Search Availability - Activity Diagram

Enter Dates / Criteria

Student enters search dates and room criteria in the Search Availability UI.

Display Progress

System shows search progress or processing status to the student.

Send Search Request

Search Availability UI sends searchAvailableRooms(criteria) to RoomSearchController.

Find Matching Rooms

RoomSearchController finds rooms matching the requested criteria using Room data.

Get Availability

RoomSearchController retrieves availability for matching roomIds and dates from AvailabilityCalendar.

Return Available Rooms + Times

System returns the list of available rooms and available time/date slots to the UI.

Show Available Rooms List

Search Availability UI displays the available rooms list to the student.