USE CASE SCENARIO

Schedule Site Visit

Brief Format:

After the Student has authenticated herself to the system and selected the “Schedule Site Visit” option, the system displays a list of available time slots and prompts the student to select an available time slot. The student selects an available slot, and the system verifies that the Faculty Advisor can visit that student’s site during the selected time slot.

Casual Format:

Main Success Scenario (Basic Flow): After the Student has authenticated herself and selected the “Schedule Site Visit” option, the system displays a list of time slots, including both available and currently committed slots, and prompts her to select an available time slot. The system verifies that the Student’s Faculty Advisor can visit the Student’s work site during the selected slot, and confirms that a visit is scheduled for that slot.

Alternative scenarios:

At any time, the Student cancels. The system terminates the use case without scheduling a visit.

There are no available time slots. The system displays a message and terminates the use case.
The faculty member cannot visit the student’s work site during the selected time slot. The system displays a message explaining this and returns to the basic flow. (Note: would it be preferable to display only time slots that are available to the particular student? How much would this add to the complexity of the system?)

The selected time slot is no longer available. The system displays a message explaining this and returns to the beginning of the basic flow.

I am sure that I’ve missed something.... (This is normal.)
**Fully Dressed Format**

**Scope:** System, Black Box

**Level:** User Goal (EBP)

**Primary actor:** Student

**Stakeholders and Interests:**

*Student* is interested in ability to schedule a site visit in such a way that no unauthorized person can cancel or reschedule the visit, and in receiving confirmation of the scheduled visit. The Student is also interested in having the system create a persistent record of the scheduled visit.

*Faculty Advisor* wants to be sure it is possible to make the scheduled visit – in particular, that there is sufficient travel time between scheduled visits in accordance with constraints set by the Advisor.

The *University* has an interest in the efficient use of faculty time and in preserving the privacy of student records.

The *System Administrator* wants data to be recorded correctly and want logs of all transactions.

The *Workplace Supervisor* wants make sure that the Student schedules the site at a convenient time for her.

**Pre-conditions:** The Student has authenticated herself to the system. Driving instructions to the Student’s work site are available in persistent store.
**Success Guarantees (post-conditions):** The time slot selected by the Student is reserved for a site visit to that Student. A persistent record of that reservation has been created. The updated site visit schedule for the Faculty Advisor conforms to the travel-time and other constraints for that Faculty Advisor.

**Minimal Guarantee (minimal post-condition):** A log of all transactions in the use case has been created. Any confidential information has been securely transmitted and is securely stored.

**Main Success Scenario (Basic Flow):**

1. The system verifies that the Student has not already scheduled a site visit.
2. The system displays a list of available and unavailable time slots for the next site visit. (For unavailable slots, it displays the name of the Student who has reserved the slot.)
3. The system prompts the Student to select a time slot.
4. The Student selects a time slot.
5. The Student submits a request to schedule a visit in the selected time slot.
6. The system validates that a site visit at the selected time conforms to the Faculty Advisor’s itinerary and other constraints.
7. The system notifies the Student that it is possible to schedule a visit during the selected time slot.
8. The system requests commitment from the student to schedule the visit.
9. The student confirms that she wishes to schedule the visit.
10. The system verifies that the time slot is still available and creates a persistent record reserving the time slot for a site visit to the Student.
11. The system confirms to the Student that the site visit is scheduled for the selected time.
Alternative Scenarios:

*a. At any time, the system fails:
   Since this use case requires minimal data entry, there is no need to recover information in a later session.

1a. The student has already scheduled a site visit:
   1. Notify the Student that she has already scheduled a site visit (including date and time).
   2. Ask the student if she wants to cancel without rescheduling, reschedule, or keep the currently scheduled visit.
      a. The Student chooses to cancel the currently scheduled visit without rescheduling.
         1. The system terminates the use case and starts Cancel Site Visit.
      b. The Student chooses to reschedule the site visit.
         1. The system terminates the use case and starts Reschedule Site Visit.
      c. The Student chooses to retain the currently scheduled site visit.
         1. The system confirms that the site visit has been retained.
         2. The use case terminates.

1b. The system is unable to verify that the Student has not already scheduled a site visit:
   1. The system displays a message explaining this situation and asks the student whether she wishes to continue scheduling a visit.
      a. The student chooses to continue:
         1. The system continues with the basic flow.
      b. The student chooses to cancel:
         1. The system terminates the use case.

2a. There are no time slots available:
1. The system informs the Student of this situation, advises the Student to send an e-mail to her Faculty Advisor, and terminates the use case.

2b. *The Faculty Advisor has not yet allocated time slots:*
   1. The system informs the student of the situation and terminates the use case.

2c. *The system is unable to retrieve the Faculty Advisor’s time slots from persistent store.*
   1. The system displays an explanatory message and terminates the use case.

5a. *The Student submits a request without first selecting a time slot:*
   1. The system notifies the Student of this error.
   2. The system returns to step 2 of the basic flow.

6a. *Scheduling a site visit at the selected time would violate a constraint of the Faculty Advisor:*
   1. The system notifies the Student of this error.
   2. The system returns to step 2 of the basic flow.

10a. *The selected time slot is no longer available:*
10b. *The system fails to create a persistent record:*
    1. The system notifies the Student of this error.
    2. The system returns to step 2 of the basic flow.

8a. *The system fails after the persistent record was created but before confirmation to the Student.*
    Further exploration is needed.

**Special Requirements:** This use case will normally be run over the Internet on a Java-enabled web browser.

**Technology and Data Variations:** None apparent at this time.