🐞 Task 2: Structuring Informal Bug Notes into Formal Bug Notes

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In this task, we'll practice using **prompt engineering** and **output formatting** techniques to turn **informal bug notes** into clear, structured **bug reports**.

📚 Theory

AI Technique: Prompt Engineering; Output Formatting; Natural Language Understanding

Modern AI assistants like ChatGPT excel at transforming **unstructured inputs** into clear, structured information — if given the **right instructions**.

This task leverages the concept of **prompt engineering**, where carefully designed prompts guide the AI to produce consistent, useful results tailored to specific use cases.

A particularly important pattern here is **output formatting**, where the prompt must direct the AI to follow a **strict structure** (e.g., predefined sections in a bug ticket).

Additionally, this task calls on **natural language understanding (NLU)**:
The AI needs to **interpret vague or informal notes**, identify **implicit meaning**, and generate complete, **actionable content**.

AI models can help developers create **clear and complete ticket descriptions** by turning simple inputs into formal, well-structured text.
By using **prompt engineering techniques**, developers can provide context (like the type of ticket, relevant component, or observed issue) and have AI generate text that fits the conventions of tools like **Jira, GitHub, or GitLab**.

This improves **communication across teams** and reduces the time spent writing and rewriting vague tickets.

🛠️ Task

You're in the middle of QA or development and come across a bug. You wrote down a quick note like:

"Logout button doesn't work on Safari. It just doesn't respond."

This kind of **informal note** is common — but it's not enough for a developer to take action quickly.

🧩 **Design a prompt** that instructs an AI assistant (like ChatGPT) to convert **informal bug reports** like this into a clear, **well-structured bug ticket**. The output should follow this format:

- Title
- Description
- Steps to Reproduce
- Expected vs Actual Behavior
- Environment (if known)
- Severity or Impact

📌 Requirements

- The bug ticket description that you got using your prompt should **align with all the requirements** stated in the task description.