AUTOMATION TESTING FOR SYSTERS PORTAL MEETUP FEATURES

BY ANJALI

FOR

SYSTERS, AN ANITA BORG INSTITUTE COMMUNITY

GOOGLE SUMMER OF CODE 2015

Work Available

- Codes are available on the Github repo : https://github.com/systers/automated-testing/tree/develop/PortalMeetupTests
- Documentation of the project : http://documentationgsoc15.blogspot.in/

Project Prerequisites

- Selenium
- Build Automation Tool : Maven
- Java(JUnit)
- Eclipse IDE
- Web Browser

Why Automated Testing?

- Regression
- High level testing
- Combinatorial Testing
- Exact Requirements

Future of the Project

- The Framework can be easily extended by adding more tests and implementations for the same.
- Complete Meetup features which are still in progress.
- Add DB Tests to the Framework.

The Team

Mentor

Shwetambara
ASE at Tata Consultancy Services
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Student

Anjali
Manipal Institute of Technology
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Project Milestones

- Framework for the Meetup features.
- Framework for the stable features of Systers Portal developed over the year
- Test reports generated for all the tests implememted.
- Documentation is complete.

Project Objective

- The aim is to create testing framework for Systers Portal with the newly added Meetup feature
- The goal is to create and execute automated test scripts which are efficient and reusable

Project Approach

- Simple Tests
- Test Driven Development
- Black Box Testing

References

- http://junit.org/
- http://en.wikipedia.org/wiki/JUnit
- http://learn-automation.com/maven-integration-with-selenium/
- http://www.toolbox.com/selenium-webdriver/page-object-model/
- http://www.toolbox.com/cucumber/test-driven-development-tdd/
- http://www.tutorialspoint.com/selenium/

The Framework

About Selenium

Adding Test to the Framework

- Record the test steps with the help of Selenium IDE and export it to Junit test case.
- Create a new test class and add the test funtion to @Test annotation.
- Call the implementation function inside that function and assert with Assert.assertEquals(true , ImplementationFunction()).
- Add the steps to the implementaton function with the help of the recorded steps.

About Maven

- Maven is a build automation tool used primarily for Java projects.
- Maven provides pom.xml which is the core to any project. This is the configuration file where all required information is kept.

Maven integration in Eclipse

- It is available in Eclipse by installing M2Eclipse plugin from http://download.eclipse.org/technology/m2e/releases

An Example Test

THANK YOU

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About Selenium

- Selenium is a portable software testing framework for web applications.
- Selenium IDE provides a record/playback tool for authoring tests without learning a test scripting language.
- Can be used with Java, C#, Groovy, Perl, PHP, Python and Ruby.
- It is open-source software, released under the Apache 2.0 license, and can be downloaded and used without charge.

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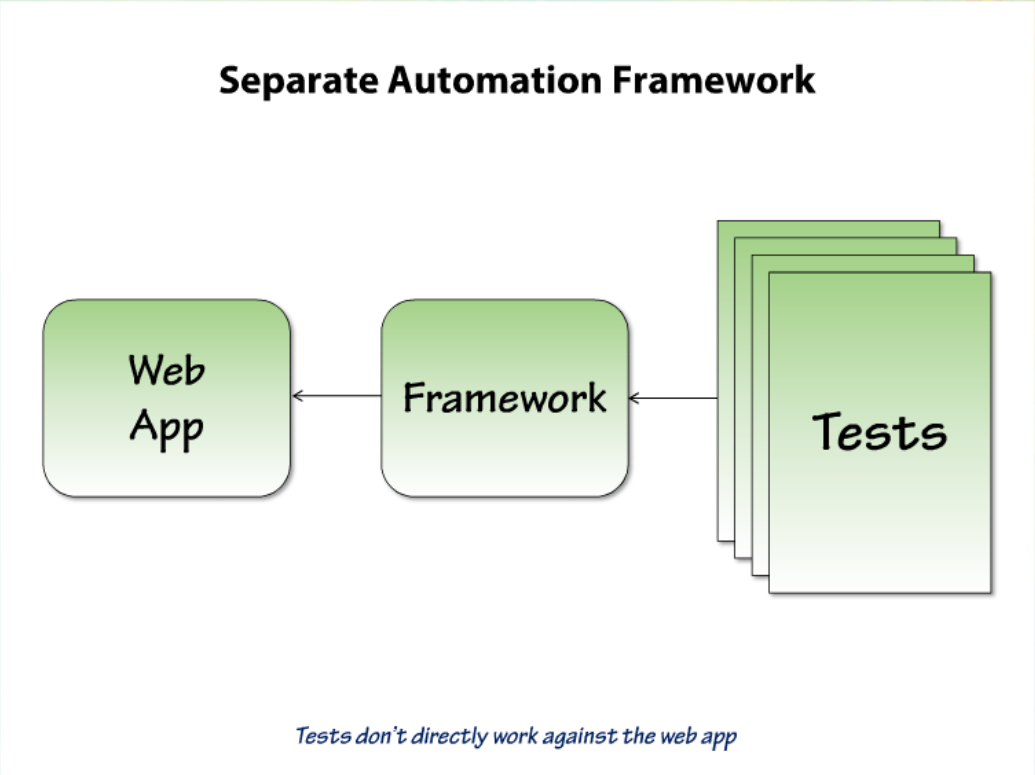
Project Approach



- Simple Tests
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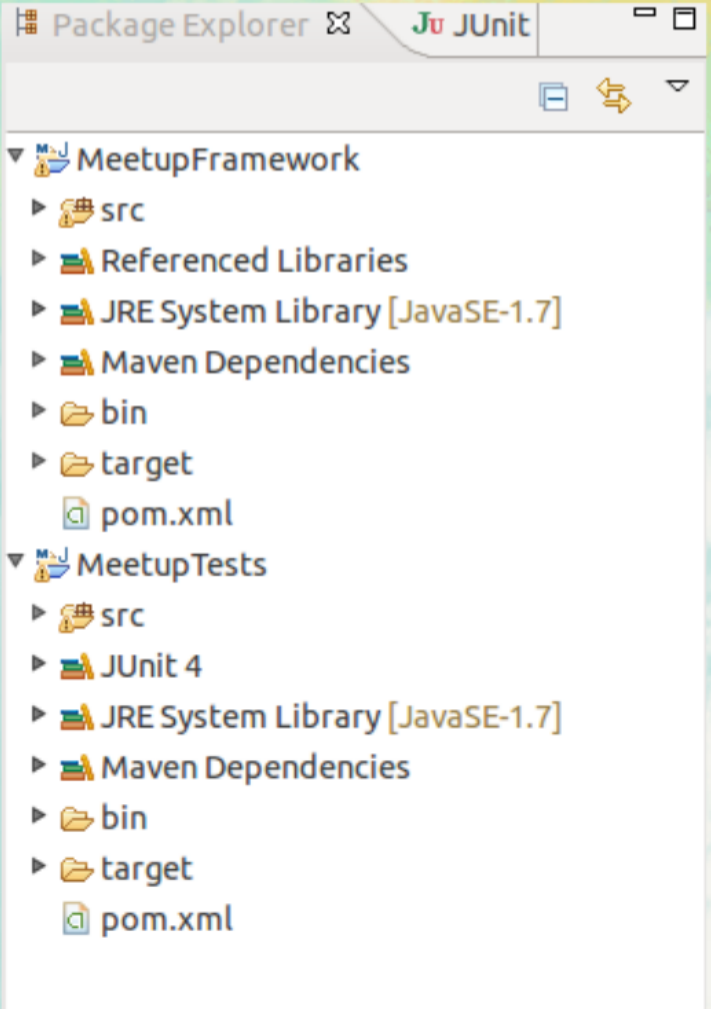
The Framework



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An Example Test

```java
package MeetupLocationsPageTests;
import org.junit.Assert;

 * @author Anjali

/*
 * Checks navigation to Meetup locations page where all the Meetup locations are listed.
 */
public class CanGotoMeetupLocationsPageTest extends CommonTest
{

    @Test
    public void test()
    {
        Assert.assertEquals(true, MeetupLocations.IsAtMeetupLocationsPage());
    }

}
```

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The Implementation

```
/*
 * @author Anjali
 */

public class MeetupLocations
{

    //Validates navigation to Meetup locations page
    public static boolean IsAtMeetupLocationsPage()
    {
        Driver.Instance.get(PageObjModel.baseURL+"meetup/locations/");

        //Extracting page title
        WebElement MeetupLocationsPageTitle= Driver.Instance.findElement(PageObjModel.MeetupLo
        String Title= MeetupLocationsPageTitle.getText();

        WebElement Map= Driver.Instance.findElement(PageObjModel.Map);

        //Validate
        if(Title.equals("Systers Meetup Locations") && Map.getText().startsWith("Terms of Use"
            return true;
        else
            return false;
    }

    public static boolean CanChooseLocation()
    {
```

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