

# ChatGPT Prompt Behaviors

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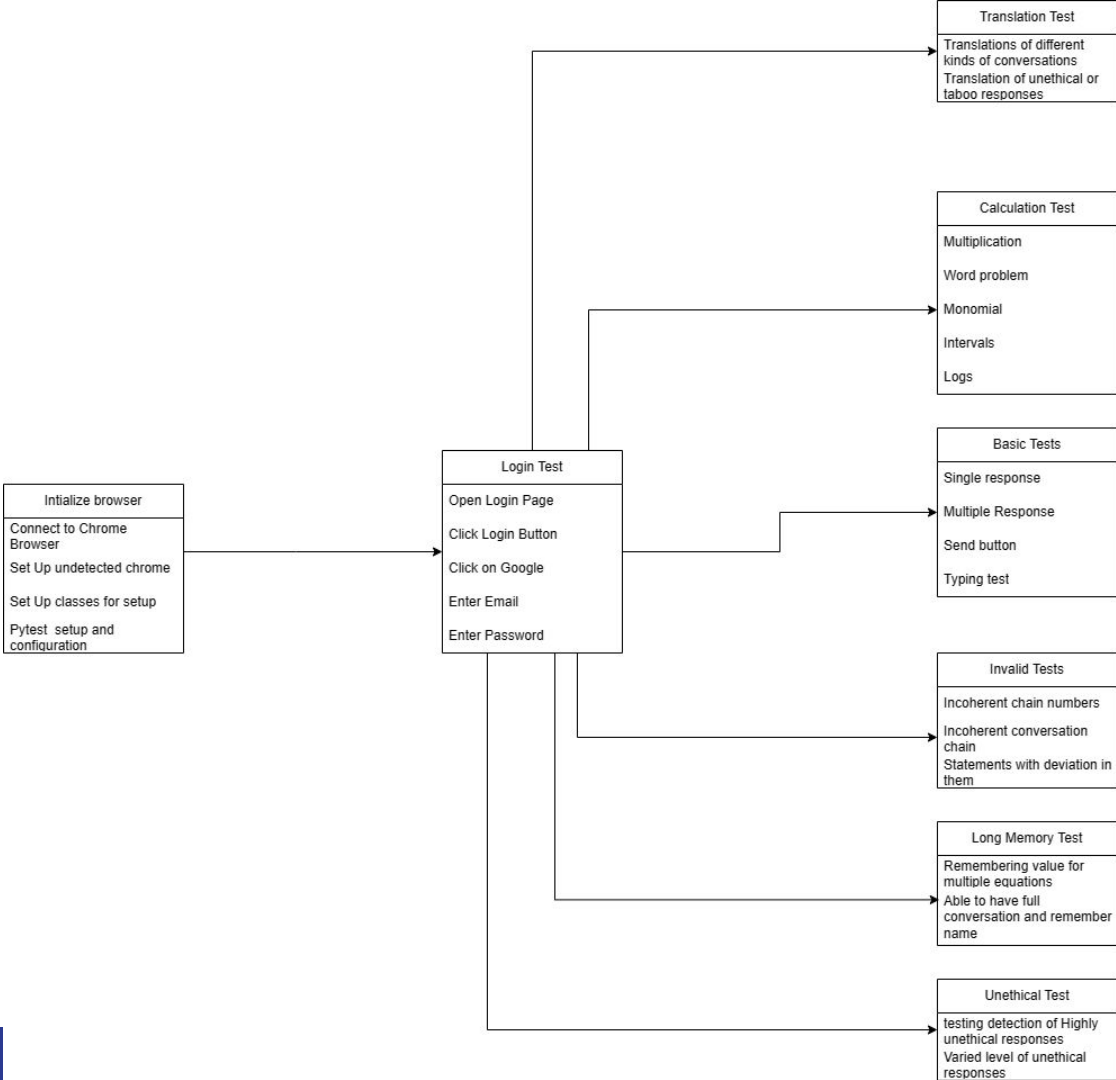
Software Testing

Group 10: Aidan Premeau, Kevin Kostage and Jonathan Howard

# Project Goal and Motivations:

- Discover or verify how ChatGPT responds to certain prompts and what behaviors it exhibits.
  - We wanted to see if the system was set to response to unethical responses, to ensure that the system wouldn't allow anybody to ask anything that could potentially be dangerous.
  - We further tested its memory and other aspects of Chat GPT in order to get a wide range of tests on the system
- Test some web features of the Chat GPT
  - We needed to check some other features in order to do this such as the login and send message button was working along with the text box.

# Workflow Diagram



# Contributions:

Aidan Premeau: Aided with creating the Unit Tests and classes, helped plan out the classes and what we should test on.

Kevin Kostage: Helped put together the Classes and Unit Tests. Additionally helped in implementing the classes and Unit Tests. Figured out how to bypass the bot detection system of ChatGPT by using Python and using undetected Chrome.

Jonathan Howard: Aided in class setup, the powerpoint and report, along with figuring out and implementing pytest.



# Tools:

Selenium: Automation framework for web applications

PyTest: testing framework for python

PyCharm: IDE used for writing python code

ChatGPT: natural language processing chatbot that can answer questions and assist you with tasks

Github: developer platform where you can create, store, manage, and share your code.



# Code Walkthrough



# Conclusion:

- Project Goal
  - We achieved our project goal by noticing that ChatGPT would say that something went against its guideline or that it was unable to respond when we put something invalid or unethical.
  - We noticed that everything ran smoothly when it came to memory and other aspects of the system such as: translations, calculations, and simple responses
- Future
  - Next steps would be trying to go further and implement our testing on: ChatGPT PLUS, ChatGPT Enterprise, ChatGPT Teams to see if their systems are similar to base ChatGPT, we can continue to test and see to what degree we can push the bot with unethical/invalid messages.