



Visual Paradigm
for **UML**

FROM DETAILED USE CASE TO UML SEQUENCE DIAGRAM

Mario G.C.A. Cimino

Department of Information Engineering

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1. Right click on the MaintainRental use case → *Open UseCase Details...*
2. Tab *Flow of events* → Insert the main flow. For alternative flows use the *add step* button:

Info | Use Case Notes | **Flow of Events** | Details | Requirements | Diagrams | Test Plan | References | Description

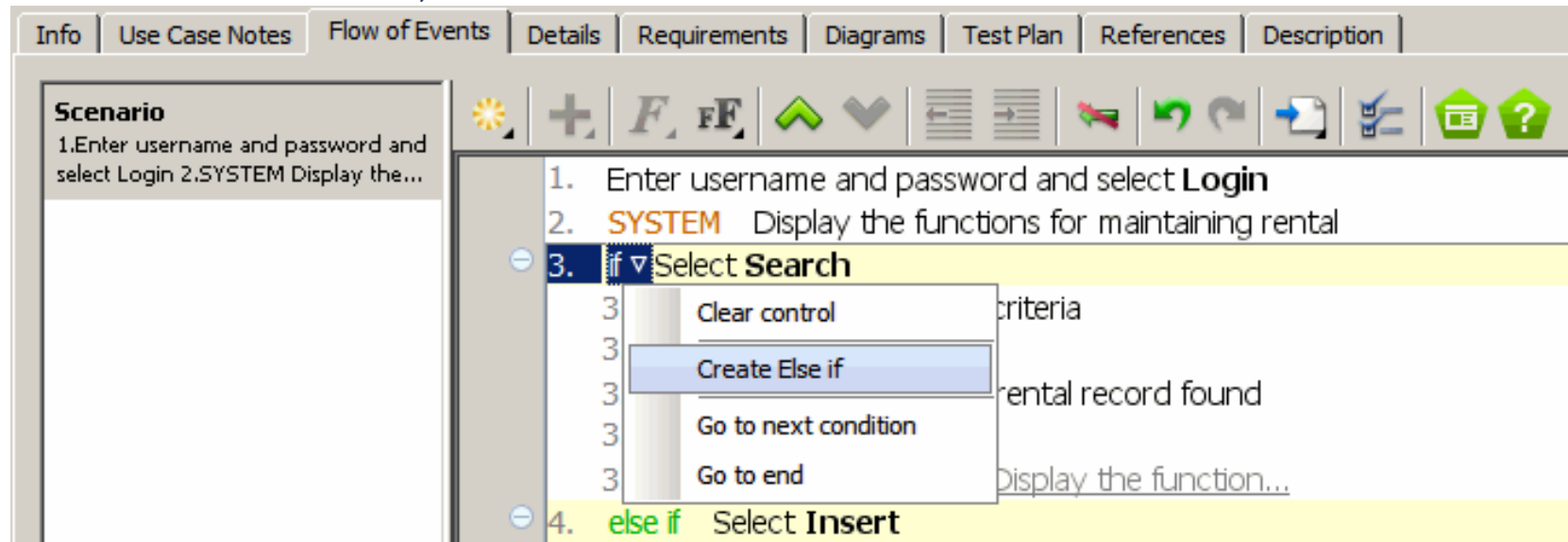
Scenario
1. Enter username and password and select Login 2. SYSTEM

Add step Enter username and password and select **Login**

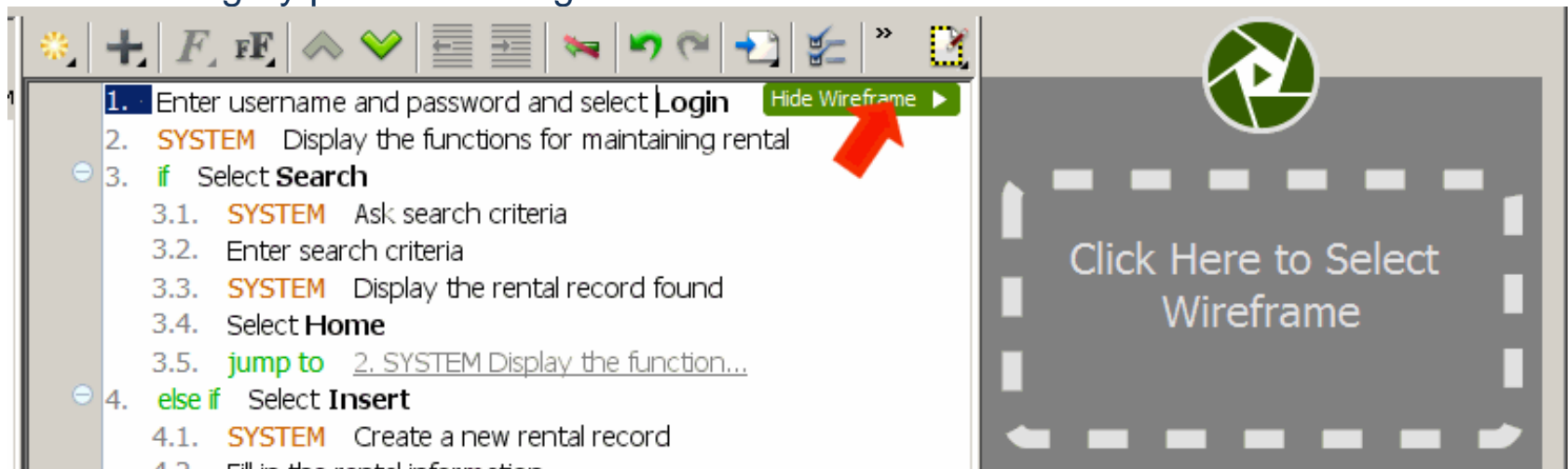
2. **SYSTEM** Display the functions for maintaining rental
3. Select a function
4. **if** Select **Search**
 - 4.1. **SYSTEM** Ask search criteria
 - 4.2. Enter search criteria
 - 4.3. **SYSTEM** Display the rental record found
 - 4.4. Select **Home**
 - 4.5. **jump to** 2. SYSTEM Display the function...
5. **else if** Select **Insert**
 - 5.1. **SYSTEM** Create a new rental record
 - 5.2. Fill in the rental information
 - 5.3. **SYSTEM** Ask confirmation of changes
 - 5.4. Confirm changes
 - 5.5. **jump to** 2. SYSTEM Display the function...
6. **else if** Select **Update**
 - 6.1. **SYSTEM** Ask the record **ID**
 - 6.2. Enter the record ID
 - 6.3. **SYSTEM** Display the rental record found
 - 6.4. Update the rental information in the record
 - 6.5. **SYSTEM** Ask confirmation of the changes
 - 6.6. Confirm changes
 - 6.7. **jump to** 2. SYSTEM Display the function...
7. **else if** Select **Logout**
 - 7.1. **jump to** 1. Enter username and p...**end if**

CLICK THE “+” ICON TO ADD THE ACTOR AT THE BEGIN OF EVENTS GENERATED BY THE USER: “STAFF ENTER USERNAME...”















3. To create an *Else* branch, hover mouse over an *If* branch and select *Create Else*.



4. To Create a Wireframe (screen flow of “mockups”, or “sketches” of the interface) move the mouse pointer over the green Wireframe button on the right hand side of the step. Click on it.
5. This shows a gray pane on the right hand side. Click on it to select a kind of wireframe to create



Flow of EventsDetailsRequirementsDiagramsTest PlanReferencesDescription



1. Enter username and password and select **Login**

2. **SYSTEM** Display the functions for maintaining rental records

3. Select a function

4. **if** Select **Search**

4.1. **SYSTEM** Ask search criteria

4.2. Enter search criteria

4.3. **SYSTEM** Display the rental record found

4.4. Select **Home**

4.5. **jump to** 2. **SYSTEM** Display the function...

5. **else if** Select **Insert**

5.1. **SYSTEM** Create a new rental record

5.2. Fill in the rental information

5.3. **SYSTEM** Ask confirmation of changes

5.4. Confirm changes

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6. **else if** Select **Update**

6.1. **SYSTEM** Ask the record **ID**

6.2. Enter the record ID

6.3. **SYSTEM** Display the rental record found

6.4. Update the rental information in the record

6.5. **SYSTEM** Ask confirmation of the changes

6.6. Confirm changes


6.7. **jump to** 2. **SYSTEM** Display the function...


7. **else if** Select **Logout**

7.1. **jump to** 1. Enter username and password

end if

Hide Wireframe >






SEARCH

INSERT

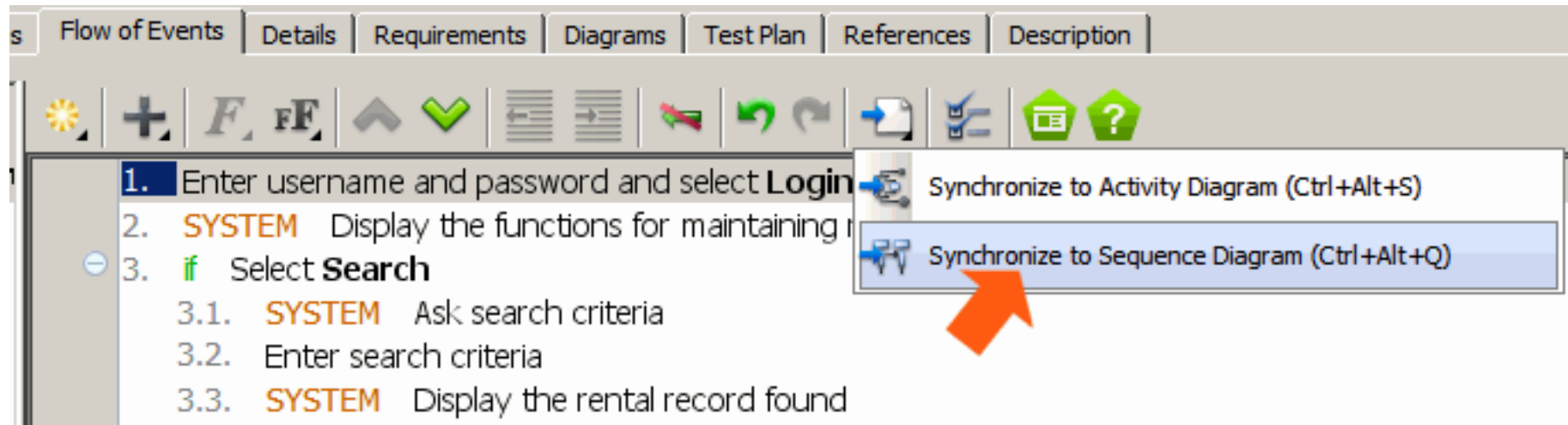
UPDATE

LOGOUT

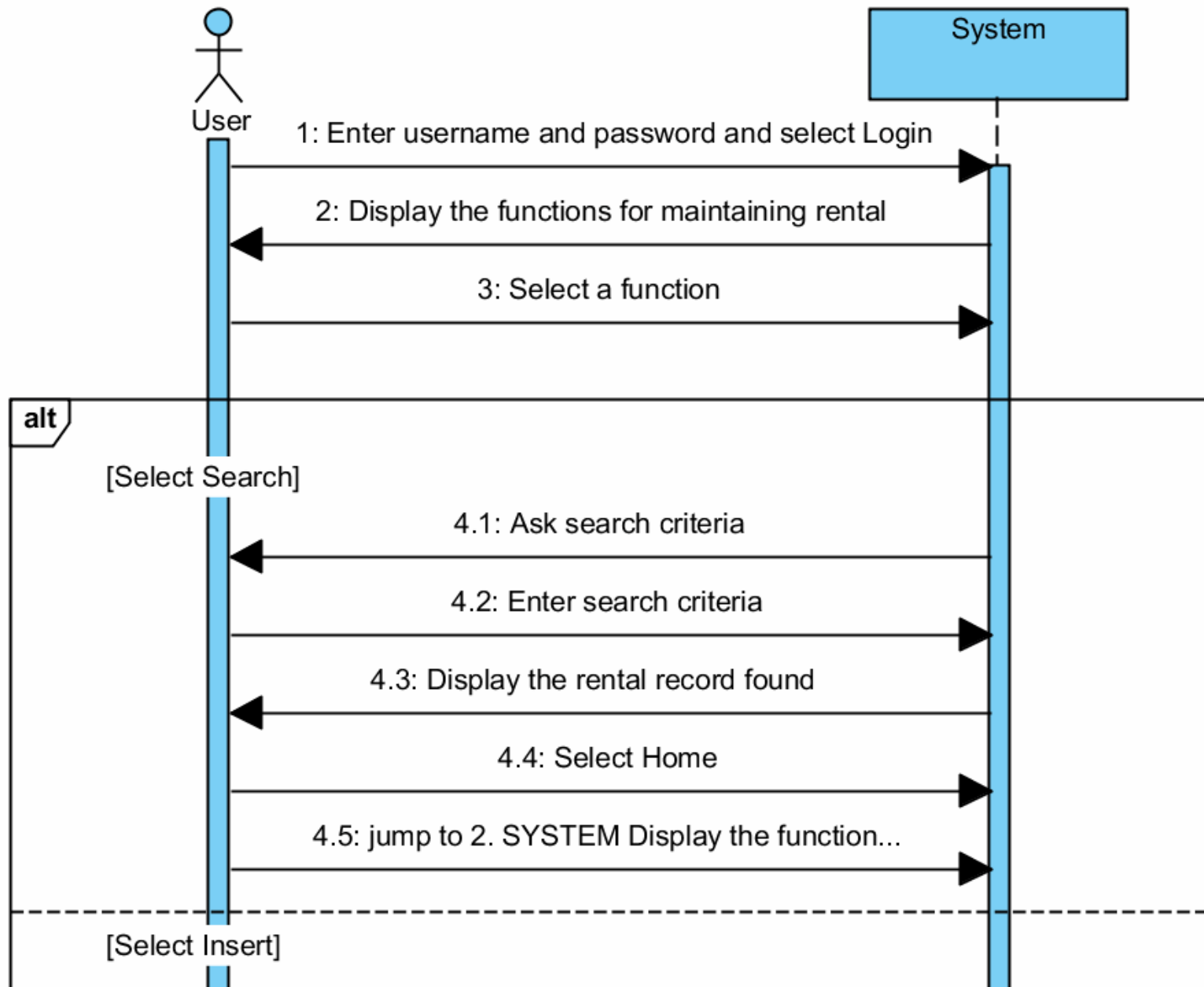


Sequence Diagram

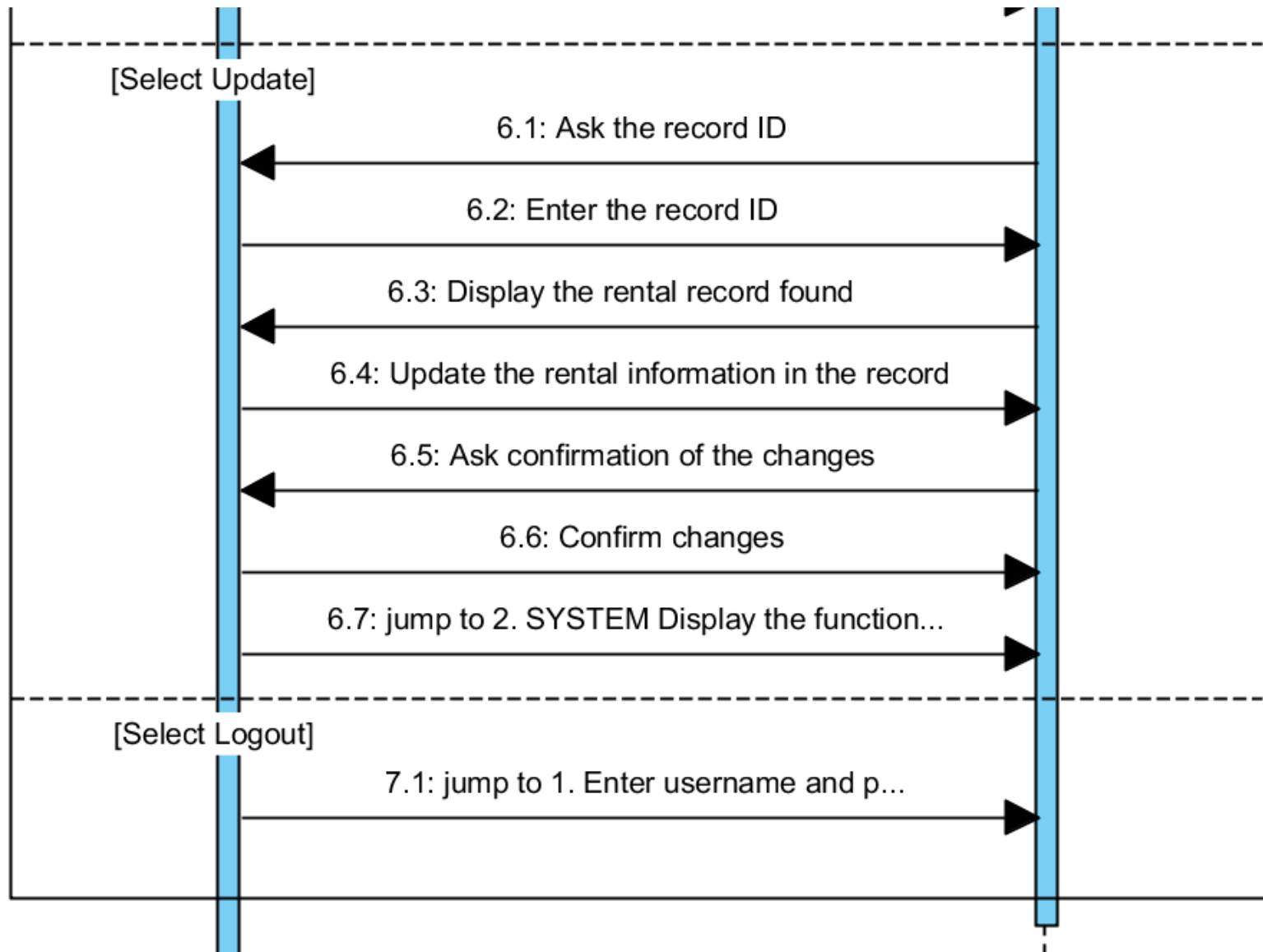
1. Create a sequence diagram related to the *MaintainRental* use case.
2. Tab *Flow of events* → button *Synchronize to Sequence Diagram*



3. The sequence diagram is created and shown.



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2001, J. Arlow, *UML and the Unified Process*, pages to read during the project:

- from page 63 (Section 4.4.1, only *flow of events*) to page 70 (Section 4.4.4)
- from page 83 (Section 5.3) to page 84; page 85 (Section 5.4), page 87 (Section 5.5)
- from page 105 (Section 7.2) to page 119 (Section 5.5.1)

2005, J. Arlow, *UML and the Unified Process II*, pages to read during the project:

- from page 244 (Section 12.6) to page 263 (Section 12.10.2)