

Cucumber With Serenity BDD

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Serenity BDD

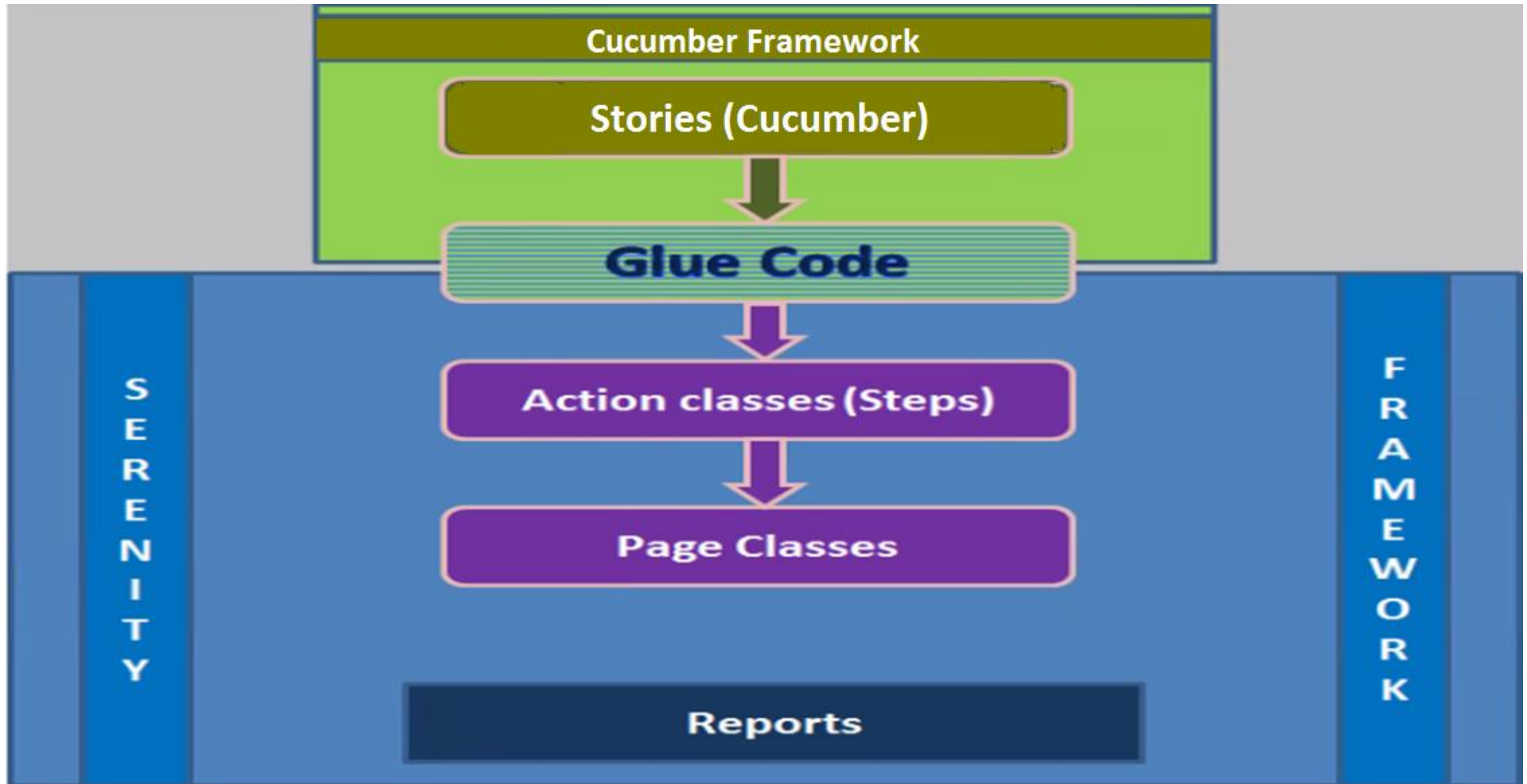
What is Serenity BDD..?

- 1) Serenity BDD is an open source reporting library.
- 2) It helps you write better structured, more maintainable automated acceptance criteria.
- 3) It produces rich meaningful test reports (or "living documentation") that not only report on the test results, but also what features have been tested.

Serenity Framework Overview



Serenity – Cucumber Automation Flow





Cucumber Feature File

1) Behavior-Driven Development encourages you to start defining the features via scenarios that express the desired behavior in a textual format.

```
Feature: Create a Customer
```

```
Scenario: Create a Customer in Guru99
```

```
Given I am in Add New Customer Page
```

```
When I enter all customer data
```

```
And save the Customer
```

```
Then I should be able to see Customer Registered Successfully
```

```
But I should know the result
```



Glue Code

Glue Code is the mapping code between JBehave story files and Serenity coding files.

```
public class CreateCustomerStepDefinitions{
    @Steps
    CreateCustomerSteps createCustomerSteps;

    @Given("^I am in Add New Customer Page$")
    public void i_am_in_Add_New_Customer_Page() {
        createCustomerSteps.i_am_in_Add_New_Customer_Page();
        createCustomerSteps.i_click_on_New_Customer_Link();
    }
    @When("^I enter all customer data$")
    public void i_enter_all_customer_data() {
        createCustomerSteps.i_enter_all_customer_data();
    }
    @When("^save the Customer$")
    public void save_the_Customer() {
        createCustomerSteps.save_the_Customer();
    }
    @Then("^I should be able to see Customer Registered Successfully$")
    public void i_should_be_able_to_see_Customer_Registered_Successfully() {
        createCustomerSteps.i_should_be_able_to_see_Customer_Registered_Successfully();
    }
}
```



Step File

Step files are helpful to run in step by step manner. This is the main concept for generating the reports.

```
public class CreateCustomerSteps {

    protected LoginPage loginPage;
    protected ManagerPage managerPage;
    protected NewCustomerPage newCustomerPage;

    @Step
    public void i_enter_all_customer_data() {
        newCustomerPage.fillCustomerValues();
    }
    @Step
    public void save_the_Customer() {
        newCustomerPage.saveCustomer();
    }
    public void i_should_be_able_to_see_Customer_Registered_Successfully() {
        Assert.assertEquals("Customer Registered Successfully!!!",
            newCustomerPage.getCustomerRegisteredSuccessfullyTableHeading());
    }
    @Step
    public void i_am_in_Add_New_Customer_Page() {
        loginPage.openGuru99LoginPage();
        loginPage.enterUserID(null);
        loginPage.enterPassWord(null);
        loginPage.clickLoginBtn();
    }
}
```



Page File

In Page files we will declare the widgets and business actions functions.

```
@DefaultUrl("http://www.demo.guru99.com/v4/index.php")
public class LoginPage extends PageObject{

    private static final String USER_ID = "uid";
    private static final String PASS_WORD = "password";
    private static final String LOGIN = "btnLogin";

    @FindBy(name = USER_ID)
    WebElement userId;
    @FindBy(name = PASS_WORD)
    WebElement passWord;
    @FindBy(name = LOGIN)
    WebElement login;

    public void openGuru99LoginPage() {
        open();
    }

    public void enterUserID(String userId) {
        this.userId.sendKeys(userId);
    }
}
```




Reference

<https://cucumber.io/docs/reference/browser-automation>

<http://thucydides.info/docs/articles/an-introduction-to-serenity-bdd-with-cucumber.html>





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