

## Week 4 Seminar – Scope and stakeholders

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### Task 1. Identify the scope of your topic

- Search on the web for products similar to your topic and gain some understanding of the domain.
- Think of the following aspects and ask questions from the primary stakeholder who hires you to engineer a system (Consider the seminar lead as the primary stakeholder)
  - Nature of the business, focusing on stakeholders' geographic distribution - International/local/in a specific area
  - Nature of business, focusing on the types of transactions - Platform (like Uber or eBay) vs specific brand, business-to-business vs business-to-customer, customer-to-customer.
  - User platform(s) - Web app/mobile app/desktop app/IoT system.
  - System platform - Hosted on the web/download and install/custom installation on specific devices/installed on cloud/plugin or extension to an existing system/install on an available infrastructure.
  - Data requirements - database is required or not? In the case of using database, will use a new database/use available database/database on cloud.
  - Need for advanced features using external APIs - email verifications. Phone verifications, payments, and location-based services.
  - Who will be directly using the system and who will be indirectly using the system (e.g. via the direct users)?

### Task 2. Stakeholder analysis

- Analyse the information you gathered for task 1 and identify the stakeholders in the product's context. Draw an onion diagram indicating the direct users of the product and other stakeholders.

### Task 3. Requirements elicitation

- Identify proper requirements elicitation method(s) for different types of users.
- Design questions for the interviews or questionnaires to gather requirements from users.
- You can use an AI tool like ChatGPT to assign user roles and ask the prepared questions to gather requirements.
- Refer to the example below.

**Prompt:**

I'm about to engineer an online shopping system for a local shoe shop. The shop manager can upload the new shoe models and their details to the system and the customers can view the new models and buy online.

**Response:**

That sounds like a great project! Here's a basic outline to help you get started with designing the online shopping system for the shoe shop:

**1. Requirements Gathering****User Roles:**

Admin/Shop Manager: Can upload shoe models, manage inventory, and view orders.

Customer: Can browse shoes, add items to the cart, and make purchases.

**2. System Features****Admin Features:**

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**Prompt:**

As the shop manager, what are your requirements?

**Response:**

As the shop manager, your requirements for the online shopping system would focus on ease of use, effective management, and insightful reporting. Here's a sample:

**1. User Management**

- Ability to create, edit, and delete user accounts (customers).
- View customer profiles and purchase history.

**2. Product Management**

- Upload new shoe models, including:
  - Product images

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- **NOTE:** make sure you document the conversations with the AI tool and keep them saved with you.

**Task 4. Requirements Analysis**

- Analyse the requirements you gathered in task 3 and document them properly (**Functional Requirements: User Requirements => System Requirements + Non-functional Requirements**).

**Submission:**

- Prepare a document (in .pdf) including the scope details (task 1), stakeholders analysis with the onion diagram (task 2), requirements gathered via questions and answers for the interviews or questionnaires (task 3) and requirements analysis (task 4).
- Submit this document to the BB using the week's submission link.
- **NOTE:** You will discuss the content in this submission with the seminar lead during the seminar in weeks 4 and 5 to finalize the scope.