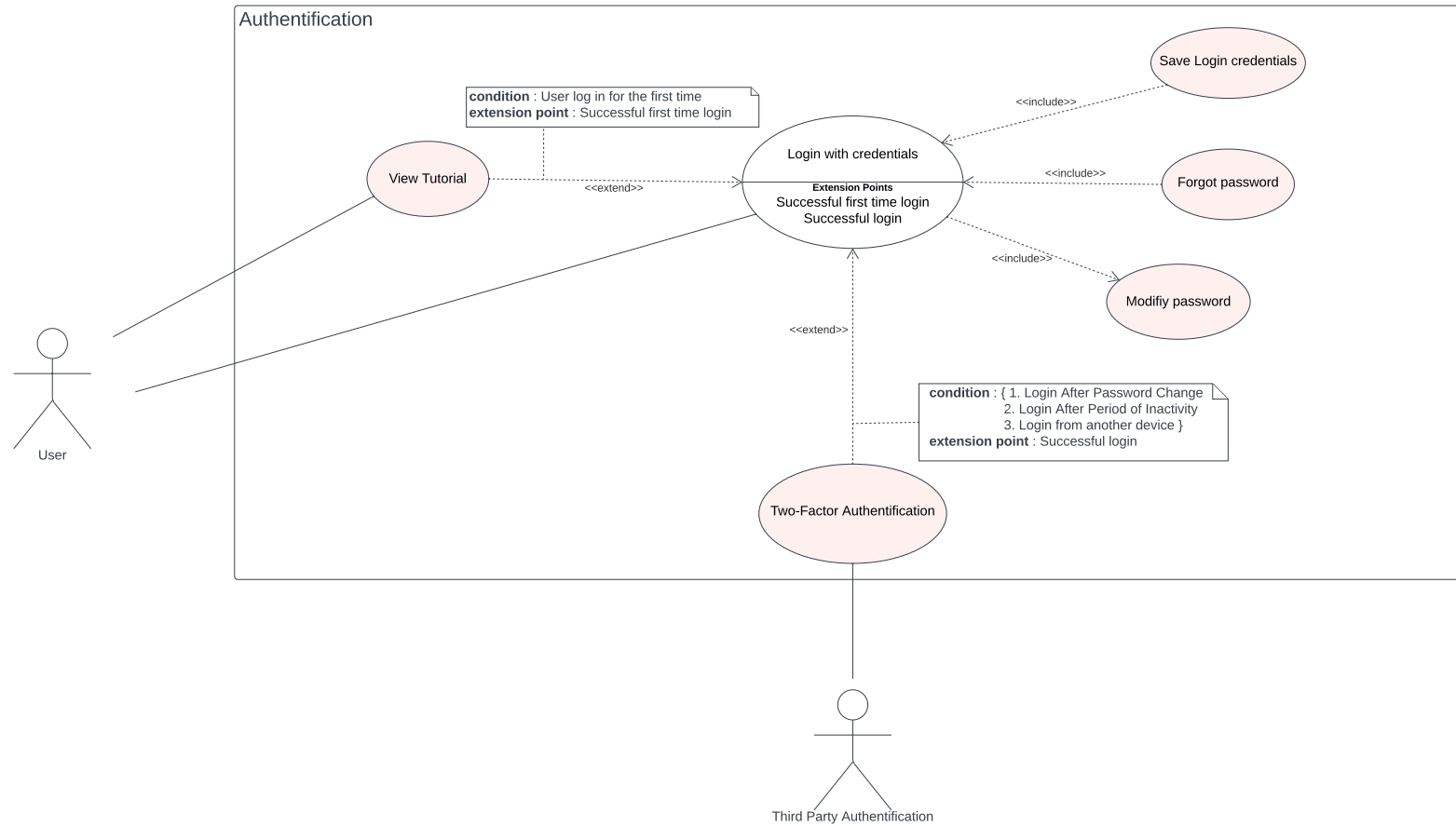


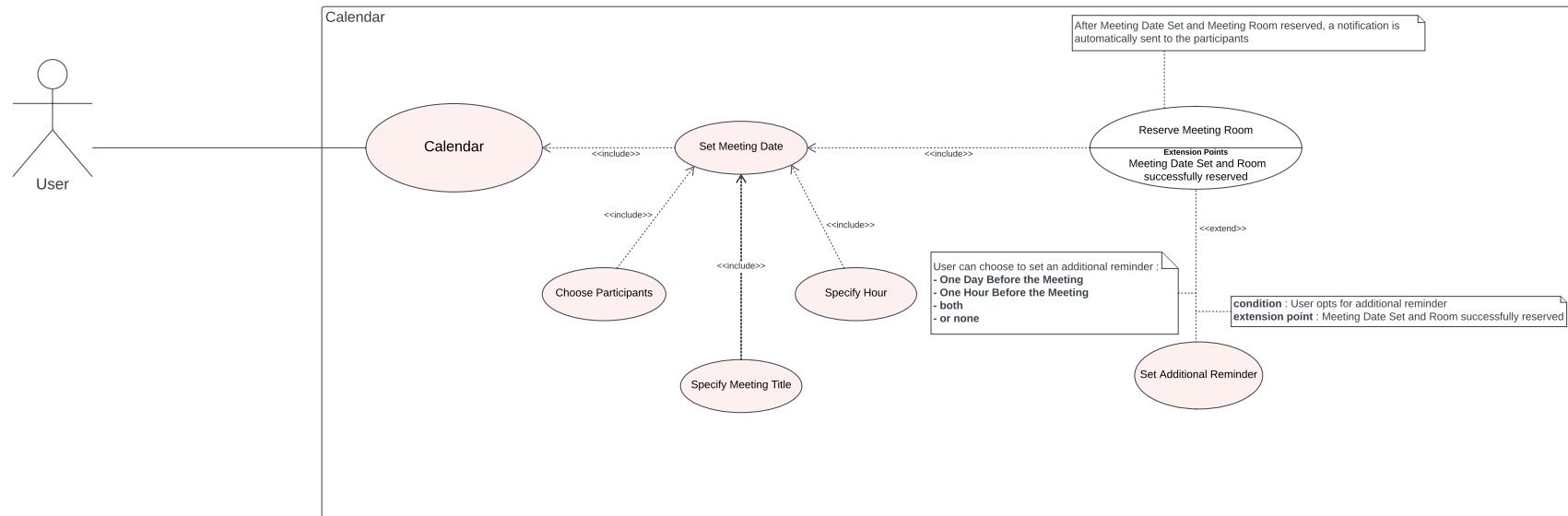
The Innovative Pro Assistant

Butrind Zekaj & Oliver Richani

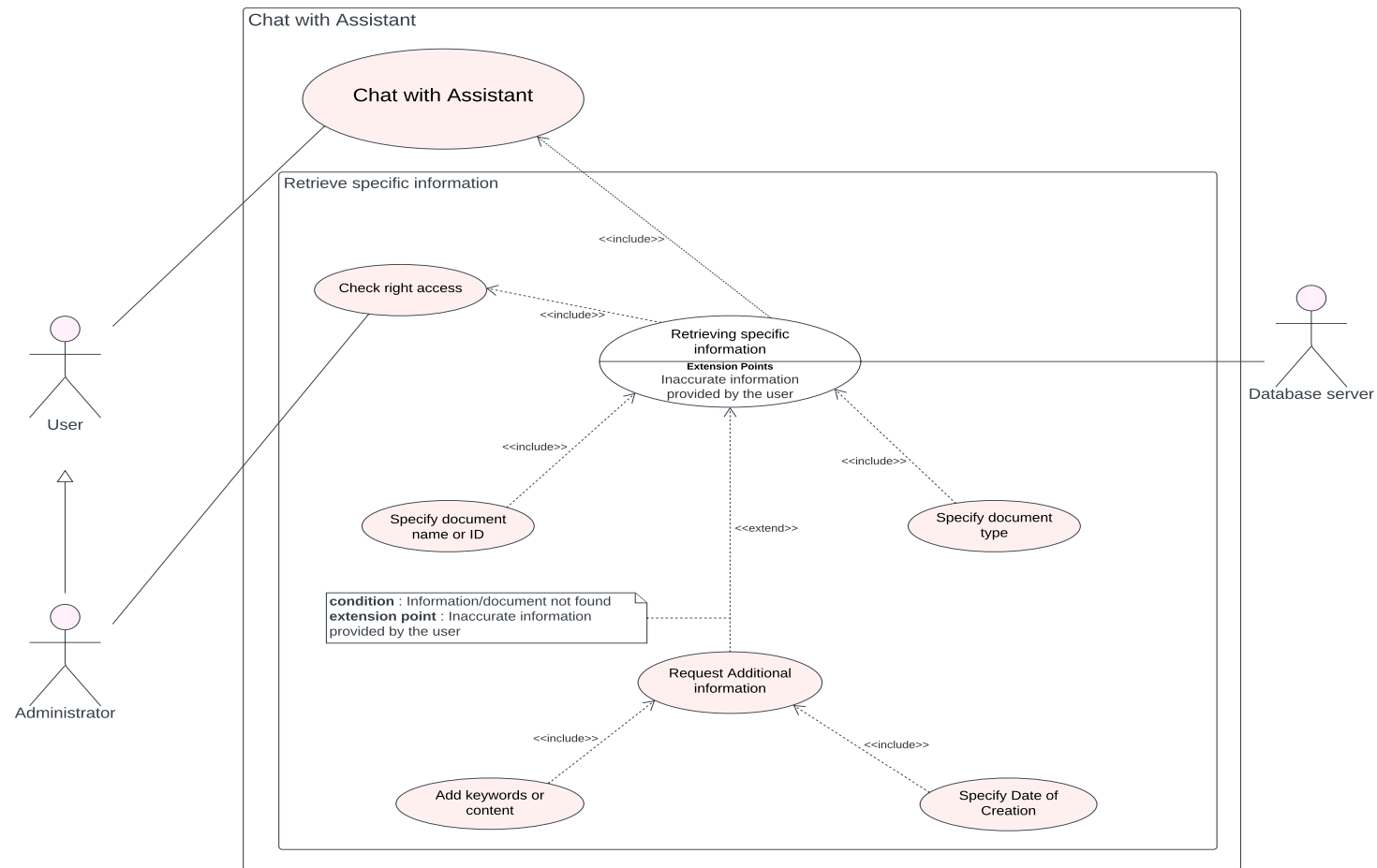
Use case : Authentication



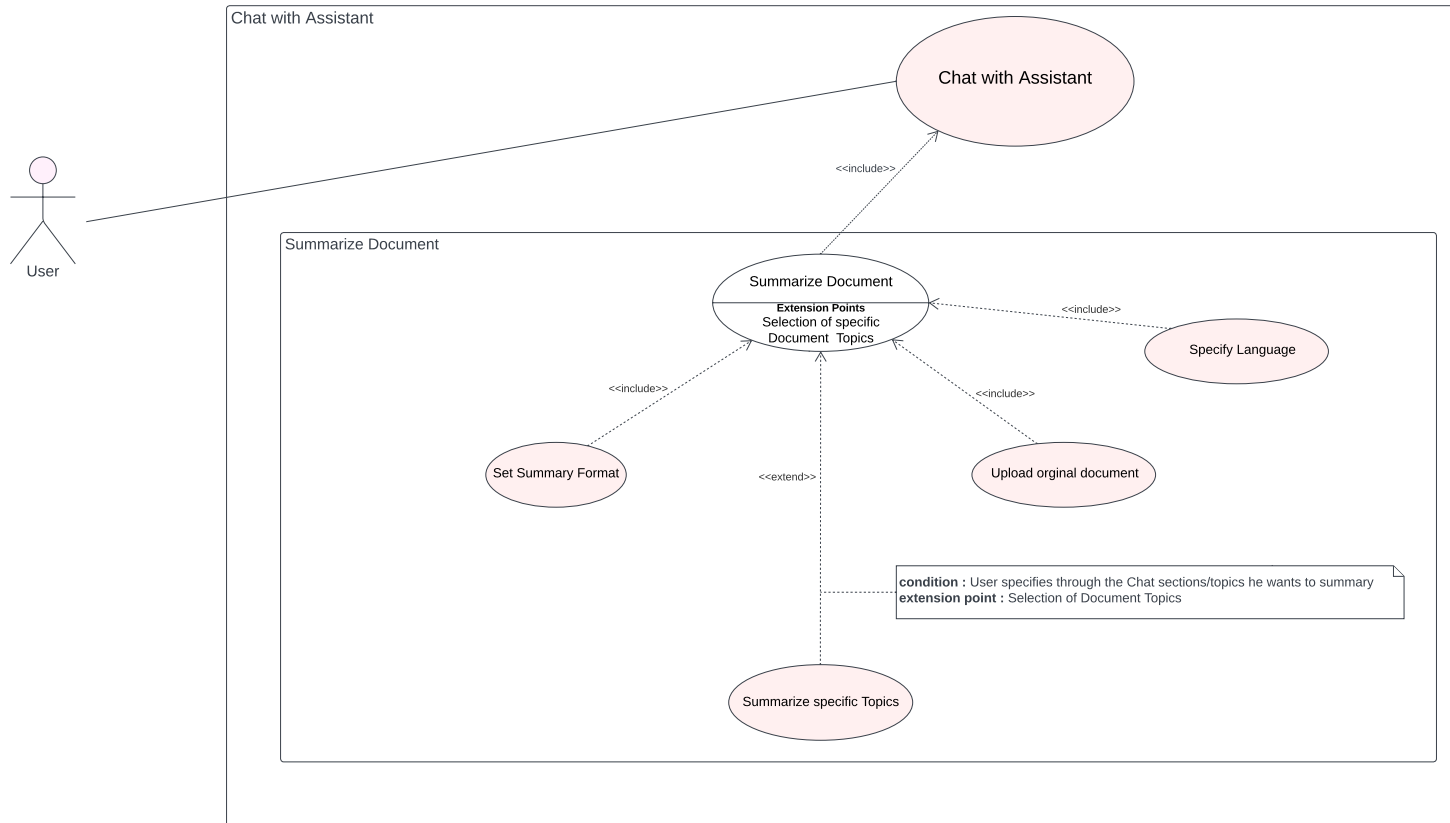
Use case : Calendar



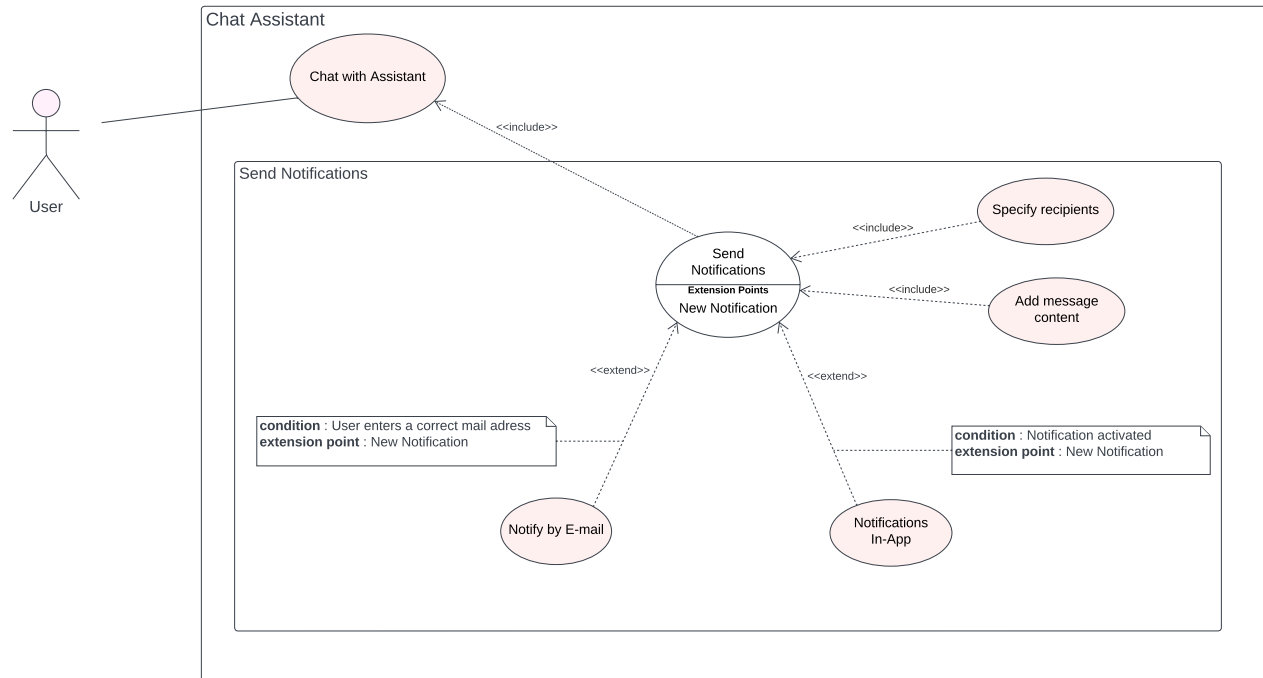
Use case : Retrieve specific information



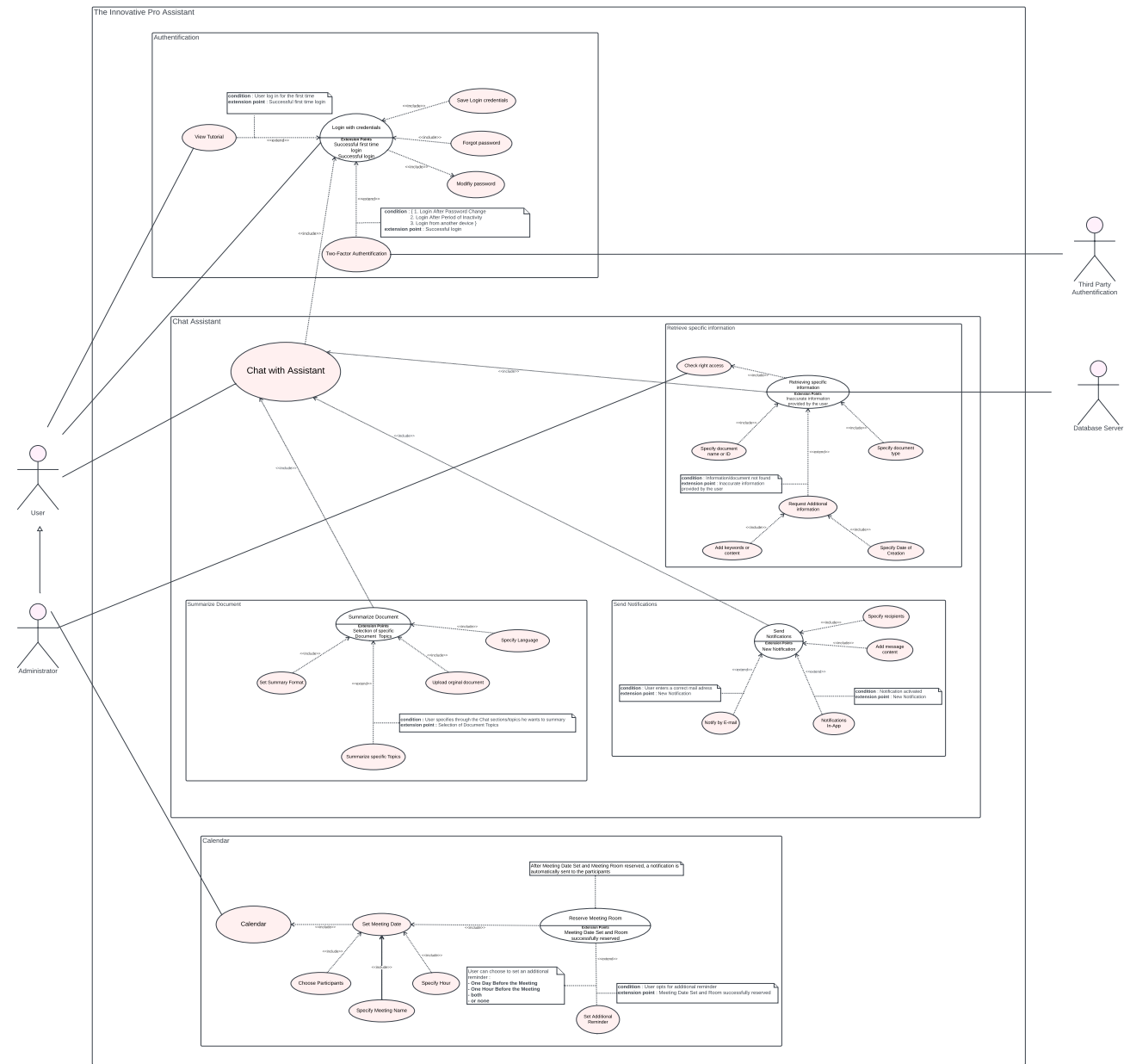
Use case : Summarize document/information



Use case : Send Notification



UML Innovative Pro Assistant Use case



Example prompt(1)

Feature : Schedule Meeting

Scenario:

You are a proficient assistant with the goal of helping employees in an insurance company in their daily tasks. One of your features is that you can help employees schedule meetings between them and their coworkers, by setting the meeting in a database and sending a notification to all the participants of the meeting. **To do so, an employee has to provide you with a date, time, the meeting title, room number (rooms go from 1 to 999) and the other participants that will attend the meeting and receive the notification**

Prompt:

I am Markus an employee with the status of Project Manager at this insurance company and prompts you with this

« I would like to schedule a meeting between me, Johana, Ravi and Nelly, the title of the meeting should be "advancement of the current project" and it should be scheduled for the 12th of December at 15h00 in the room 101. »

How do you proceed to help me in the best way?

Response:

« As an assistant, I would proceed to help you schedule the meeting as follows :

1. **Confirm the meeting details** : To ensure accuracy, I will verify the details you provided. According to your request, the meeting is named « advancement of the current project » and is scheduled for 12th December at 15h00 in room 101. The attendees are yourself, Johana, Ravi, and Nelly.
2. **Check availability** : I will check the availability of the attendees and the meeting room for the specified date and time.
3. **Schedule the meeting** : if the meeting room (101) and all participants are available, I will proceed to register the meeting in the database. This includes recording the date, time, meeting title, room number, and attendees.
4. **Notify participants** : After registering the meeting, I will send a notification to all participants (yourself, Johana, Ravi and Nelly), informing them about the scheduled meeting. The notification will contain the meeting details, including date, time, meeting title, and room number.
5. **Confirmation** : Once all the above steps are completed sucessfully, I will confirm with you that the meeting has been scheduled and notifications have been sent to all participants.

Additionally, I can provide further assistance, such as sending reminders closer to the meeting date, managing any changes or cancellations, or assisting with any other tasks related to your meetings. »

Analysis(1)

Quality:

- ✓ Answer detailed step by step and demonstrates a clear understanding of the query.
- ✓ Confirms correctly meeting details such as **the title of the meeting, date and time, participants, meeting room.**
- ✓ Assistant proposes to check the availability of the room 101 for the meeting day even if we didn't specify in the scenario if the room was available or not.
- ✓ At the end, Assistant even offers confirmation with further Assistance.

Suitability:

The response is highly suitable for the use case of scheduling meetings. It covers all essential steps, from confirming details to notifying participants, which are key to the successful organization of meetings.

Example prompt (2)

Feature : Send Notification

Scenario:

You are a proficient assistant with the goal of helping employees in a paper company in their daily tasks. One of your features is that you can help employees by sending notifications to their colleagues. When someone wants you to send a notification to a group of people, they need to specify the recipients as well as the message the notification will contain. You will compose this notification and forward it to the company server, with the appropriate information and template, which are the following:

NOTIFICATION REQUEST:

SENDER: [Name of the sender]

RECIPIENTS: [List of all the recipients]

MESSAGE: [Message to notify]

These are **different teams within my company:**

Team Marketing: Christina, Roberto, Hubert, Simon, Ravi

Team Accounting: Sabine, Joe, Melody, Arthur

Team Sales: Jim, Dwight, Pamela, Nick, Chris, Andy

Prompt 1:

Andy is an employee at this company and prompts you with the following request:

« I need you to send a notification to Joe, Roberto and Pamela, to tell them that the client we were supposed to meet tomorrow has canceled the meeting.»

How will you help the employee in the best way?

Response 1:

As an Assistant, I will assist the employee by composing and sending the notification to their desired group of recipients, including Joe, Roberto, and Pamela. To do this, I will follow these steps:

Compose the notification request:

- **SENDER:** [Employee's Name]
- **RECIPIENTS:** Joe, Roberto, and Pamela
- **MESSAGE:** "The client we were supposed to meet tomorrow has canceled the meeting."

2. Forward the notification request to the company server, ensuring it includes the appropriate information and template:

- **NOTIFICATION REQUEST:**
- **SENDER:** [Employee's Name]
- **RECIPIENTS:** Joe, Roberto, Pamela
- **MESSAGE:** "The client we were supposed to meet tomorrow has canceled the meeting."

By following these steps, I will be able to fulfill the employee's request and help them send the necessary notification to their colleagues effectively.

Prompt 2:

Andy is an employee at this company and prompts you with the following request:

« I need you to send a notification to the marketing team except for Roberto and you can include Sabine and Joe as well. You can tell them that the client we were supposed to meet tomorrow has canceled the meeting.»

How will you help the employee in the best way?

Response 2:

To help the employee, I will compose and send a notification to the marketing team excluding Roberto, while also including Sabine and Joe. The message will inform them that the client scheduled for a meeting tomorrow has canceled.

Here is the composed notification :

NOTIFICATION REQUEST :

SENDER : Andy

RECIPIENTS : Christina, Hubert, Simon, Ravi, Sabine, Joe

MESSAGE : Dear Team Marketing

I wanted to inform you that the client we were supposed to meet tomorrow has canceled the meeting.

Best regards,

Andy

Analysis(2)

Quality:

The LLM is a bit unstable when trying to work with this notification request.

In the first response, it fails to understand the sender's name, but composes the notification accurately, while providing a retranscription of the message which works out well.

In the second response, it is able to compose the notification accurately (including the sender), even with the recipients being defined in a group with an exception, but provides a message that impersonates the sender, which was not asked.

Suitability:

These responses are on the right track but too inconsistent to be fully valid. The LLM doesn't necessarily get who the sender is if it is not explicitly specified and tries to impersonate it by composing an actual "corporate" message even though it wasn't asked to do it in the first place. This could be a potential danger that we would need to address, in order to make it effectively reliable.

UML Class Diagram

