**Technical Task: E-commerce Automation Challenge Reflection**

**Assumptions Made:**

* Initiated the process with a registration scenario to acquire user credentials for subsequent login tests.
* Recognized the challenge with the "My Account" web element readability and directed the user straight to the registration page for a smoother process flow.

**Challenges Faced:**

* Exception-handling complexities emerged during the assessment, demanding meticulous attention.
* Debugging potential issues after code completion required extra attention.
* Encountered limitations where the application only accepted pre-registered emails for login, necessitating repetitive entry of registered emails for login functionality testing.

**Approach to Challenges:**

* Structured the code methodically to address exception-handling hurdles effectively.
* Implemented a well-spaced code structure to streamline error identification and debugging.
* Employed a random function for generating emails, facilitating dynamic test case execution.

**Testing Approach and Strategy for Automation Testing:**

* For this automation challenge, I adopted a systematic testing approach and hybrid automation framework leveraging tools like Pytest, python, PyCharm, and Selenium. Pytest facilitated seamless test case execution and comprehensive result generation, enhancing overall efficiency.

**Tools and Frameworks Used:**

* Pytest Framework: Utilized Pytest for its robust testing capabilities and streamlined reporting functionalities.

**Challenges Overcame:**

* Addressed exception-handling complexities through well-organized code structuring and strategic error handling.
* Employed systematic debugging techniques to swiftly identify and rectify post-code completion issues.
* Mitigated limitations of the application's login functionality by dynamically generating and utilizing registered emails for testing purposes.

**Potential Improvements:**

* Acquired knowledge of new features in Selenium 4 during the assessment.
* Tried many ways to create CSS Selector and relative Xpath to find the easiest way to save time.