

BDD & Cucumber Questions

BDD INTERVIEW QUESTIONS

what is BDD/BDT?

Behavior driven development/testing.

up vote 1do wn vote	BDD is just a way of defining the specifications for an area of functionality. The idea is to bridge the gap between technical and non-technical people by using human readable syntax of some kind and to use specific examples to define the desired behaviour rather than talking in the abstract. As such it is a tool to help people work together and define the business' requirements for the new functionality. This is the primary point of BDD. Not testing.
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what is TDD/TDT?

TEST Driven Development/testing

what is the difference between BDD & TDD

BDD is from customers point of view and focuses on expected behavior of the whole system.

TDD is from developers point of view and focuses on the implementation of one unit/class/feature. It benefits among others from better architecture (Design for testability, less coupling between modules).

Does Behavior Driven Development An Acceptance testing Software?

The definitions that come out of BDD are however, useful for acceptance testing as they define the expected behaviour that was agreed upon. As such many great tools like cucumber are available to facilitate automation of these scenarios to cut down on your testing time.

what is Cucumber?

Cucumbr is the Framework you use in order to perfrom BDD.

using the help of cucumber we are able to write or add feature file into our project. cucumber is written in gherkin syntax.

gherkin is basically a programing language.

how can you add cucumber into your eclipse IDE?

first you need to go to your eclipse ide and then you need to go to help under help you click on install new software and then you paste this url <http://cucumber.github.com/cucumber-eclipse/update-site> over there and install cucumber plugin into your eclipse ide.

what are the testing frameworks & languages that supports cucumber OR what kind of languages and frameworks you have used?

Cucumber supports many different languages and many other testing frameworks but i have used cucumber with java and cucumber with junit

how did you add Cucumber in you project?

i need to have two jar files for that

1)cucumber with java

2)cucumber with junit

Although i'm using junit i can not import those annotations from junit. i have to import those junit annotations from the jar i added to my project "cucumber-junit."

what is the extension you use in order to make a feature file into you project level?

`moga.feature`

using the `.feature`

how does a feature file looks like?

Feature: Check login process

when i provide valid email and password

as a customer i should be logged into facebook

@login

Scenario: login

Given I open facebook

When I enter my email as "abc@gmail.com" And password as "1234"

Then I should be able to login

Based on what feature file is written?

In order to write feature file we need to follow BRD.

Why we need scenario keyword?

scenario keyword used for in order to write any test scenarios. in simple words how you going to test your application, what steps and what are the strategies you would take.

Why we use given keyword?

given keyword is stands for when you have something given as it is in the BRD. lets say domain name is given to you .

Why we use When keyword?

When keyword is used as whenever you put any condition inside using WHEN keyword. for example- Please see the feature file

Why we use Then keyword?

Then keyword is used for in order to expect any results after the test.

Why we use And keyword?

And keyword is used for in order to add something to you existing statement that you have written down. or in another word you can say adding something to the condition. for example - please see the feature file

Why we use But keyword?

but keyword is used for whenever you feel like to use it..there is no restrictions in cucumber its just a regular english you follow depends on what is the situation

Can you do comments on feature file?

yes i can do comments on feature file. depends on what language you are using. for java its `//` and for python its `'''` and for ruby its `#`

we use comments on feature file to make it more business readable

for example please see the feature file Above in order to understand properly.

Why we need Background keyword in bdd?

whenever i have something Common i put that under background keyword. its just like the junit annotation @Before we put all those common functionality under that annotation. please don't mix junit and Cucumber. also in details > A background section in a feature file allows you to specify a set of steps that are common to every scenario in the file. Instead of having to repeat those steps over and over for each scenario, you move them up into a Background element. There are a couple of advantages to doing this: • If you ever need to change those steps, you have to change them in only one place. • The importance of those steps fades into the background so that when you're reading each individual scenario, you can focus on what is unique and important about that scenario.

it's often useful to improve the readability of your features by removing repetitive steps from individual scenarios. for examples-

Background:

Given I have been issued a new card

And I insert the card, entering the correct PIN

And I choose "Change PIN" from the menu

Scenario: Change PIN successfully

When I change the PIN to 9876

Then the system should remember my PIN is now 9876

Scenario: Try to change PIN to the same as before

When I try to change the PIN to the original PIN number

Then I should see a warning message

And the system should not have changed my PIN

how can you data driven testing using cucumber or inside of you feature file?

by using the example keyword. so whenever i have some common values for example i have email and password and i'm going to use it for different test scenarios thats when i can use example keyword and put my values like this

Examples

```
||email          ||password      ||
||abc@gmail.com  || 12345677    ||
||irivrivn@yahoo.com|| 6637avkkb.v  ||
```

thats how you can put different values which has same property like email and password. and also this is the (|.|.) pipe character. its called the pipe character

what is scenario outline?

Sometimes you have several scenarios that follow exactly the same pattern of steps, just with different input values or expected outcomes.

scenario outlines is basically used for common scenarios. in simple words lets say you have to take out certain amount of money out of your bank and you should have the remaining balance into your account. so instead of writing all those amount of money in one line you can use <money> this syntax and name the tag and put the values right under that scenario so that you feature file is more business readable and it doesn't get boring while reading or looking into it.

for example -

Feature: Withdraw Fixed Amount The "Withdraw Cash" menu contains several fixed amounts to speed up transactions for users.

Scenario Outline: Withdraw fixed amount

Given I have <Balance> in my account

When I choose to withdraw the fixed amount of <Withdraw>

Then I should receive <Received> cash And the balance of my account should be <Remaining>

Examples: | Balance | Withdrawal | Received | Remaining |

| \$500 | \$50 | \$50 | \$450 |

\$500	\$100	\$100	\$400
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\$500	\$200	\$200	\$300
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what are tags in cucumber feature files?

tags are easier to find any test scenarios. because you don't have the time to read the scenario and go inside of it. so thats why tag is being used in these examples. please have a look at the examples i have provided above. here's an another syntax - @login .tags are used before each scenarios.

what is the difference between SCENARIO OUTLINE & BACKGROUND keywords?

So if i look at the difference between each one of them , conceptually they are used against same purpose but with different fields of information.

SCENARIO OUTLINE -in simple words **SCENARIO OUTLINE** is used for whenever you have some common steps that you have to write again and again and the values are different ,that is when you use **SCENARIO OUTLINE**. for further details on how to write scenario outline check out the the section where i have mentioned "what is scenario outline"

BACKGROUND - again background is used as when your gonna have some steps that is common and you are writing it over and over again,so instead of writing those steps again & again you can declare a **BACKGROUND** keyword and under that you write your common steps so that everytime your test executes those steps are executing at first. in that way you only write those steps once in

your feature file, and also in order to work **BACKGROUND** keyword you need to have those scenarios under background thats how it gets executed before every scenarios. for further details on how to write BACKGROUND see the examples where i said ""what is background?""