Copilot

Behavior-Driven Development (BDD) is a software development approach that emphasizes collaboration among developers, testers, and non-technical stakeholders to ensure the developed software meets the desired behavior. It uses a simple, domain-specific language known as Gherkin for writing tests. Here are some of the key Gherkin keywords:

1. **Feature**: This keyword is used at the beginning of a Gherkin file to provide a high-level description of the application feature that the following scenarios will address.

2. **Scenario**: This keyword is used to describe a specific behavior of the application in a specific situation. Each scenario is a list of steps that outline a particular test case.

3. **Given**: This keyword is used to describe the initial context of the system - the scene of the scenario. It is typically used to set up the test conditions.

4. **When**: This keyword is used to describe an event or an action. This is something that the user does or that happens to the system.

5. **Then**: This keyword is used to describe the outcome or result of the action. It is used to observe outcomes.

6. **And, But**: These keywords are used when you have multiple `Given`, `When`, or `Then` steps. They help to make the scenarios easier to read and understand.

Here's an example of how these keywords are used in a Gherkin test case:

```
Feature: Account Holder withdraws cash

Scenario: Account has sufficient funds
    Given the account balance is $100
    And the card is valid
    When I request $50
    Then the ATM should dispense $50
    And the account balance should be $50
```

In this example, `Given` sets up the initial state of the system (an account balance of $100 and a valid card), `When` describes the action of requesting $50, and `Then` describes the expected outcome (the ATM dispensing $50 and the account balance being $50).

Remember, the aim of using BDD and these keywords is to promote communication between technical and non-technical team members, clarify requirements, and drive development with executable specifications. Let me know if you need more information! 😊