229. Steps to connect Database to Selenium Testcases

Selenium/Appium scripting with DataBase Validation

Problem Explanation – client A consultant B

Downloading MySQL

Creating Databass and Tables

JDBC Connection with java programming

Selenium/Appium Integration on JDBC code

Retriveing data from Database and executing with Selenium/Appium

Note : Appium is used for mobile Tc’s

Client A want credit card banking they approach one consultant. Consultant developing but they want different user credentials ( zero balance account, overdue account like that )

For ex : client given few account credentials but after few days in zero balance account some transaction happened if we run the script for zero balance it will fail. Consultant go to client and ask we want new zero balance account like that he asked. Like this every time this issues is so client said

Don't ask me the credentials of data every day. We have a database and we update that stuff there. If it change something bank account that we change the password whatever it is.

We have our database there we all have our log instead of just having given that database access to go and take it from that.

230. mysql download instructions

To write the sql commands we want one editor So if you're having a proper editor then you write your commands and hit the database and we will get the results.

We need the server, server in the sense database where it located. So to create a database server so that you can host a database on it. ( Mysql server , Mysql editor ) to write our quries.

To connect mysql server so once you download the server you want credentials to connect we cannot connect it directly ( user name : root , password : 1998 )

My sql official link - <http://dev.mysql.com/downloads/> - [MySQL Installer for Windows](https://dev.mysql.com/downloads/windows/) – click on this link download – after download just double click -

231. mySQL server connection procedure

Now we need to first connect to the server so that then we will have access to that database just present in the mysql server.

First server in server there are databases in database there are tables in tables there are records we will extract the records with the help of mysql queries.

( sakila, test, world ) – these 3 are by default database present in the server

Go to c/program files(x86)/mysql/ - click on mysql work bench - click on mysql connection.exe then click on mysql connection give the credentials when you downloaded the editor. Then mysql will open.

232. Creating Database in mysql server

You mention any name we metioned the database name as qadbt

Execute this automatically qadbt database will be create - create database qadbt;

233. Creating Tables in Databases

Before start creating the tables first you should tell to your mysql editor in what database your creating the tables. ( point to database use use command ) - use qadbt;

create table Employeeinfo (name varchar(20), id int, location varchar(20), age int);

234. Inserting records into table

If you want to see the created table – syntax : describe tablename ( Ex : describe Employeeinfo )

if you are writing something in strings, make a habit of writing a single quote.

It expects single quote if it is in string,

insert into Employeeinfo values('sam',1,'newjersey',21);

insert into Employeeinfo values('ram',2,'newyork',22);

insert into Employeeinfo values('tam',3,'florida',23);

insert into Employeeinfo values('nam',4,'charlotte',24);

insert into Employeeinfo values('lam',5,'texas',25);

235. Integration of Database with JDBC API

Let’s see jdbc connection with java programming

Eclipse -> right click -> new java project(DatabaseTesting)-next-finish- no.

So first we work with jdbc connection You have one jar which you need to download and you know configure in this program.

Download mysql connector java jar file just search in google

Import the jar files in to this project right click\_properties-java buidpath- libraries-add external jars apply

Create a class ( jdbcconnection)

Connection URL syntax : “jdbc:mysql://”+host+”:”+port+”/databasename”;

236. Steps to conect Database info to Selenium - 1

Now if client & consulatant using same database then if we run the scripts we will get the accurate results

238. Steps to connect Database info to Selenium – 2

Add the selenium server jar file in the official selenium download and add in the project

Now I want to enter the information of username and password,

So that data I want to pick from my database.

so this is how you can take the data from database and inject into your Selenium scripts.

So even you can do this data driven testing from DB as well.

It's not only from Excel or from TestNG attributes you can also do it from database.

create database demo; // data base name demo

use demo;

Create table Credentials(scenario varchar(20),username varchar(20), password varchar(20));

insert into Credentials values('Zerobalancecard','Hari','sankar');

insert into Credentials values('outstbalancecard','Ravi','Kumar');

insert into Credentials values('rewardscard','Madhu','Reddy');

insert into Credentials values('shoppingcard','Arun','Bhaskar');

insert into Credentials values('basiccard','Mohan','Vamsi');

select \* from Credentials;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** jdbcconnection {

**public** **static** **void** main(String[] args) **throws** SQLException, ClassNotFoundException {

// **TODO** Auto-generated method stub

String host="localhost";

String port= "3306";

Connection con=DriverManager.*getConnection*("jdbc:mysql://" + host + ":" + port + "/demo", "root", "1998");

Statement s=con.createStatement();

ResultSet rs=s.executeQuery("select \* from credentials where scenario ='rewardscard'");

**while**(rs.next())

{

WebDriver driver= **new** ChromeDriver();

driver.get("https://login.salesforce.com");

driver.findElement(By.*xpath*(".//\*[@id='username']")).sendKeys(rs.getString("username"));

driver.findElement(By.*xpath*(".//\*[@id='password']")).sendKeys(rs.getString("password"));

}

}

}