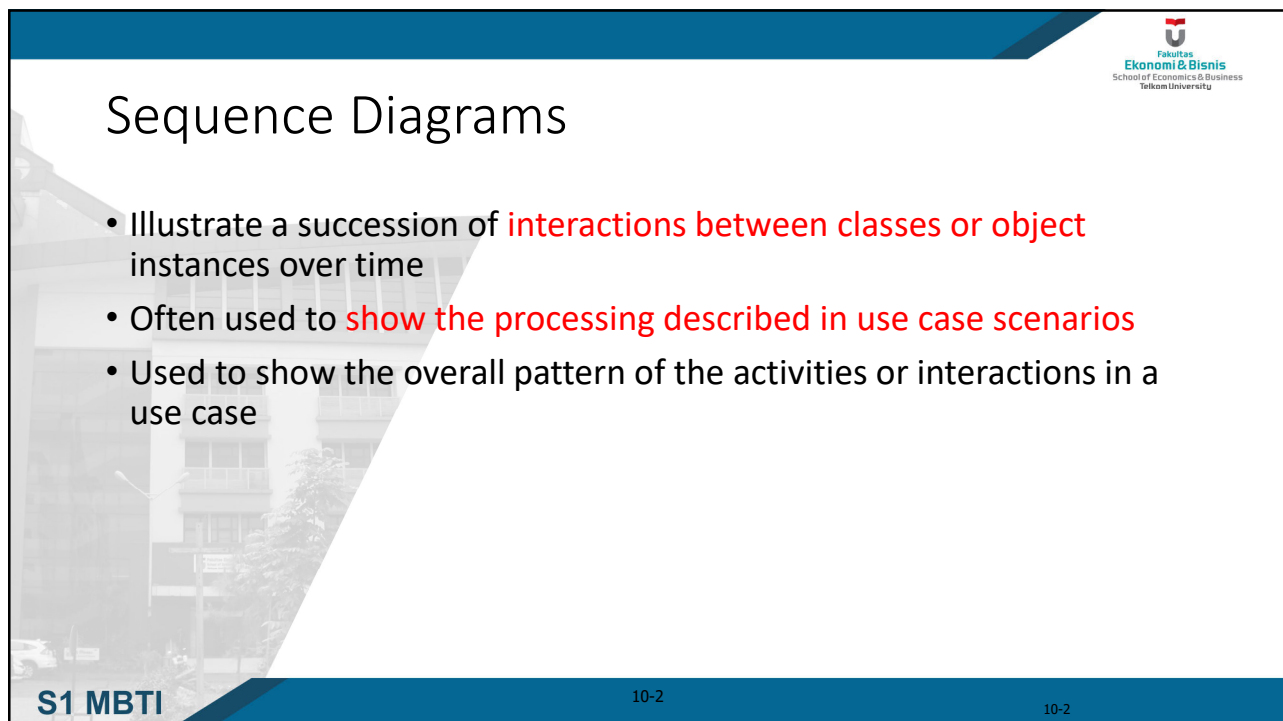
The cover slide features a photograph of a modern building on the left, partially obscured by a large blue diagonal graphic element. The building is identified by the logo of the Faculty of Economics & Business, School of Economics & Business, Telkom University. The text on the right side of the slide reads: 'S1 MBTI' in the top right corner, 'Analisis dan Perancangan Sistem (APS)' in a large font, and 'Sequence Diagram' in a smaller font below it.

Fakultas  
Ekonomi & Bisnis  
School of Economics & Business  
Telkom University

S1 MBTI

# Analisis dan Perancangan Sistem (APS)

Sequence Diagram



The slide is titled 'Sequence Diagrams' and contains a bulleted list of three points. The text is set against a background that includes a faded version of the building from the cover slide and a blue diagonal graphic element. The Telkom University logo is in the top right corner. The slide number '10-2' appears in the bottom right corner.

## Sequence Diagrams

- Illustrate a succession of **interactions between classes or object instances** over time
- Often used to **show the processing described in use case scenarios**
- Used to show the overall pattern of the activities or interactions in a use case

S1 MBTI

10-2

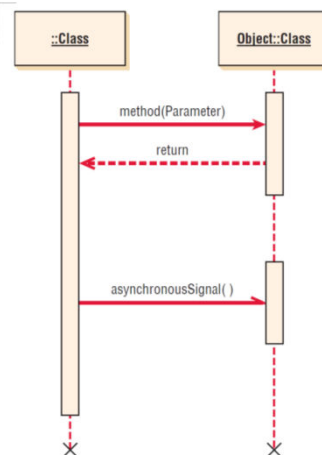
10-2

## Sequence Diagram Component

- Object/Class/Lifeline
  - Interface/Boundary
  - Control
  - Entity/Database
- Message
  - Synchronous message
  - Return message
  - Self message
  - Recursive message
  - Found/lost message
- Activation Bar

S1 MBTI

## Specialized Symbols Used to Draw a Sequence Diagram (Figure 10.10)

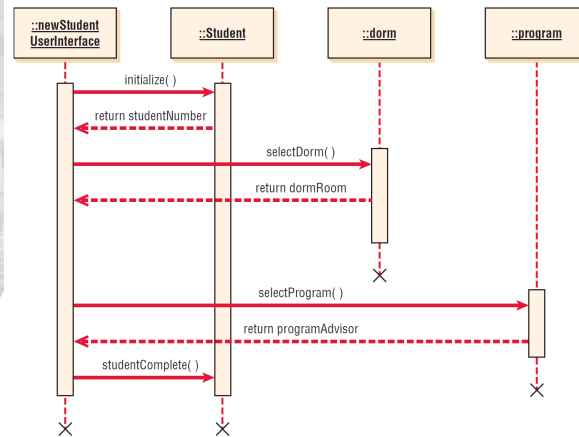


S1 MBTI

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10-4

A Sequence Diagram for Student Admission: Sequence Diagrams Emphasize the Time Ordering of Messages (Figure 10.11)

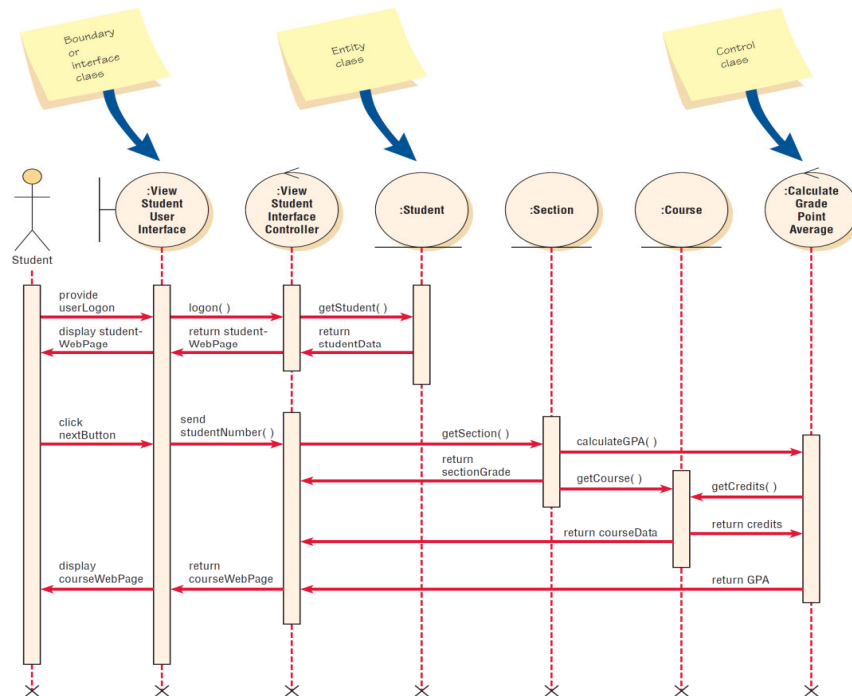


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10-6

10-6

A Sequence Diagram for Using Two Web Pages: One for Student Information, One for Course Information (Figure 10.15)



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## Create Sequence Diagrams

- Include the **actor** from the use case diagram
- Define one or more **interface classes** for each actor
- Each use case should have one **control class**
- Examine the use case to see what **entity classes** are required
- The sequence diagram may be modified when doing detailed design

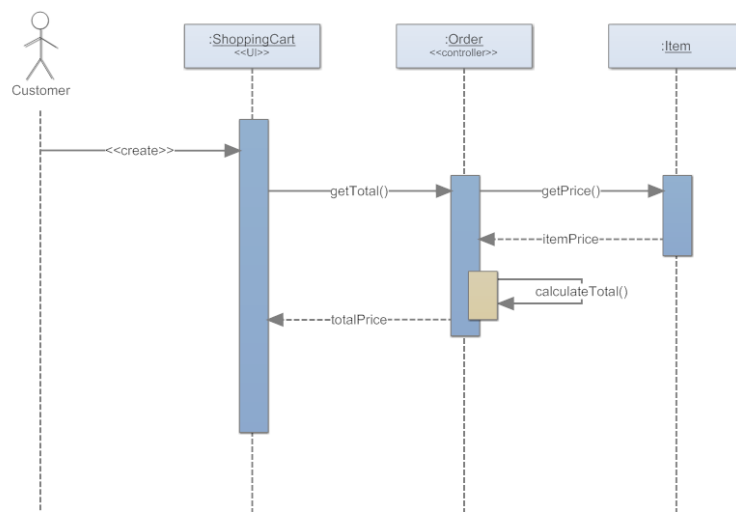
S1 MBTI

10-8

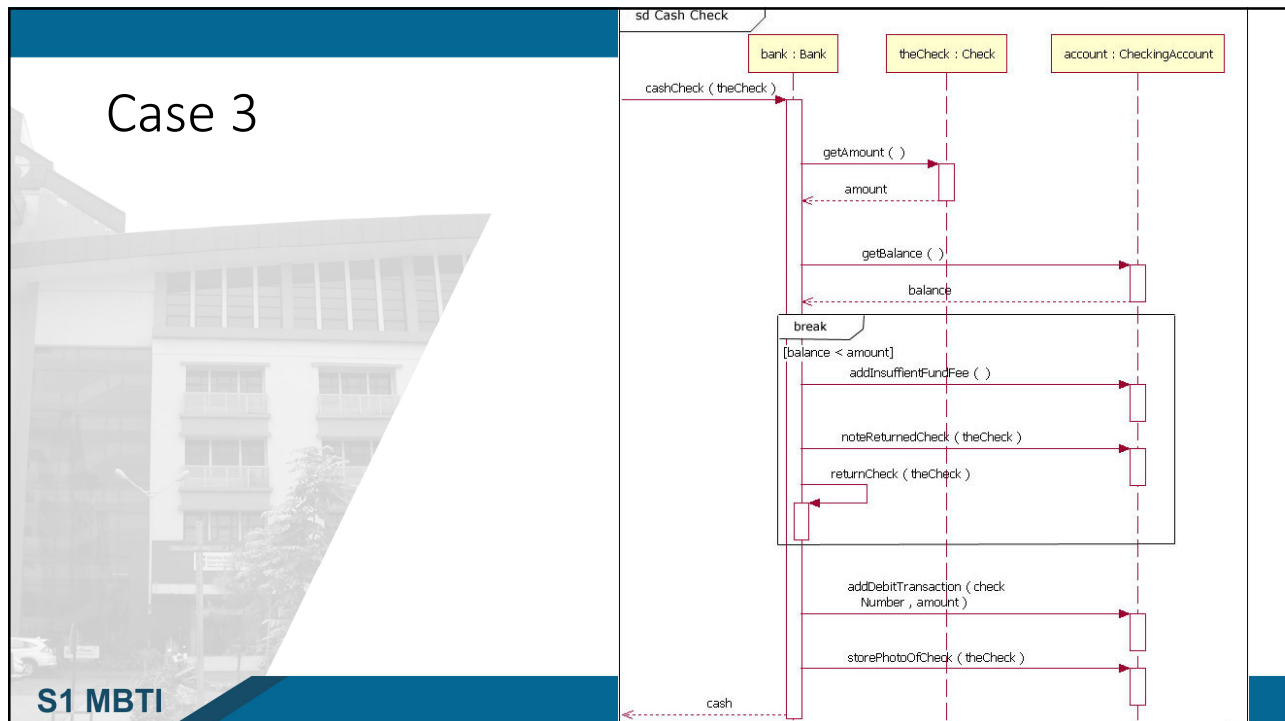
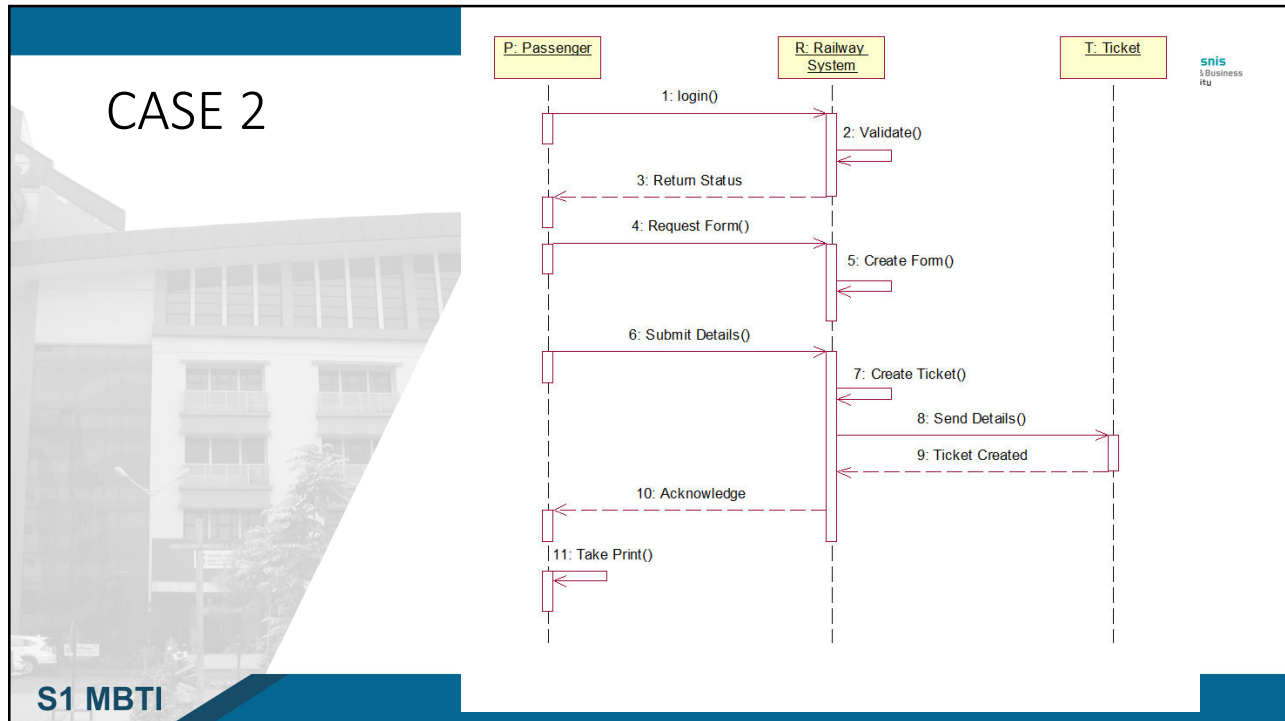
10-8

### CASE 1

Sequence Diagram: Shopping Cart



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## TUGAS KELOMPOK

- **Buatlah:**
  - Deskripsi singkat (berisi asumsi2) dari kasus yang Anda gunakan
  - Use Case Diagram
  - Use Case Scenario (semua use case)
  - Activity Diagram (dari use case yang dianggap kompleks)
  - Class Diagram
  - Sequence Diagram (semua use case)
- Gunakan Software UML Diagram
- Kumpulkan sebelum kelas dimulai (28 November 2017)