Good morning, everyone. I am Sonal Adhikari here to present my knowledge and findings on the things we learned throughout this trainee program. Our main focus was on performing Qa automation using selenium, which we learned to work with in Java and python.

Now lets get started with qa automation using selenium java

For my project I got a demo site “phptravels.org”. It is kind of like an ecommerce site where instead of buying goods, we get the services of Application installation, application update, Installation of mobile application, buying license etc.

Here user can order all these services, add them to cart, remove items from the cart, checkout and proceed for payment

User can also register an account with email, contact number, billing information, username and password and can login.

User can also search for articles through the search bar and browse through different categories.

This is all about the introduction of the website. Now lets move on to the objectives of the project.

The main objective of our project was to implement java selenium and automate a workflow of the given site.

For this , the used methodologies includes steps like (this this this see from ppt)

Now talking about requirement analysis,

First step was to understand the testing requirements for the target website.

Then I identified the test scenarios and features to be covered during automation.

After that comes setting up the environment

At first java development kit was installed and configured. Then we installed

Selenium and setup the required WebDrivers and chrome drivers as I worked with chrome

Browser.

Then I worked on adding maven dependencies and also incorporated TestNG framework.

Now talking about test case design i designed …(from ppt)

Along with this I utilized page object model design pattern to structure my code,

Which resulted in code efficiency and reusability.

Ok so, now lets talk about test execution and reporting.

Firstly tests were executed by using testing framework. I used testing annotations to systematically

Execute test cases. Also I assigned tests with certain priority so that all the test executed in

Proper order

After that I encountered an iframe element in the execution proocess, which I navigated using selenium’s

switchTo() method, after switching to an iframe and finishing my execution, I switched back to default content and continued my test execution.

Another thing I did was implemented waiting strategies for elements to be visible or sometimes clickable. For that I used explicit wait.

Also I made use of javasceript executor for certain elements to scroll into view when elements were not being located.

And finally I handled error using the try catch block.

Here, I used logger to track all of my errors or info’s and finally generated an emailable report using testing.

For maintenance part of my project, git is being used for maintaining and updating code if any changes are being made.