Break a Test on Purpose, Then Diagnose It

Read a red test properly - and learn the difference between a test that has drifted and a test that disagrees with the application.

Before you start

> A passing test that checks a price.

Lab tasks

1. Build the guest basket test if you do not have one.

   ```
   Go to https://ecom.functionizeapp.com/testsites/anaqa/index.php?route=common/home and open the Electronics > Air Conditioner category. Open the product Boltas 2 Ton 3 Star Split AC, verify its price is $966.00, then click Add to Cart and verify the cart shows 1 item totalling $966.00. Do not sign in - use the guest cart.
   ```

2. Break it realistically - a price change the store has not shipped yet.

   ```
   The supplier has raised the price of this product. Update the price verification so it expects $1,099.00 instead of $966.00. Change only that expected value; do not re-run the test.
   ```

3. Run it. Before reading anything else, answer: which step is red, and did the steps before it pass? Write down what that alone rules out.
4. Expand the failing step and read the **Execution Error**. Record the operator, the value found and the value expected.
5. Check the Data tab. Did the application change, or did the expectation?
6. Click **Fix Test** and read what the agent decides. It may repair the test, or it may stop and ask you. Write down which it did and why.
7. Resolve it and confirm it passes.

   ```
   The store still sells it at $966.00 - my instruction was wrong. Put the check back to expecting $966.00, align the stored instruction, and re-run to confirm it passes.
   ```

Checkpoint

You have finished when:

- ☐ You made a test fail, explained it from the Execution Error alone, and fixed it.
- ☐ You can define drift and disagreement, and say which this was.
- ☐ You can say why silently rewriting the assertion would have been the wrong fix.

Stretch challenges

- Break it a second way - a wrong product name instead of a wrong price.
- Ask the agent "why did this fail?" before using Fix Test. Compare the answers.
- Open History and find the change that preceded the failure.