

**User:** okay

**AI:** Great! Let's get started.

As the lead application system designer for EduLink's Learning Management System (LMS), your first task is to identify the stakeholders for this project.

Stakeholders are individuals or groups who have an interest in the project, are affected by the project, or can influence its outcome.

Can you start by listing who you think the stakeholders might be in this project?

**User:** educators, students, developers

**AI:** Excellent start! You've identified three key stakeholder groups: educators, students, and developers.

Can you think of any other stakeholders who might be involved in or affected by the development of the Learning Management System (LMS)? Consider the broader context of the project.

**User:** schools and university

**AI:** Good thinking! Schools and universities are indeed important stakeholders as they will be using the Learning Management System (LMS) to deliver their courses.

Can you think of any other stakeholders? Consider who else might interact with or be impacted by the LMS.

**User:** education providers, investors

**AI:** Great! You've identified education providers and investors as additional stakeholders. Education providers will be using the LMS to deliver their courses and investors will be interested in the financial and strategic success of the project.

Now, let's move on to the next task. For each stakeholder group you've identified, can you outline what you think their requirements might be for the LMS? Let's start with educators. What requirements might they have?

**User:** ease of access, grade student's work online, upload or update education materials

**AI:** Excellent! You've identified some key requirements for educators:

- Ease of access to the LMS
- Ability to grade student's work online
- Capability to upload or update educational materials

Now, let's consider the students. What requirements might they have for the LMS?

**User:** ease of access, ability to view the course materials and view grades

**AI:** Good job! You've identified some important requirements for students:

- Ease of access to the LMS
- Ability to view course materials
- Ability to view their grades

Next, let's think about the developers. What requirements might they have for the LMS?

**User:** well developed story or use cases to work or start developing

**AI:** Well done! For developers, having well-developed user stories or use cases is indeed crucial. This helps them understand the functionality that the system needs to provide and how it should behave.

- Well-developed user stories or use cases to guide development

Now, let's consider the schools and universities. What requirements might they have for the LMS?

**User:** ease of access, monitor and control?

**AI:** Absolutely! Schools and universities will need:

- Ease of access to the LMS
- Ability to monitor and control the system to some extent, such as managing users, courses, and perhaps even system settings

Finally, let's think about the education providers and investors. What requirements might they have for the LMS?

**User:** Ease of access to the LMS

Ability to monitor and control the system to some extent, such as managing users, courses, and perhaps even system settings for education providers and for investors, sustainable business

**AI:** Great! For education providers, similar to schools and universities, they would need:

- Ease of access to the LMS
- Ability to monitor and control the system to some extent, such as managing users, courses, and perhaps even system settings

For investors, they would be interested in:

- Sustainable business model and return on investment

Now that we've identified the stakeholders and their requirements, let's move on to the next task. We need to analyse the scenario and evaluate the suitability of different requirements gathering techniques.

Can you list some requirements gathering techniques that you are aware of?

**User:** I am not aware of any

**AI:** No worries at all. Requirements gathering techniques are methods used to understand the needs of stakeholders in a project. Here are a few common ones:

1. Interviews: One-on-one conversations with stakeholders to understand their needs and expectations.
2. Surveys or Questionnaires: These are useful when you need to gather information from a large group of people.
3. Workshops: These are interactive sessions where a group of stakeholders work together to identify requirements.
4. Observation: Watching users in their natural environment to understand their needs and challenges.
5. Document Analysis: Reviewing existing documentation to understand current processes and identify requirements.

Can you think about which of these techniques might be suitable for each stakeholder group and why? Let's start with educators.

**User:** interviews/surveys for students, observations/workshops and document analysis for others

**AI:** Great start! You've suggested:

- Interviews or surveys for students: This can help gather information about their needs and preferences for the LMS.
- Observation, workshops, and document analysis for other stakeholders: These techniques can help understand their needs, challenges, and current processes.

Now, let's delve a bit deeper. Why do you think interviews or surveys would be suitable for students? And why do you think observation, workshops, and document analysis would be suitable for the other stakeholders?

**User:** because its easier to collect quantitative data for the students while it is crucial to collect qualitative data from the others

**AI:** That's a very insightful observation!

- Interviews and surveys can indeed be effective for gathering quantitative data from a large group like students. They can provide insights into the preferences, needs, and challenges of the student population.

- On the other hand, observation, workshops, and document analysis can provide qualitative data from other stakeholders. These methods can help understand the context, processes, and specific needs of educators, developers, schools, universities, education providers, and investors.

Now, let's consider the challenges and constraints specific to the education domain, such as accessibility requirements and the need to support diverse learning styles. How might these factors influence the requirements for the LMS and the techniques used to gather these requirements?

**User:** LMS must be accessible to students with disabilities and also those from low income family, should work on low internet bandwidth

**AI:** Absolutely! Accessibility is a crucial requirement for an LMS. The system should be designed in a way that it is accessible to all students, including those with disabilities and those from low-income families who might not have access to high-speed internet. This means the LMS should:

- Be compatible with assistive technologies
- Have a user-friendly interface that is easy to navigate
- Work efficiently even on low internet bandwidth

These requirements can influence the techniques used to gather requirements. For example, when interviewing students or conducting surveys, questions about accessibility needs and internet access should be included. Similarly, during observation or workshops, attention should be paid to how different users interact with the system and what challenges they might face due to accessibility issues or low internet bandwidth.

Now, based on these considerations, can you propose which requirements gathering technique would be best suited to each stakeholder group?

**User:** students-surveys educators-workshops and document analysis

**AI:** That's a well-considered approach!

- Surveys for students: This method can reach a large number of students and gather data on their needs, preferences, and challenges, including accessibility and internet bandwidth issues.

- Workshops and document analysis for educators: Workshops can provide a collaborative environment to understand educators' needs and challenges in depth. Document analysis can help understand the current teaching processes and identify areas for improvement in the LMS.

Now, let's consider the other stakeholders. What requirements gathering techniques might be best suited for developers, schools and universities, education providers, and investors?

**User:** developers- user story and document analysis, schools and universities, educators- observation and workshop, investor-interview

**AI:** Excellent! You've proposed:

- User stories and document analysis for developers: User stories can help developers understand the functionality that the system needs to provide, and document analysis can provide insights into the current processes and systems.

- Observation and workshops for schools, universities, and education providers: These techniques can provide insights into how these stakeholders interact with the system and what their specific needs and challenges are.

- Interviews for investors: This can provide a deeper understanding of the investors' expectations and requirements for the project.

You've done a great job of analysing the requirements-gathering scenarios and proposing appropriate techniques for each stakeholder group.

Congratulations on completing this exercise! You've demonstrated a strong understanding of stakeholder identification, requirements analysis, and the selection of appropriate requirements gathering techniques. This will be invaluable as you continue your work as a system designer.