**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. Browse to the **https://chat.openai.com** website and log in to your account  
       
     A screenshot of a computer

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

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* 1. 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.**

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* 1. 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.**

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

* 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**  
       
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  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.**  
       
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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.