Lesson 07 Demo 07

Automating Test Case Prioritization and Documentation Using Generative AI

Objective: To automate the prioritization of test cases and the generation of test documentation using ChatGPT for key functionalities in a healthcare management system
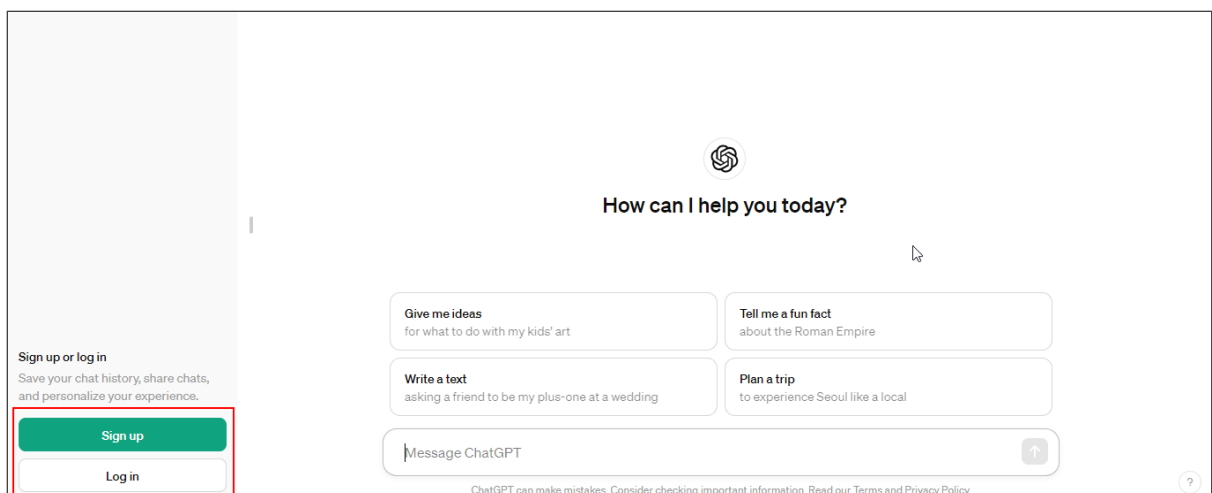
Tools required: ChatGPT 4

Prerequisites: None

Steps to be followed:
1. Prioritize test cases for critical functionalities using ChatGPT
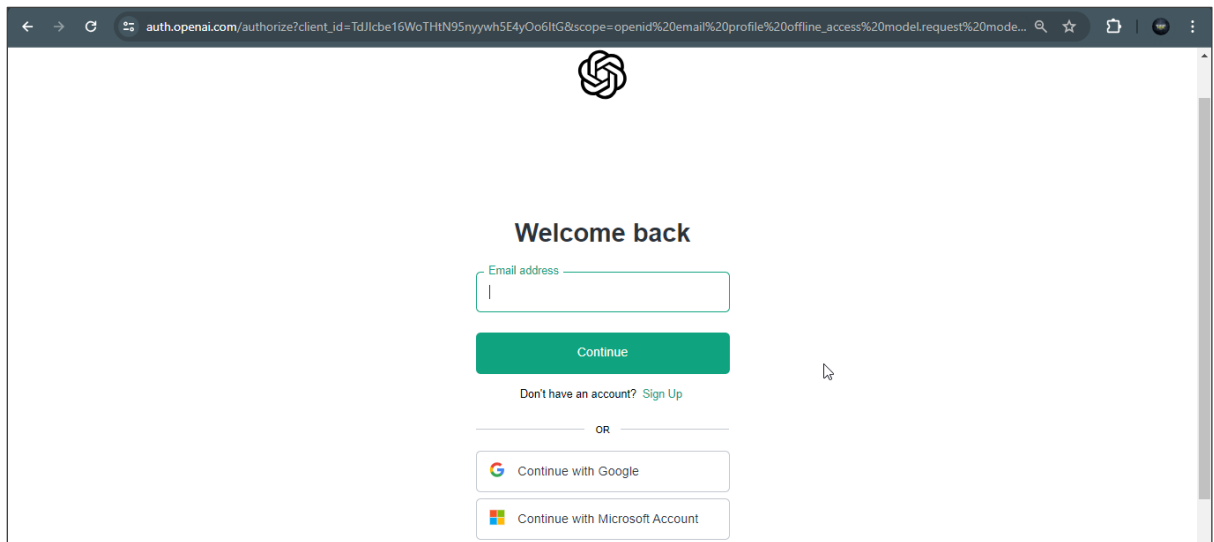2. Generate automated test documentation for key modules using ChatGPT

Note: Please be advised that ChatGPT, as an artificial intelligence tool, can produce varied outputs even when presented with similar prompts.

Step 1: Prioritize test cases for critical functionalities using ChatGPT

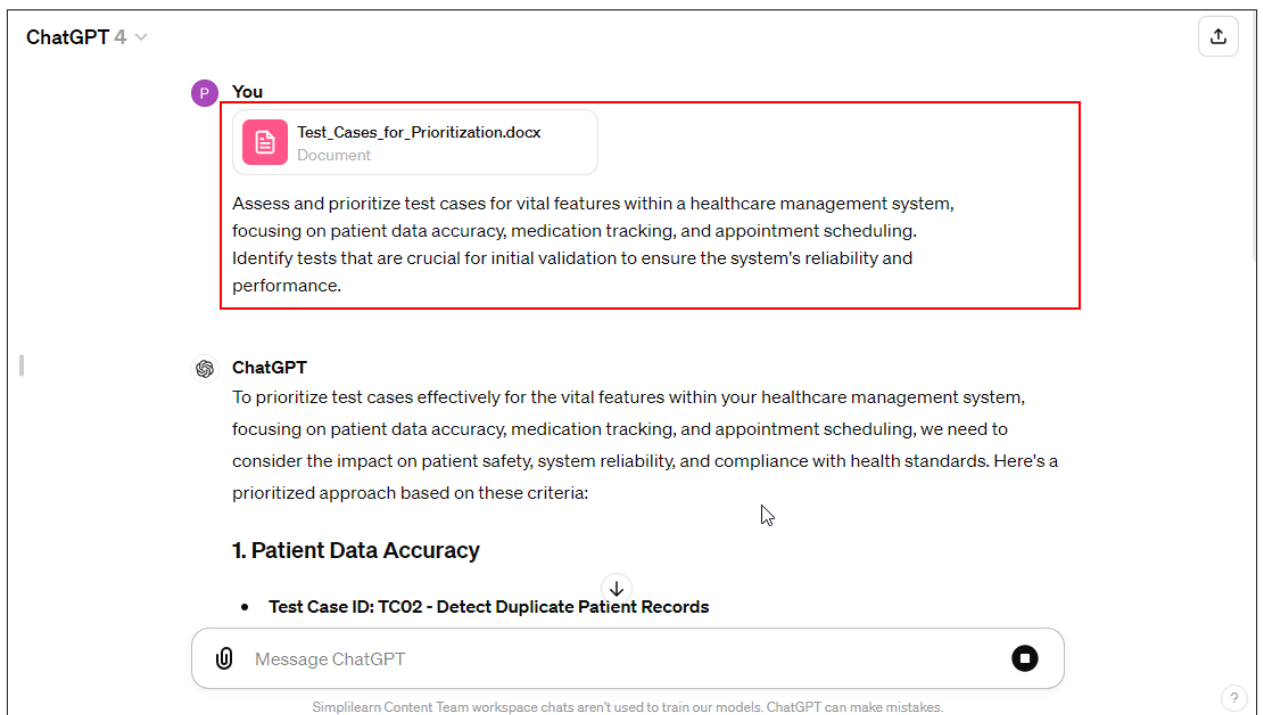1.1 Browse to the **https://chat.openai.com** website and log in to your account

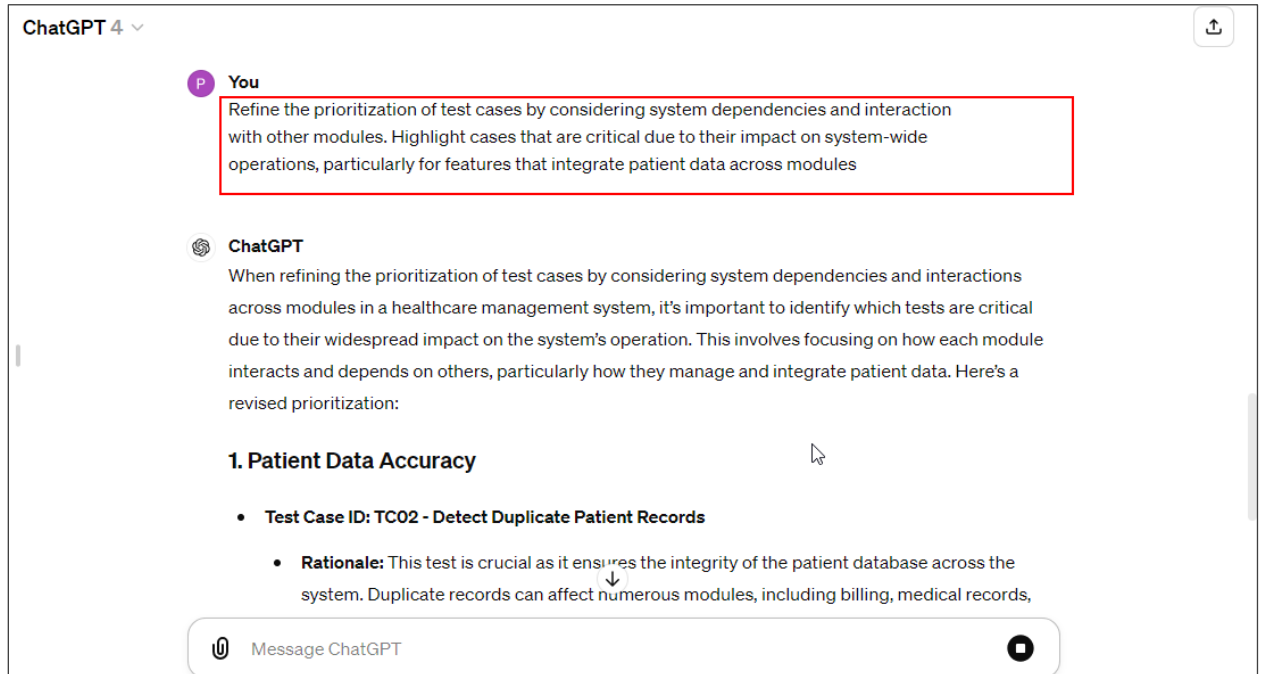**Note**: Sign up if you do not have an account

1.2 Upload the test cases document and use the following prompt to prioritize test cases, as shown in the screenshot below:

Assess and prioritize test cases for vital features within a healthcare management system, focusing on patient data accuracy, medication tracking, and appointment scheduling. Identify tests that are crucial for initial validation to ensure the system's reliability and performance.

1.3 Use the following prompt to refine prioritization with specific criteria, as shown in the screenshot below:
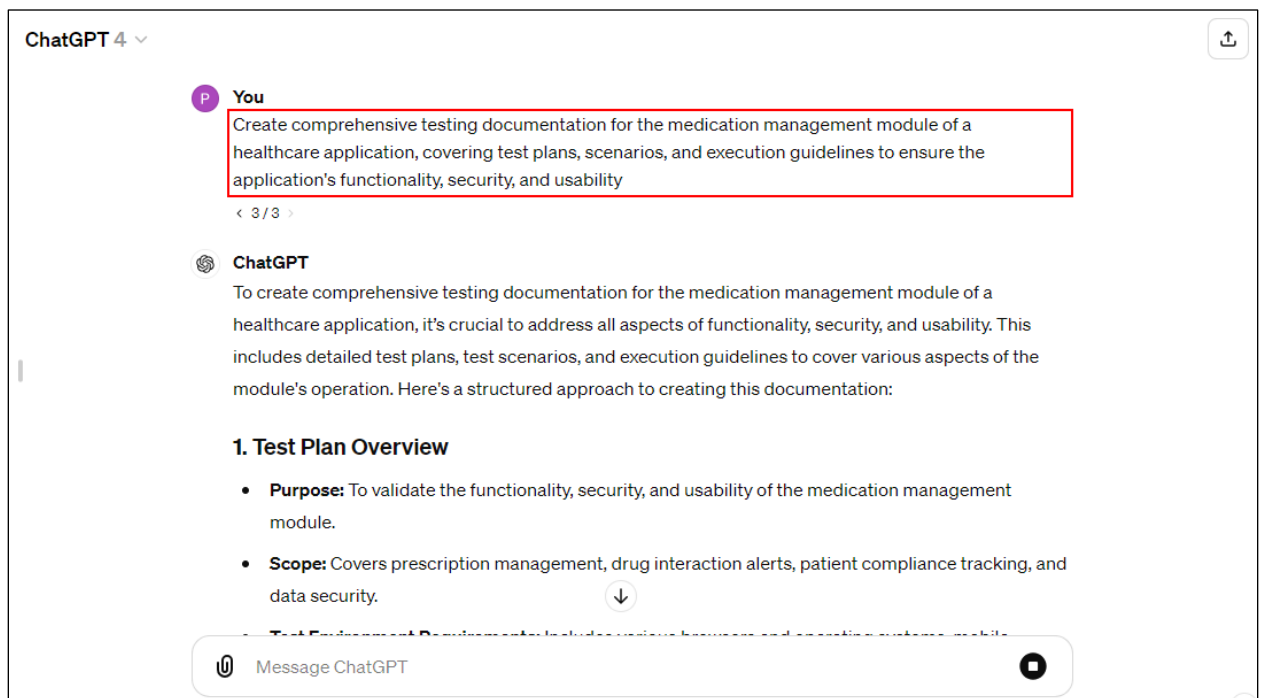
Refine the prioritization of test cases by considering system dependencies and interaction with other modules. Highlight cases that are critical due to their impact on system-wide operations, particularly for features that integrate patient data across modules.

Step 2: Generate automated test documentation for key modules using ChatGPT

2.1 Generate test documentation by using the following prompt, as shown in the screenshot below:
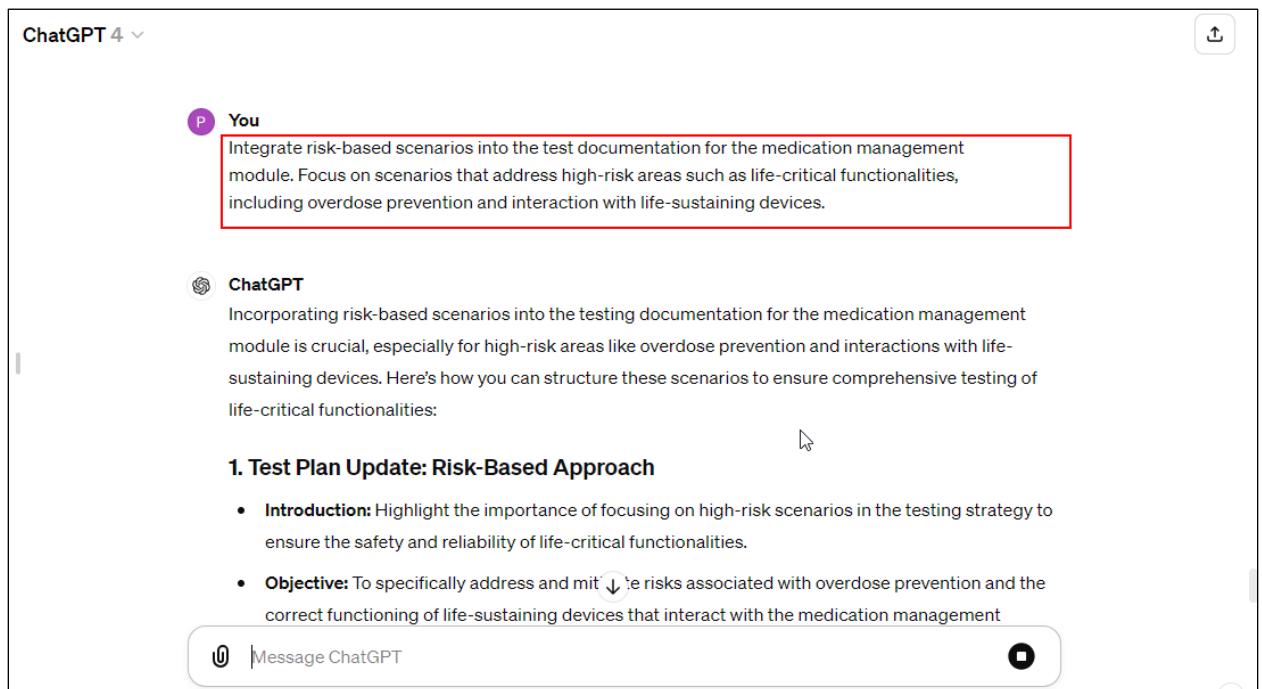
Create comprehensive testing documentation for the medication management module of a healthcare application, covering test plans, scenarios, and execution guidelines to ensure the application's functionality, security, and usability

2.2 Use the following prompt to incorporate risk-based scenarios into the test documentation, as shown in the screenshot below:

Integrate risk-based scenarios into the test documentation for the medication

management module. Focus on scenarios that address high-risk areas such as life-critical functionalities, including overdose prevention and interaction with life-sustaining devices.

By following these steps, you have successfully automated the prioritization of test cases and the generation of test documentation for key functionalities in a healthcare management system using ChatGPT.