



University of Colombo School of Computing

SCS 1303 - Introduction to Software Engineering

Tutorial- Activity Diagram

Submission Requirements:

- Submit a **single PDF document** containing all five use case diagrams.(eg **2300001.pdf**)
 - Ensure each diagram is on a separate page and labeled with the corresponding question number.
 - Include your name and student ID on the first page of the document.
 - Diagrams must be created using **draw.io**.
 - Every actor/activity must be renamed as "**Actor/Activity name_your id number**" (**e.g.student_230001**).
 - Submit your assignment via the designated submission portal by the deadline.
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Scenario 1: Applying for a Library Card

1. Candidates interested in applying for a library card must complete an application form and submit it.
2. The application forms will be reviewed for completeness and accuracy.
3. Incorrectly filled or incomplete forms will be returned to the applicant for correction.
4. Successfully reviewed applications will be processed, and the library card will be issued.
5. Applicants must then attend a brief orientation session on library policies.
6. Once the orientation is completed, the library card will be activated, allowing the user to borrow books.

Scenario 2: Reserving a Study Room

1. Students wishing to reserve a study room must fill out an online reservation form.
2. The reservation system checks room availability for the requested date and time.
3. If no rooms are available, the student is notified and can choose a different time.
4. If a room is available, the reservation is confirmed, and a confirmation email is sent.
5. The student must check in at the library on the day of the reservation to access the room.
6. After checking in, the student can use the study room for the reserved time slot.

Scenario 3: Requesting a Book via Interlibrary Loan

1. Students requesting a book not available in their library must fill out an interlibrary loan request form.
2. The request is reviewed by the library staff to check eligibility and completeness.
 - **Decision:** Is the request complete and eligible?
 - **No:** Incomplete or ineligible requests are rejected, and the student is notified to correct and resubmit (Merge back to Step 1).
 - **Yes:** Proceed to the next step.
3. **Fork:** Eligible requests are forwarded to partner libraries for processing, and the student is notified of the request status.
4. **Join:** The student is notified once the book arrives and is available for pickup.
5. The student picks up the book from the library and confirms the loan details.

Scenario 4: Participating in a Library Workshop

1. Students interested in participating in a library workshop must register online by completing a registration form.
2. The registration form is checked for completeness and correctness.
 - **Decision:** Is the form complete and correct?
 - **No:** Incorrect or incomplete registration forms are rejected, and students are notified to resubmit (Merge back to Step 1).
 - **Yes:** Proceed to the next step.
3. Successfully registered students are added to the workshop attendee list.
4. **Fork:** Students must pay any applicable workshop fees, and they receive confirmation and further instructions for the workshop.
5. **Join:** After payment, students receive final confirmation and details for attending the workshop