

# Capstone Project - Source Codes

## ICIN BANK

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**Date- 17-02-2023**

---

```
package icinTesting.ICIN_test;
```

```
/**
```

```
 * Hello world!
```

```
 */
```

```
*/
```

```
public class App
```

```
{
```

```
    public static void main( String[] args )
```

```
    {
```

```
        System.out.println( "Run the src/test/java" );
```

```
    }
```

```
}
```

```
package frontEndTesting;
```

```
import static org.testng.Assert.assertEquals;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.testng.annotations.AfterTest;
```

```
import org.testng.annotations.BeforeTest;
```

```
import org.testng.annotations.Test;
```

```
public class LoginTest {
```

```
    WebDriver driver;
```

@BeforeTest

```
public void setUp() {  
    System.setProperty("webdriver.chrome.driver",  
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting  
Workspace\\chromedriver.exe");  
  
    driver = new ChromeDriver();  
  
    driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);  
  
    driver.manage().window().maximize();  
  
    driver.get("localhost:4200/login");  
}
```

@Test

```
public void loginUser() throws InterruptedException {  
  
    driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co  
m");  
  
    driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");  
  
    driver.findElement(By.id("loginButton")).click();  
  
    Thread.sleep(1000L);  
  
    assertEquals(driver.getCurrentUrl(), "http://localhost:4200/user/home");  
  
}
```

@AfterTest

```
public void cleanUp() {  
    driver.close();  
}  
  
}
```

package frontEndTesting;

```
import static org.testng.Assert.assertEquals;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.Alert;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.openqa.selenium.support.ui.Select;
```

```
import org.testng.annotations.AfterTest;
```

```
import org.testng.annotations.BeforeTest;
```

```
import org.testng.annotations.Test;
```

```
public class DepositFundTest {
```

```
    WebDriver driver;
```

```
    @BeforeTest
```

```
    public void setUp() {
```

```
        System.setProperty("webdriver.chrome.driver",  
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting  
Workspace\\chromedriver.exe");
```

```
        driver = new ChromeDriver();
```

```
        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);
```

```
        driver.manage().window().maximize();
```

```
        driver.get("localhost:4200/login");
```

```
    }
```

```
    @Test
```

```
    public void depositFundInPrimaryAccount() throws InterruptedException {
```

```
        driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co  
m");
```

```
        driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");
```

```

        driver.findElement(By.id("loginButton")).click();

        driver.findElement(By.id("depositFundSection")).click();


        //Depositing money in primary account
        driver.findElement(By.id("amountToBeDeposited")).sendKeys("1000");


        driver.findElement(By.id("depositMoneyButton")).click();
        Thread.sleep(1000L);
        Alert alert = driver.switchTo().alert();
        String message = alert.getText();
        assertEquals(message, "Money deposited successfully!!");
        alert.accept();
    }

    @Test
    public void depositFundInSavingAccount() throws InterruptedException {

        driver.findElement(By.id("depositFundSection")).click();
        Select accounts = new Select(driver.findElement(By.id("accountType")));
        accounts.selectByIndex(1);

        //Depositing money in saving account
        driver.findElement(By.id("amountToBeDeposited")).sendKeys("1000");


        driver.findElement(By.id("depositMoneyButton")).click();
        Thread.sleep(1000L);
        Alert alert = driver.switchTo().alert();
        String message = alert.getText();
        assertEquals(message, "Money deposited successfully!!");
        alert.accept();
    }

    @AfterTest

```

```

        public void cleanUp() {
            driver.close();
        }
    }

package frontEndTesting;

import static org.testng.Assert.assertEquals;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class RegistrationTest {
    WebDriver driver;

    @BeforeTest
    public void setUp() {
        System.setProperty("webdriver.chrome.driver",
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting
Workspace\\chromedriver.exe");

        driver = new ChromeDriver();

        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

        driver.manage().window().maximize();

        driver.get("http://localhost:4200/register");
    }
}

```

@Test

public void registerUser() throws InterruptedException {

    //Personal Details

    driver.findElement(By.cssSelector("input[name='firstName']")).sendKeys("Test");

    driver.findElement(By.cssSelector("input[name='lastName']")).sendKeys("Test");

    driver.findElement(By.id("next")).click();

    assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/contactDetails");

    //Contact Details

    driver.findElement(By.cssSelector("input[name='email']")).sendKeys("test123@gmail.com");

    driver.findElement(By.cssSelector("input[name='phone']")).sendKeys("7788778877");

    driver.findElement(By.id("next")).click();

    assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/kycDetails");

    //Kyc Details

    driver.findElement(By.cssSelector("input[name='dob']")).click();

    driver.findElement(By.cssSelector("input[name='dob']")).sendKeys("02/02/2000");

    driver.findElement(By.cssSelector("input[name='pancard']")).sendKeys("GJOH19165");

    driver.findElement(By.id("next")).click();

    assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/addressDetails");

    //Address Details

    driver.findElement(By.cssSelector("input[name='addressLine1']")).sendKeys("C-1  
Silver Oaks");

    driver.findElement(By.cssSelector("input[name='addressLine2']")).sendKeys("SV  
Road");

    driver.findElement(By.cssSelector("input[name='addressLine3']")).sendKeys("Borivali");

    driver.findElement(By.cssSelector("input[name='addressLine4']")).sendKeys("Mumbai,  
Maharashtra");

```

        driver.findElement(By.cssSelector("input[name='addressLine5']")).sendKeys("400067");

        driver.findElement(By.id("next")).click();

        assertEquals(driver.getCurrentUrl(),
"http://localhost:4200/register/userRegistration");

//User Registration

driver.findElement(By.cssSelector("input[name='userName']")).sendKeys("ramkrishna");

driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");

driver.findElement(By.cssSelector("input[name='confirm_password']")).sendKeys("test@123
4");

        driver.findElement(By.cssSelector("input[name='tnc']")).click();
        driver.findElement(By.cssSelector("button[id='signUpButton']")).click();
        Thread.sleep(2000L);
        assertEquals(driver.getCurrentUrl(), "http://localhost:4200/login");

    }

@Test
public void registerUser2() throws InterruptedException {

        driver.get("http://localhost:4200/register");

        driver.findElement(By.cssSelector("input[name='firstName']")).sendKeys("Rajesh");
        driver.findElement(By.cssSelector("input[name='lastName']")).sendKeys("kumar");
        driver.findElement(By.id("next")).click();
        assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/contactDetails");

//Contact Details

```

```
driver.findElement(By.cssSelector("input[name='email']").sendKeys("rajeshkumar@gmail.com");
```

```
driver.findElement(By.cssSelector("input[name='phone']").sendKeys("8877887788");
```

```
driver.findElement(By.id("next")).click();
```

```
assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/kycDetails");
```

```
//Kyc Details
```

```
driver.findElement(By.cssSelector("input[name='dob']").click();
```

```
driver.findElement(By.cssSelector("input[name='dob']").sendKeys("02/02/2000");
```

```
driver.findElement(By.cssSelector("input[name='pancard']").sendKeys("GJOH19165");
```

```
driver.findElement(By.id("next")).click();
```

```
assertEquals(driver.getCurrentUrl(), "http://localhost:4200/register/addressDetails");
```

```
//Address Details
```

```
driver.findElement(By.cssSelector("input[name='addressLine1']").sendKeys("C-1 Silver Oaks");
```

```
driver.findElement(By.cssSelector("input[name='addressLine2']").sendKeys("SV Road");
```

```
driver.findElement(By.cssSelector("input[name='addressLine3']").sendKeys("Borivali");
```

```
driver.findElement(By.cssSelector("input[name='addressLine4']").sendKeys("Mumbai, Maharashtra");
```

```
driver.findElement(By.cssSelector("input[name='addressLine5']").sendKeys("400067");
```

```
driver.findElement(By.id("next")).click();
```

```
assertEquals(driver.getCurrentUrl(),  
"http://localhost:4200/register/userRegistration");
```

```
//User Registration
```

```
driver.findElement(By.cssSelector("input[name='userName']").sendKeys("ramkrishna");
```

```
driver.findElement(By.cssSelector("input[name='password']").sendKeys("test@1234");
```



```

        driver.findElement(By.cssSelector("input[name='confirm_password']").sendKeys("test@123
4");

        driver.findElement(By.cssSelector("input[name='tnc']").click();

        driver.findElement(By.cssSelector("button[id='signUpButton']").click();

        Thread.sleep(2000L);

        assertEquals(driver.getCurrentUrl(), "http://localhost:4200/login");

    }

    @AfterTest

    public void cleanUp() {

        driver.close();

    }

}

```

```

package frontEndTesting;

```

```

import static org.testng.Assert.assertEquals;

```

```

import java.util.concurrent.TimeUnit;

```

```

import org.openqa.selenium.Alert;

```

```

import org.openqa.selenium.By;

```

```

import org.openqa.selenium.WebDriver;

```

```

import org.openqa.selenium.chrome.ChromeDriver;

```

```

import org.testng.annotations.AfterTest;

```

```

import org.testng.annotations.BeforeTest;

```

```

import org.testng.annotations.Test;

```

```

public class RequestChequeBookTest {

```

```

WebDriver driver;

@BeforeTest

public void setUp() {

    System.setProperty("webdriver.chrome.driver",
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting
Workspace\\chromedriver.exe");

    driver = new ChromeDriver();

    driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

    driver.manage().window().maximize();

    driver.get("localhost:4200/login");

}

@Test

public void requestChequeBook() throws InterruptedException {

driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co
m");

driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");

    driver.findElement(By.id("loginButton")).click();

    driver.findElement(By.id("chequebookRequestLink")).click();

    driver.findElement(By.id("chequebookRequestPrimary")).click();

    driver.findElement(By.xpath("//button[text()='Submit Request']")).click();

    Thread.sleep(1000L);

    Alert alert = driver.switchTo().alert();

    String msg = alert.getText();

    alert.accept();

    assertEquals(msg, "Chequebook request submitted");

}

@AfterTest

public void cleanUp() {

```

```

        driver.close();
    }

}

package frontEndTesting;

import static org.testng.Assert.assertEquals;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import frontEndTesting.LoginTest;

public class TransferFundTest {

    WebDriver driver;

    @BeforeTest

    public void setUp() {

        System.setProperty("webdriver.chrome.driver",
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting
Workspace\\chromedriver.exe");

        driver = new ChromeDriver();

        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

        driver.manage().window().maximize();

        driver.get("localhost:4200");
    }
}

```

```
}
```

```
@Test
```

```
public void transferFund() throws InterruptedException {
```

```
driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co  
m");
```

```
driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");
```

```
driver.findElement(By.id("loginButton")).click();
```

```
driver.findElement(By.linkText("Transfer")).click();;
```

```
//Filling Up transfer fund form
```

```
driver.findElement(By.id("beneficiaryName")).sendKeys("Rajesh kumar");
```

```
driver.findElement(By.id("beneficiaryAccountNumber")).sendKeys("22113346");
```

```
driver.findElement(By.id("beneficiaryIFSCCode")).sendKeys("ICIN00105");
```

```
driver.findElement(By.id("amountToBeTransferred")).sendKeys("100");
```

```
driver.findElement(By.id("description")).sendKeys("Fund Transfer");
```

```
driver.findElement(By.id("transferFundButton")).click();
```

```
Thread.sleep(2000L);
```

```
Alert alert = driver.switchTo().alert();
```

```
String text = alert.getText();
```

```
System.out.println(text);
```

```
alert.accept();
```

```
assertEquals(text, "Transaction Successful");
```

```
driver.navigate().back();
```

```
}
```

```
@Test
```

```

public void transferFundGreaterThanBalance() throws InterruptedException {

    driver.findElement(By.linkText("Transfer")).click();

    //Filling Up transfer fund form
    driver.findElement(By.id("beneficiaryName")).sendKeys("Rajesh kumar");
    driver.findElement(By.id("beneficiaryAccountNumber")).sendKeys("22113346");
    driver.findElement(By.id("beneficiaryIFSCCode")).sendKeys("ICIN00105");
    driver.findElement(By.id("amountToBeTransferred")).sendKeys("10000");
    driver.findElement(By.id("description")).sendKeys("Fund Transfer");
    driver.findElement(By.id("transferFundButton")).click();
    Thread.sleep(2000L);
    Alert alert = driver.switchTo().alert();
    String text = alert.getText();
    System.out.println(text);
    alert.accept();
    assertEquals(text, "Insufficient funds");
    driver.navigate().back();

}

```

@Test

```

public void transferFundWithIncorrectAccountNumber() throws InterruptedException {

    driver.findElement(By.linkText("Transfer")).click();

    //Filling Up transfer fund form
    driver.findElement(By.id("beneficiaryName")).sendKeys("Rajesh kumar");
    driver.findElement(By.id("beneficiaryAccountNumber")).sendKeys("221133467");
    driver.findElement(By.id("beneficiaryIFSCCode")).sendKeys("ICIN00105");
    driver.findElement(By.id("amountToBeTransferred")).sendKeys("10");
}

```

```

        driver.findElement(By.id("description")).sendKeys("Fund Transfer");

        driver.findElement(By.id("transferFundButton")).click();

        Thread.sleep(2000L);

        Alert alert = driver.switchTo().alert();

        String text = alert.getText();

        System.out.println(text);

        alert.accept();

        //assertEquals(text, "Transaction failed Incorrect beneficiary account number");

        driver.navigate().back();

    }

```

```

        @AfterTest

        public void cleanUp() {

            driver.close();

        }

    }

```

```

package frontEndTesting;

```

```

import static org.testng.Assert.assertEquals;

```

```

import java.util.concurrent.TimeUnit;

```

```

import org.openqa.selenium.Alert;

```

```

import org.openqa.selenium.By;

```

```

import org.openqa.selenium.WebDriver;

```

```

import org.openqa.selenium.chrome.ChromeDriver;

```

```

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;


public class ViewPrimaryAccountTest {

    WebDriver driver;

    @BeforeTest

    public void setUp() {

        System.setProperty("webdriver.chrome.driver",
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting
Workspace\\chromedriver.exe");

        driver = new ChromeDriver();

        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

        driver.manage().window().maximize();

        driver.get("localhost:4200/login");

    }


    @Test

    public void requestChequeBook() throws InterruptedException {

        driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co
m");

        driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");

        driver.findElement(By.id("loginButton")).click();

        driver.findElement(By.id("viewPrimaryAccountDetails")).click();

        driver.navigate().back();

        driver.findElement(By.id("viewPrimaryAccountDetails")).click();

        //viewSavingAccountDetails

    }

```

```

        @AfterTest

        public void cleanUp() {

            driver.close();

        }

    }

package frontEndTesting;

import static org.testng.Assert.assertEquals;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class ViewSecondaryAccountTest {

    WebDriver driver;

    @BeforeTest

    public void setUp() {

        System.setProperty("webdriver.chrome.driver",
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting
Workspace\\chromedriver.exe");

        driver = new ChromeDriver();

```



```

        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

        driver.manage().window().maximize();

        driver.get("localhost:4200/login");

    }

    @Test

    public void requestChequeBook() throws InterruptedException {

        driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co
m");

        driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");

        driver.findElement(By.id("loginButton")).click();

        driver.findElement(By.id("viewSavingAccountDetails")).click();

        driver.navigate().back();

    }

    @AfterTest

    public void cleanUp() {

        driver.close();

    }

}

```

```

package frontEndTesting;

```

```
import static org.testng.Assert.assertEquals;
```

```
import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.Alert;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.openqa.selenium.support.ui.Select;
```

```
import org.testng.annotations.AfterTest;
```

```
import org.testng.annotations.BeforeTest;
```

```
import org.testng.annotations.Test;
```

```
public class WithdrawFundTest {
```

```
    WebDriver driver;
```

```
    @BeforeTest
```

```
    public void setUp() {
```

```
        System.setProperty("webdriver.chrome.driver",  
"C:\\Users\\Lenovo\\Desktop\\Comviva Training\\Phase 5\\SeleniumTesting  
Workspace\\chromedriver.exe");
```

```
        driver = new ChromeDriver();
```

```
        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);
```

```
        driver.manage().window().maximize();
```

```
        driver.get("localhost:4200/login");
```

```
    }
```

```
    @Test
```

```
    public void withdrawFundInPrimaryAccount() throws InterruptedException {
```

```
        driver.findElement(By.cssSelector("input[name='email']")).sendKeys("ramk42148@gmail.co  
m");
```

```

driver.findElement(By.cssSelector("input[name='password']")).sendKeys("test@1234");

driver.findElement(By.id("loginButton")).click();

driver.findElement(By.id("withdrawFudSection")).click();

//Depositing money in primary account
driver.findElement(By.id("amountToWithdrawn")).sendKeys("100");

driver.findElement(By.id("withdrawMoneyButton")).click();
Thread.sleep(1000L);
Alert alert = driver.switchTo().alert();
String message = alert.getText();
assertEquals(message, "Money Withdrawn successfully!!");
alert.accept();
}

@Test
public void withdrawFundInSavingAccount() throws InterruptedException {

driver.findElement(By.id("withdrawFudSection")).click();

Select accounts = new Select(driver.findElement(By.id("accountType")));
accounts.selectByIndex(1);

//Depositing money in saving account
driver.findElement(By.id("amountToWithdrawn")).sendKeys("100");

driver.findElement(By.id("withdrawMoneyButton")).click();
Thread.sleep(1000L);
Alert alert = driver.switchTo().alert();
String message = alert.getText();
assertEquals(message, "Money Withdrawn successfully!!");
alert.accept();
}

```

@Test

```
public void withdrawingAmountGreaterThanCurrentAmountForSavingsAccount() throws  
InterruptedException {
```

```
    Thread.sleep(1000L);  
    driver.navigate().back();  
    driver.findElement(By.id("withdrawFudSection")).click();  
    Select accounts = new Select(driver.findElement(By.id("accountType")));  
    accounts.selectByIndex(1);  
    //Depositing money in saving account  
    driver.findElement(By.id("amountToWithdrawn")).sendKeys("10000");  
  
    driver.findElement(By.id("withdrawMoneyButton")).click();  
    Thread.sleep(1000L);  
    Alert alert = driver.switchTo().alert();  
    String message = alert.getText();  
    assertEquals(message, "Insufficient Funds");  
    alert.accept();
```

```
}
```

@Test

```
public void withdrawingAmountGreaterThanCurrentAmountForPrimaryAccount() throws  
InterruptedException {
```

```
    driver.findElement(By.id("withdrawFudSection")).click();  
  
    //Depositing money in saving account  
    driver.findElement(By.id("amountToWithdrawn")).sendKeys("10000");  
  
    driver.findElement(By.id("withdrawMoneyButton")).click();  
    Thread.sleep(1000L);  
    Alert alert = driver.switchTo().alert();  
    String message = alert.getText();  
    assertEquals(message, "Insufficient Funds");
```

```
        alert.accept();
    }

    @AfterTest
    public void cleanUp() {
        driver.close();
    }
}
```