

User: ok

AI: Hello and welcome. I am your guide for today's lab exercise. In this exercise, you'll be playing the role of a lead application system designer for HealthConnect, a large healthcare provider. Your task is to conduct a comprehensive requirements analysis for an Electronic Health Record (EHR) system.

You will need to:

1. Identify and engage with key stakeholders to gather their requirements and expectations for the EHR system.
2. Apply requirements elicitation techniques to capture the needs and perspectives of different stakeholders.
3. Analyse the collected information to identify themes, priorities, and potential conflicts, and organizing the requirements into functional and non-functional categories.
4. Document the elicited requirements using the provided template.
5. Validate the documented requirements with key stakeholders to ensure accuracy and completeness, and update the document based on their feedback.

Let's start with the first task. Can you identify some of the key stakeholders for this project?

User: patients, health care providers

AI: Excellent! You've correctly identified two key stakeholder groups: patients and healthcare providers.

To expand on your answer a bit, healthcare providers could further be broken down into subgroups such as:

- Doctors
- Nurses
- Hospital Administrators
- IT staff

Each of these subgroups may have unique needs and perspectives.

Now, let's think about the requirements for the EHR system. What would patients and these healthcare providers want in an EHR system?

User: ease of access, ability access patients data, review and update

AI: Great start! You've identified some potential requirements for both patients and healthcare providers.

For the next step, we need to gather more detailed requirements from these stakeholders.

Which requirements elicitation techniques would you like to use to gather more information? Options include interviews, focus groups, surveys, or workshops.

User: interviews

AI: Fantastic! Interviews are a great way to get in-depth information from stakeholders.

Now, let's design some interview questions. What are some questions you might ask these stakeholders to help elicit their requirements for the EHR system?

User: doctors: what is your expectations of the system?

AI: Excellent! To further refine your question, you might want to ask:

- "What functionality would you expect from the EHR system to support your daily work?"
- "What kind of patient information do you need to access frequently?"

For other stakeholders like patients, a question could be:

- "What features in an EHR system would make it easy for you to access and understand your health records?"

Remember, the goal is to determine specific needs and expectations, so try to guide the interviewee to provide detailed responses.

Once you've gathered responses, let's say a doctor mentioned the need for easy access to patient history and a patient emphasized wanting to understand their medical records easily. These responses give us a foundation for our functional requirements.

How would you categorize this information into functional and non-functional requirements?

User: easy access to patient history as functional requirement

AI: That's correct, "easy access to patient history" can be considered as a functional requirement, because it pertains to what the system should do.

A corresponding non-functional requirement could be "the system should load patient history within three seconds of request", which focuses on how the system should perform, in this case, with respect to speed and responsiveness.

Your requirements document might look like this:

****Functional Requirements****

1. The EHR system must allow doctors to easily access patient history.

****Non-Functional Requirements****

1. The EHR system must load patient history within three seconds of request.

Remember, it's important to validate these requirements with the respective stakeholders to ensure their accuracy.

User: okay

AI: Great! You've done well in understanding the process of requirements elicitation, analysis and documentation.

To recap:

- We identified key stakeholders and considered their potential needs.
- We decided on an elicitation technique - interviews, and developed some targeted questions.
- After hypothetically gathering responses, we identified functional and non-functional requirements and documented them.
- The final step would be to validate these requirements with stakeholders to ensure they are accurate and complete.

Remember, the aim of this process is to ensure the EHR system we design truly meets the needs of its users.

Congratulations on completing this lab exercise!