

Object-Oriented Technology and UML

Teamwork 3

Activity Diagram Modeling

Objectives

- Further understand the role of the activity diagram
- Be more familiar with the general process of modeling class diagram
- Become more familiar with the use of UML tools such as Rational Rose, and master the representation of common modeling elements in activity diagram

Task 1 Activities in Campus Information Platform (Teamwork)

● Download Courseware

- After students login, they can download the courseware in the curriculum workspace
- When student log in, the system needs to verify the user's login information. If verified, the system will display the services available; if the authentication fails (the number of failures is less than 3), the system will return to the login page; If the authentication fails (the number of failures is greater than or equal to 3), the login fails
- When user see the services provided by the system, user can choose to download the required courseware. After the download is complete, user exits the system

● Please draw the activity diagram for above activities

Task 2 Activities in Campus Information Platform (Teamwork)

● Release scores

- After teachers login, they can submit the usual performance of students, they can submit the scores of final exam, they also can submit the scores of practical exercises
- After completing the submit of above scores, the total scores are submitted
- And then teacher need to submit a course summary
- After reviewing by academic secretary, the scores will be released

● Please draw the activity diagram for above activities

Task 3 Activities in Tennis Court Booking System (Teamwork)

●Booking

- Users can select tennis court online through APP or WeChat and send the booking request
- Tennis court could confirm the booking request
- After confirming the information, users will pay for the reservation online
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●Please draw the activity diagram for above activities

Steps of Activity Diagram Modeling

- Define the scope of the activity diagram
- Add the initial node and final node
- Add the activity node
- Add the decision node
- Identify parallel activities
- Add the control flows

Experiment requirements

- All tasks are required
- Team leader should submit your work before 7:00 PM on Saturday
- Requirements of report and email
 - Email: seuuml@qq.com
 - Email title: “UML Teamwork 3 Activity Diagram (Student ID Name, Student ID Name, Student ID Name...) case name”
- Attachment (Please do not compress)
 - Report name: “UML Teamwork 3 Activity Diagram (Student ID Name, Student ID Name, Student ID Name...) case name”