## **Internet Banking - Loan**

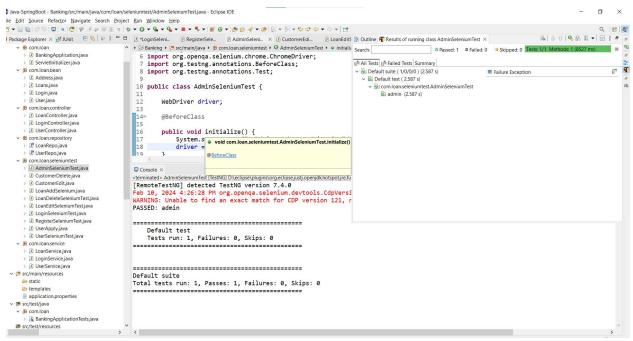


Fig 1: Admin Home

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**Package Explorer X glf JUnit E % IP 8 Baskets Sele. D AdminSeleni... D CustomerEdi... D **CustomerDelex X Loandd & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class CustomerDelete X & Outline & Results of running class Cust

    BankingApplication.java

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                     ServletInitializer.java

    ★ Bi Default suite (1/0/0/0) (2.305 s)
    ★ Default test (2.305 s)
    ★ com.loan.seleniumtest.CustomerDelete

                 Address.java
Loans.java
Login.java
User.java
                                                                                                                                                                                                                                                                                                                                                 customerDelete (2.305 s)
                                                                                                               ∨ ∰ com.loan.controller

☑ LoanController.iava

                    LoginController.java
                    DuserController.java
com.loan.repository
LoanRepo.java
UserRepo.java

√ 

⊞ com.loan.seleniumtest

                    AdminSeleniumTest.java
                 CustomerDelete.java
                                                                                                                   Uctionic X customerDelete [TestNG] D\eclipse\plugints\organise\text{precipies.justj.openjdkhotspotjre.full.wi
[RemoteTestNG] detected TestNG version 7.4.8
Feb 19, 2024 4:27:34 PM org.openqa.selenium.devtools.CdpVersi
WARNING: Unable to fiind an exact match for CDP version 121, r

    CustomerCelete.java
    CustomerEdit.java
    LoanAddSelenium.java
    LoanDeleteSeleniumTest.java
    LoanEditSeleniumTest.java
    LoginSeleniumTest.java
                                                                                                                  PASSED: customerDelete
                     RegisterSeleniumTest.java
                     UserApply.java
                                                                                                                              Default test
Tests run: 1, Failures: 0, Skips: 0

    DuserSeleniumTest.java
    UserSeleniumTest.java
    Com.loan.service
    LoanService.java
    LoginService.java
                                                                                                                   _____
                     UserService.java
      Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
               static
               templates
application.properties
src/test/java
                     BankingApplicationTests.java
       src/test/resources
```

Fig 2: Customer delete

```
a Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/CustomerEdit.java - Eclipse IDE
                                                                                                                                                                                                                                                                        п х
File Edit Source Refactor Navigate Search Project Bun Window Help
                                                                                                                                                                                                                                                 Q # 8
Passed: 1  Pailed: 0  Skipped: 0  Tests: 1/1 Methods: 1 (9484 m
        11
                                                                      WebDriver driver;

→ Bi Default suite ( 1/0/0/0 ) (4.008 s)

                                                                                                                                                                                                                         Failure Exception
                                                                      @BeforeClass
                                                                                                                                                                ∨ No Default test (4.008 s)
           Loans.java
                                                                                                                                                                    ∨ Mi com Ioan seleniumtest CustomerEdit
                                                                     public void initialize() {{
    System.setProperty("webdriver.chrome.driver", "dr
    driver = new ChromeDriver();

☑ Login.java

                                                                                                                                                                         customerEdit (4,008 s)
           User.iava
        com.loan.controller

2 LoanController.java

2 LoginController.java

3 UserController.java

com.loan.repository

1 LoanRepo.java

1 UserRepo.java
                                                           200
                                                                      public void customerEdit() {
    driver.get("http://localhost:4200/managecustomer
    driver.manage().window().setSize(new Dimensic
                                                           21

→ B com.loan.seleniumtest

           ⚠ AdminSeleniumTest.java
☒ CustomerDelete.iava
                                                         Console X

- deminated - Unstomefdit [TestNG] Dieclipselpluginkjorg.eclipse.justjopenjdkhotspot.jre.full.win3

[RemoteTestNG] detected TestNG version 7.4.0

Feb 10, 2024 4:28:12 PM org.openqa.selenium.devtools.CdpVersi
WARNING: Unable to find an exact match for CDP version 121, r
PASSED: customerEdit
           CustomerDelete, ava
CustomerEdit, ava
LoanAddSelenium, java
LoanDeleteSeleniumTest, java
LoanEditSeleniumTest, java
           LoginSeleniumTest.java
           RegisterSeleniumTest.iava
           UserApply.java
                                                                Default test
Tests run: 1, Failures: 0, Skips: 0
         D UserSelniumTest.java

□ UserSelneiumTest.java

□ LoanService.java

□ LoanService.java
                                                          _____
           UserService.java
                                                          Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

✓ (<sup>®</sup> src/main/resources)

         templates
     src/test/resources
```

Fig 3: Customer edit

```
Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/LoanAddSelenium.java - Eclipse IDE
 # Redage Explorer X dt JUnit E S P P P D RegisterSete. D AdminSeteni... D CustomerEdil... D *CustomerEdil... D *CustomerEdil...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B 0 0 0 0 E + E 1 # 2
                                                                                                                                                                                             WebDriver driver;
                                                                                                                                                               11
12

√ ∰ com.loan.bean

                              Address java
                              ☑ Address.java
☑ Loans.java
☑ Login.java
☑ User.java
                                                                                                                                                                                                                                                                                                                                                                                                                                                      @BeforeClass
                                                                                                                                                                                           public void initialize() {
    System.setProperty("webdriver.chrome.driver", "dr
    driver = new ChromeDriver();

→ 

⊕ com.loan.controller

→ 

D LoanController.java

                               LoginController.java

☑ UserController.iava

                                                                                                                                                          20°
21
22
                                                                                                                                                                                            public void loanAdd() {
    driver.get("http://localhost:4200/manageloan");
                              LoanRepo.java
UserRepo.java
                                                                                                                                                                                                                  driver.findElement(By.id("addloan")).click();
    driver.findElement(By.name("loanIa")).click()
    driver.findElement(By.name("loanIa")).elick()
    driver.findElement(By.name("loanType")).click
    driver.findElement(By.name("loanType")).sendk
    driver.findElement(By.name("loanAmount")).cli
    driver.findElement(By.name("loanAmount")).cli
    driver.findElement(By.name("loanEmi")).click()
    driver.findElement(By.name("loanEmi")).click();
    driver.findElement(By.name("loanIntrest")).click();
    driver.findElement(By.name("loanIntrest")).click();
    driver.findElement(By.name("loanIntrest")).click();
    driver.findElement(By.name("usenName")).click();
                              com.loan.seleniumtest

AdminSeleniumTest.java

CustomerDelete.java
                               CustomerEdit.java

☑ LoanAddSelenium.iava

                               ☐ LoanDeleteSeleniumTest.java
☐ LoanEditSeleniumTest.java
☐ LoginSeleniumTest.java
☐ RegisterSeleniumTest.java
                               UserApply.javaUserSeleniumTest.java
                  LoanService.iava
                               LoginService.iava
                        ☐ UserService.java

☐ UserService.java

src/main/resources

☐ static

☐ templates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BackingApplication | Dicelipse plugins/org eclipse just open dichotspot | refull win32x86_64_17.09x30231028-0858 yer bin | java were (10-feb-2024_102538 am) | pid: 29788]

1] o.s. web. servlet. DispatcherServlet : Initializing Servlet 'dispatcherServlet'

1] o.s. web. servlet. DispatcherServlet : Completed initialization in 2 ms

1,10 - loan intrest, 11 0 - loan type, 11 0 - user_accno, 11 0 - user_id, 11 0 - user_name from tbl_loan 11 0

1,10 - loan intrest, 11 0 - loan type, 11 0 - user_accno, 11 0 - user_id, 11 0 - user_name from tbl_loan 11 0 where 11 0 - loan_id=?

1,10 - loan_intrest, 11 0 - loan_type, 11 0 - user_accno, 11 0 - user_id, 11 0 - user_name from tbl_loan 11 0 where 11 0 - loan_id=?
                         application.properties
               / src/test/java
                  > <u>N</u> BankingApplicationTests.java
```

Fig 4: Loan add

```
a lava-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/LoanDeleteSeleniumTest java - Eclinse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         п

    com.loan
    BankingApplication.java

                                                                                                                stimport org.openqa.selenium.by;
4 import org.openqa.selenium.Dimension;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.testng.annotations.BeforeClass;
                                                                                                                                                                                                                                                                                                 Failed Tests Summary
                      Servletlnitializer.java

→ B com.loan.bean

                    Address java
                                                                                                                                                                                                                                                                                                             8 import org.testng.annotations.Test;
                                                                                                            10 public class LoanDeleteSeleniumTest {
11 WebDriver driver;
12
                      User.java
            ⚠ LoanController.iava
                Description of the complex of the co
                                                                                                                               @BeforeClass
                                                                                                                       public void initialize() {
   System.setProperty("webdriver.chrome.driver", "dr
   driver = new ChromeDriver();
}
                   LoanRepo.java
                     UserRepo.java

→ # com.loan.seleniumtest

AdminSeleniumTest.java
CustomerDelete.java
CustomerEdit.java
                                                                                                            200
                                                                                                                                   public void loanDelete() {
    driver.get("http://localhost:4200/manageloan");
    driver.manage().window().setSize(new Dimension(15
    driver.findElement(By.id("delbtn")).click();
                                                                                                              21
22
23
                     LoanAddSelenium.java
                 ☑ LoanEditSeleniumTest.iava
                                                                                                              25
26
27
                                                                                                                                  }
                      UserApply.java
                      UserSeleniumTest.java

→ B com.loan.service

                   In LoanService java
                                                                                                                                                                                                                                                                                                                                                                                                                                  <terminated> LoanDeleteSeleniumTest [TestNG] D\eclipse\plugins\org.eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (10-Feb-2024, 4:30:32 pm - 4:30:44 pm) [pid: 24544]
                 static
                 templates
                   BankingApplicationTests.java
          src/test/resources
```

Fig 5: Loan delete

```
0 X
Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/LoanEditSeleniumTest.java - Eclipse IDE
 File Edit Source Refactor Navigate Search Project Bun Window Help
                                                                                                                                                                                                                                             □ Registe/Sele. ② Admin/Selen. ③ Customerfol. ② *Customerfol. ② *Customerfol. ③ *Customerfol. ④ *Customerfol.
   🖺 Package Explorer × 🚜 JUnit 🕒 😤 🔝 🗎 🔲 📝 RegisterSele...

    BankingApplication.java

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ☐ All Tests ☐ Failed Tests Summary
                                                                                                                                                                                                                                                                                                                    public void loanEdit() {

    Default suite ( 1/0/0/0 ) (3.795 s)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Failure Exception
                                                                                                                                                                                                                                                                                                                                              driver.get("http://localhost:4200/manageloan");
                                                                                                                                                                                                                                                                                                                                                  driver.get("http://localhost:4200/manageloan");
driver.findElement(By.id("editbtn")).click();
driver.findElement(By.name("loanId")).clear()
driver.findElement(By.name("loanId")).clear()
driver.findElement(By.name("loanIppe")).clear
driver.findElement(By.name("loanIppe")).sendk
driver.findElement(By.name("loanAmount")).send
driver.findElement(By.name("loanAmount")).send
driver.findElement(By.name("loanEmi")).send
driver.findElement(By.name("loanEmi")).send
driver.findElement(By.name("loanIntrest")).cl
driver.findElement(By.name("loanIntrest")).send
driver.findElement(By.name("userName")).clear
driver.findElement(By.name("userName")).send
driver.findElement(By.name("userName")).send
driver.findElement(By.name("userName")).send
driver.findElement(By.name("userAccNo")).send
driver.findElement(By.name("userAccNo")).send
driver.findElement(By.name("userId")).send
driver.findElement(By.name("userId")).gend
driver.findElement(By.name("userId")).gend
driver.findElement(By.name("userId")).gend
driver.findElement(By.name("userId")).gend
driver.findElement(By.name("userId")).gend
driver.fin

→ Bi Default test (3.795 s)

→ Mi com.loan.seleniumtest.LoanEditSeleniumTest

                                                   Loans.java
                                                   Login.java
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   loanEdit (3.795 s)
                                                   User.java

→ B com.loan.controller

    LoanController.java
    LoginController.java
    UserController.java
    com.loan.repository

                                                   LoanRepo.java
                                                   UserRepo.java
                                                   AdminSeleniumTest.iava

AdminSeleniumTest,java
AdminSeleniumTest,java

CustomerDelete,java

CustomerEditjava

CoanAddSeleniumJava

CoanDeleteSeleniumTest,java

LoanEditSeleniumTest,java
                                                   LoginSeleniumTest.java
                                                                                                                                                                                                                                                                                                                                                                               driver.findElement(By.name("save")).cl
                                                   RegisterSeleniumTest.java
                                     ☐ NegisterseleniumTestja

☐ UserApply.java

☐ UserSeleniumTestjava

☐ con.loan.service
                                                                                                                                                                                                                                                                                                              }
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                                                                                                                                                                                                                                                                       43 }

    LoanService.java
    LoginService.java

                                                   UserService.java
                                                                                                                                                                                                                                                           BankingApplication | Discripselyluginslorgedipse justjoepidkhotspot.jer.fullwin32x86_64_17.09x20231028-0858]verbin\nawxee (10-feb-2024_102538 am) [pid: 27883]

1.1 0. loan intrest, 11 0. loan type, 11 0. user accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0 where 11_0.loan_id=?

1.1 0. loan intrest, 11 0. loan type, 11 0. user accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0.

1.1 0. loan intrest, 11 0. loan type, 11 0. user accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0.

1.1 0. loan intrest, 11 0. loan type, 11 0. user accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0.

1.1 0. loan intrest, 11 0. loan type, 11 0. user_accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0.

1.1 0. loan_intrest, 11 0. loan_type, 11 0. user_accno, 11 0. user_id, 11 0. user_name from tbl loan 11 0.

√ 

// src/main/resources

→ 

| com.loan
| 
                                                   BankingApplicationTests.java
```

Fig 6: Loan edit

```
© Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/LoginSeleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Seleniumtest/Sele
 Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/LoginSeleniumTest.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              o x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R | 0 0 | 0 R E + | E | #
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        © Passed: 1 © Failed: 0 © Skipped: 0 Tests: 1/1 Methods: 1 (9837 m
                      > ☑ Servletlnitializer.java

> ∰ com.loan.bean

> ☑ Address.java

→ Bi Default suite (1/0/0/0) (3.516 s)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Failure Exception
                                                                                                                                                                                                          12 public class LoginSeleniumTest {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ∨ Mi Default test ( 3.516 s)
                                        Loans.java

→ Bil com.loan.seleniumtest.LoginSeleniumTest

                                                                                                                                                                                                                                             WebDriver driver;

⚠ Login.iava

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            login (3.516 s)
                                        D User java

    ☑ LoanController.java
    ☑ LoginController.java
    ☑ UserController.java

                                                                                                                                                                                                                                               public void initialize() {
   System.setProperty("webdriver.chrome.driver", "dr
   driver = new ChromeDriver();
                                                                                                                                                                                                          18
                                                                                                                                                                                                          19
                                 # com.loan.repository
                                        LoanRepo.java
                                          UserRepo.iava
                                                                                                                                                                                                                                               public void login() {
    driver.get("http://localhost:4200/");
    driver.manage().window().setSize(new Dimension(15));

    AdminSeleniumTest java

                                                                                                                                                                                                                                                                     driver.findElement(By.linkText("Login")).click();
driver.findElement(By.id("email")).click();
driver.findElement(By.id("email")).endkeys("jeyz
driver.findElement(By.id("password")).click();
driver.findElement(By.id("password")).endkeys("j
driver.findElement(By.cssSelector(".bhr")).click();
                                          LoanDeleteSeleniumTest.java
                                          ⚠ LoanEditSeleniumTest.java
                                       LoginSeleniumTest.iava

    D LoginSeleniumTest,java
    RegisterSeleniumTest,java
    D UserApply,java
    UserSeleniumTest,java
    UserSeleniumTest,java
    D LoanService,java
    D LoanService,java
                                                                                                                                                                                                          34 }
35
                                          LoginService.java
                                          UserService.java

    src/main/resources

                                                                                                                                                                                                       < terminated > LoginSeleniumTest [TestNG] \ D \land eclipse \land plugins \land org. eclipse justj. openjdk hotspot/jre.full.win32.x86\_64\_17.0.9.v20231028-0858 \ jre \ bin \ javaw.exe \ (10-Feb-2024, 433:16 \ pm - 433:29 \ pm) \ [pid: 13416] \ description for the plugins \ 
                            b static
templates
application.properties
sc/test/java
                                                                                                                                                                                                       Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
                                  > A BankingApplicationTests.java
                     src/test/resources
```

Fig 7: Login

```
Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/RegisterSeleniumTest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Bun Window Help
& | 0 0 | 0 0 E + | E 1
          Passed: 1  Failed: 0  Skipped: 0  Tests: 1/1 Me

    ★ Default suite (1/0/0/0) (3.263 s)
    ★ Default test (3.263 s)
    ★ Com.loan.seleniumtest.RegisterSeleniumTest
    ★ register (3.263 s)

√ ∰ com.loan.bean

                                                                                                            3⊖import org.openqa.selenium.By;
                                                                                                                                                                                                                                                                                                                                                                                                Failure Exception
                                                                                                           # import org.openqa.selenium.by

# import org.openqa.selenium.Upimension;

# import org.openqa.selenium.WebDriver;

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

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

# import org.openqa.selenium.chrome.BeforeClass;
                 > Address.iava
                 > D Loans.iava

√ ∰ com.loan.controller

                                                                                                           8 import org.testng.annotations.Test;
                                                                                                       10 public class RegisterSeleniumTest {
11 WebDriver driver;
12
                    LoanController.java
               Department of the composition of
                                                                                                                             System.setProperty("webdriver
driver = new ChromeDriver();
                    AdminSeleniumTest.java

CustomerDelete.java
CustomerEdit.java
                    LoanAddSelenium.java
                                                                                                         19<sup>8</sup>
                                                                                                                              public void register() {
    driver.get("http://localhost:4200/");
    driver.manage().window().setSize(new Dimension(15));
                    LoanDeleteSeleniumTest.java
                    LoanEditSeleniumTest.iava
                    ⚠ LoginSeleniumTest.java
⚠ RegisterSeleniumTest.java
                                                                                                                                          driver.findElement(By.linkText("Register")).click();
                    UserApply.java
                                                                                                                                          driver.findElement(By.name("id")).click();
driver.findElement(By.name("id")).sendKeys("45");
driver.findElement(By.name("name")).click();
                    ☑ UserSeleniumTest.iava

→ 

# com.loan.service

                    ☐ LoanService.java
☐ LoginService.java
☐ UserService.java
                                                                                                       □ Console ×
      <terminated> RegisterSeleniumTest [TestNG] D\eclipse\plugins\org.eclipse\plugins\org.eclipse.giustj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9v20231028-0858\jre\bin\javaw.exe (10-Feb-2024, 434.00 pm - 434.12 pm) [pid: 18788]
                static
                                                                                                                  Default test
                                                                                                                   Tests run: 1, Failures: 0, Skips: 0

→ 

B com.loan

                   BankingApplicationTests.java
          src/test/resources
                                                                                                 v -----
```

Fig 8: Register

```
Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/UserApply.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
 B | 0 0 | 0 B | ▼ | H | #
  \rm Package Explorer x 🚜 Unit 🕒 🕏 💲 💌 🗓 utoginSeleni... 🖟 RegisterSele... 🖟 AdminSeleni... 🖟 CustomerEdi... 🖟 CustomerEdi... 🖟 CustomerEdi...
                                                                                                                                                                                                    > 

Banking > 

src/main/java > 

com.loan.seleniumtest > 

UserApply > 

apply0 : void Search:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ☐ Passed: 1 ☐ Failed: 0 ☐ Skipped: 0 Tests: 1/1 Methods: 1 (9729 ms
                                                                                                                                                                                                                                           my s_armani/mav } the constanted with the property of the pro
                                      BankingApplication.java
                                       ServletInitializer.java

→ B com,loan,bean

                                       Address.java

→ i com.loan.seleniumtest.UserApply

                                       Login.java
                                       User.java

→ 

⊕ com.loan.controller

                                    LoanController.java
                       > ② LoginController.java
> ② LoginController.java
> ② UserController.java

• ■ com.loan.repository
                                       WebElement element = driver.findElement(By.cssSelec
                                                                                                                                                                                                                                                        Actions builder = new Actions(driver);
builder.moveToElement(element).perform();

→ m com.loan.seleniumtest

    AdminSeleniumTest.java
    CustomerDelete.java
    CustomerEdit.java

                                                                                                                                                                                                                                                          WebElement element = driver.findElement(By.tagName(
                                                                                                                                                                                                                                                        Actions builder = new Actions(driver);
builder.moveToElement(element, 0, 0).perform();
                                                                                                                                                                                                       49
50
                                       LoanDeleteSeleniumTest.java

☑ LoanEditSeleniumTest.iava

                                      ☐ LoginSeleniumTest.jav
☐ RegisterSeleniumTest
☐ UserApply.java
                                                                                                                                                                                                                                                          Actions builder = new Actions(driver);
builder.moveToElement(element).perform();
                                         UserSeleniumTest.java

→ (B) com.loan.service

                                       LoanService.iava

    LoginService.java
    DuserService.java
    UserService.java
    Serc/main/resources
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BankingApplication [Java Application] D\eclipse\plugins\org.eclipse.justi.openidkhotspot.jre.full.win32.x86 64 17.0.9.v20231028-0858\jre\bin\javaw.exe (10-Feb-2024, 10:25:38 am) [pid: 29788]
                                                                                                                                                                                                beaning-pointation java application juva application juva

➢ static

    bemplates
    bemplates
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    complates
    complat
                                application.properties
```

Fig 9: Apply loan

```
Java-SpringBoot - Banking/src/main/java/com/loan/seleniumtest/UserSeleniumTest.java - Eclipse IDE
RIA OLO. D. EVIELS
                                                                                                                                                                             Passed: 1 Failed: 0 Skipped: 0 Tests: 1/1 Me

ServletInitializer.java
com.loan.bean

Address.java
                                                                                                                                                ☐ All Tests ☐ Failed Tests Summary
                                                        3@import org.openga.selenium.By;

→ Bi Default suite (1/0/0/0) (2.299 s)

                                                                                                                                                                                                       Failure Exception
                                                        import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.Chrome.ChromeDriver;
import org.testng.annotations.BeforeClass;
                                                                                                                                                   ∨ Default test (2.299 s)
         D Loans.java

→ Bi com.loan.seleniumtest.UserSeleniumTest

          D Login.java
                                                                                                                                                           is user (2.299 s)
      > ② User.java

> ② Loser.java

- ② com.loan.controller

> ② LoanController.java

> ② LoginController.java
                                                        8 import org.testng.annotations.Test;
                                                      10 public class UserSeleniumTest {
                                                                 WebDriver driver;
          UserController.java

→ 

⊕ com.loan.repository

                                                                @BeforeClass
          If LoanReno java
                                                                public void initialize() {
    System.setProperty("webdriver.chrome.driver", "dr
    driver = new ChromeDriver();
          AdminSeleniumTest.java
         CustomerDelete.java
          CustomerEdit.iava
           LoanAddSelenium.java

    ☑ LoanDeleteSeleniumTest.java
    ☑ LoanEditSeleniumTest.java

                                                                 public void user() {
    driver.get("http://localhost:4200/user");
    driver.manage().window().setSize(new Dimension(15
    driver.findElement(By.cssSelector(".menu-btn")).click();
          LoginSeleniumTest.javaRegisterSeleniumTest.java
           UserApply.java
          U userAppry,Java
U userSeleniumTest.java
com.loan.service
U LoanService.java
                                                     26 }
27
          LoginService.java
          UserService.java

→ (** src/main/resources*)

                                                           inated > UserSeleniumTest [TestNG] D\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (10-Feb-2024, 4:35:29 pm - 4:35:41 pm) [pid: 8020]
                                                     Default suite
                                                      Total tests run: 1. Passes: 1. Failures: 0. Skips: 0
         application.properties

▼ 

『

■ src/test/java

→ I com,loan

          BankingApplicationTests.java
```

Fig 10: User home