

- **Selenium Test:**

```
package com.example.tests;

import java.util.regex.Pattern;
import java.util.concurrent.TimeUnit;
import org.junit.*;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.*;
import org.openqa.selenium.*;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;

public class NPUPTest {
    private WebDriver driver;
    private String baseUrl;
    private boolean acceptNextAlert = true;
    private StringBuffer verificationErrors = new StringBuffer();

    @Before
    public void setUp() throws Exception {
        driver = new FirefoxDriver();
        baseUrl = "https://www.google.com/";
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
    }

    @Test
    public void testNPU() throws Exception {
        driver.get(baseUrl + "/search?q=npu+&ie=utf-8&oe=utf-8");
        driver.findElement(By.cssSelector("h3.LC201b")).click();
        driver.findElement(By.cssSelector("h3.LC201b")).click();
        driver.findElement(By.xpath("//button[@type='button']")).click();
        driver.findElement(By.xpath("//button[@type='button']")).click();
        driver.findElement(By.linkText("MyNPU")).click();
        driver.findElement(By.linkText("MyNPU")).click();
        driver.findElement(By.xpath("//button[@type='button']")).click();
        driver.findElement(By.xpath("//button[@type='button']")).click();
        driver.findElement(By.linkText("Student Log-In")).click();
        driver.findElement(By.linkText("Student Log-In")).click();
        driver.findElement(By.id("UserName")).clear();
        driver.findElement(By.id("UserName")).sendKeys("19524pm");
        driver.findElement(By.id("UserName")).clear();
        driver.findElement(By.id("UserName")).sendKeys("19524pm");
        driver.findElement(By.id("Password")).clear();
        driver.findElement(By.id("Password")).sendKeys("mitmit@2");
        driver.findElement(By.id("Password")).clear();
        driver.findElement(By.id("Password")).sendKeys("mitmit@2");

        driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();

        driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();
        driver.findElement(By.id("Password")).clear();
    }
}
```

```

        driver.findElement(By.id("Password")).sendKeys("Mitmit@2");
        driver.findElement(By.id("Password")).clear();
        driver.findElement(By.id("Password")).sendKeys("Mitmit@2");

driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();

driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();

driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();

driver.findElement(By.cssSelector("input[type=\"submit\"]")).click();
        driver.findElement(By.linkText("Log Off")).click();
        driver.findElement(By.linkText("Log Off")).click();
    }

    @After
    public void tearDown() throws Exception {
        driver.quit();
        String verificationErrorString = verificationErrors.toString();
        if (!"".equals(verificationErrorString)) {
            fail(verificationErrorString);
        }
    }

    private boolean isElementPresent(By by) {
        try {
            driver.findElement(by);
            return true;
        } catch (NoSuchElementException e) {
            return false;
        }
    }

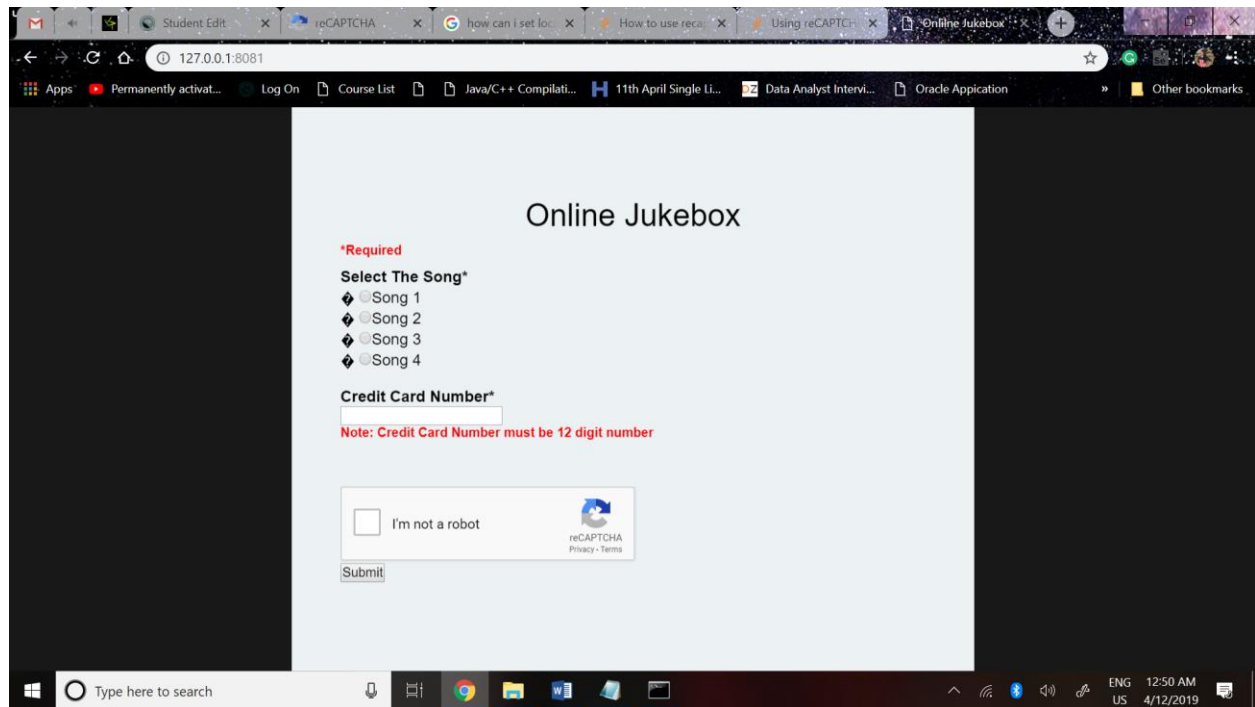
    private boolean isAlertPresent() {
        try {
            driver.switchTo().alert();
            return true;
        } catch (NoAlertPresentException e) {
            return false;
        }
    }

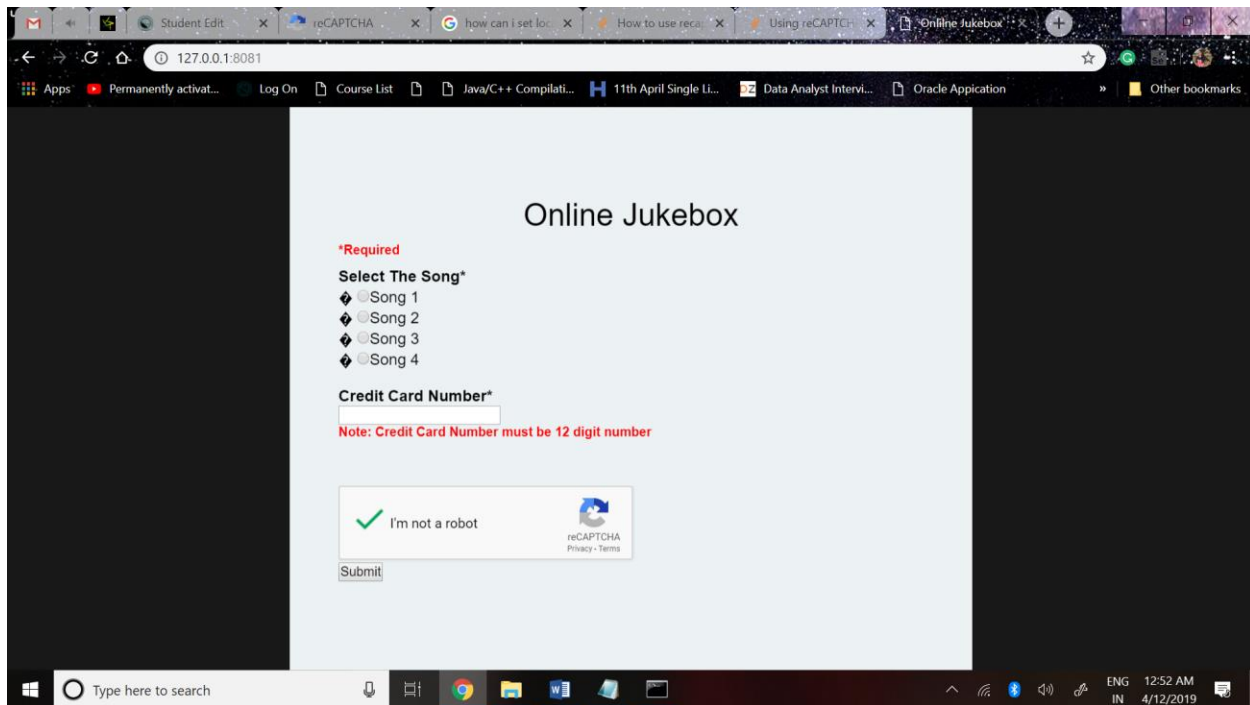
    private String closeAlertAndGetItsText() {
        try {
            Alert alert = driver.switchTo().alert();
            String alertText = alert.getText();
            if (acceptNextAlert) {
                alert.accept();
            } else {
                alert.dismiss();
            }
            return alertText;
        }
    }

```

```
} finally {  
    acceptNextAlert = true;  
}  
}  
}
```

- reCAPTCHA v2





Code:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <script src="https://www.google.com/recaptcha/api.js" async defer></script>
```

```
<head>
```

```
    <title>Online Jukebox</title>
```

```
</head>
```

```
<style>
```

```
    *{margin: 0; padding: 0;}
```

```
    body{background: #171818; font-family: sans-serif;}
```

```
    .form-wrap{ width: 700px; background: #ecf1f4; padding: 100px 50px; box-sizing: border-box;
position: fixed; left: 50%; top: 50%; transform: translate(-50%, -50%);}
```

```
    h1{text-align: center; color: #000; font-weight: normal; margin-bottom: 10px;}
```

```
    h5{text-align: left; color: #f00; font-weight: normal; margin-bottom: 10px;}
```

```
        #submit {background-color: #bbb; padding: .5em; -moz-border-radius: 5px; -webkit-border-
radius: 5px; border-radius: 6px; color: #fff; font-family: 'Oswald'; font-size: 20px; text-decoration:
none;border: none;}
```

```
#submit:hover { border: none; background: orange; box-shadow: 0px 0px 1px #777;}

::placeholder{color: #fff;}

</style>

<body>

<div class="form-wrap">

  <form action="cgi-bin/proc.py" method=get>

    <h1>Online Jukebox</h1>

    <p><strong><h5>*Required</h5></strong></p>

    <p><strong>Select The Song*</strong></p>

    <label><input type="radio" name="Song" value="Song1" required/>Song 1</label><br>

    <label><input type="radio" name="Song" value="Song2" />Song 2</label><br>

    <label><input type="radio" name="Song" value="Song3" />Song 3</label><br>

    <label><input type="radio" name="Song" value="Song4" />Song 4</label><br>

    <br>

    <p><strong>Credit Card Number*</strong></p>

    <input type="text" name="creditcard" pattern="[0-9]{12}" required><br>

    <p><strong><h5>Note: Credit Card Number must be 12 digit
number</h5></strong></p>

    <br>

    <br>

    <div class="g-recaptcha" data-
sitekey="6LdSyp0UAAAAAIjKjVOfcqg6CsalgCWTllq1dmYg"></div>

    <button type="submit" onclick="Sample()">Submit</button>

  </form>

</div>

</body>

</html>
```