

Assume you are expert in cucumber with java and eclipse IDE and ready for interview then what response do you give if a interviewer ask "What is cucumber and its key features"

If I'm in an interview and asked "**What is Cucumber and its key features?**", here's how I would confidently respond:

Cucumber is an open-source tool that supports **Behavior Driven Development (BDD)**. It allows developers, testers, and business stakeholders to write test scenarios in plain English using **Gherkin syntax**, making test cases easy to understand, even for non-technical people.

It acts as a bridge between technical and non-technical members of the team by turning feature requirements into executable tests.

Key Features of Cucumber:

1. Gherkin Syntax (Plain English):

- Test scenarios are written in a readable format using **Given-When-Then**.

Example:

Given user is on login page
When user enters valid credentials
Then user should be redirected to the dashboard

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2. Supports BDD (Behavior Driven Development):

- Focuses on the behavior of the application from the end-user perspective.
- Promotes collaboration among developers, testers, and business analysts.

3. Integration with Selenium & Java:

- Can be easily integrated with Selenium WebDriver to automate web applications.
- Supports Java, which makes it ideal for teams already using the Java ecosystem.

4. **Separation of Feature Files and Step Definitions:**

- Feature files define *what* to test.
- Step Definitions define *how* to test using Java code.

5. **Reusability & Modularity:**

- Step definitions can be reused across multiple scenarios, reducing code duplication.

6. **Tags for Filtering Scenarios:**

- We can use `@smoke`, `@regression`, etc., to run specific sets of test cases.

7. **Hooks (@Before, @After) Support:**

- For setup and teardown operations, like launching or closing browsers.

8. **Reports & Readability:**

- Generates detailed test execution reports.
- Makes it easy to trace requirements to test cases.

Bonus (if needed):

“Using Cucumber with Eclipse IDE is smooth, especially with Maven or Gradle to manage dependencies. The Cucumber plugin in Eclipse makes it easier to run feature files and debug step definitions seamlessly.”

Would you like a sample mini project structure or demo code that you can revise quickly before your interview?