

Project Documentation: Selenium Automation for Expense Management System

Project Name: Expense Management System Automation

Objective:

To automate the process of logging into the CRM Expense Portal and creating a new expense entry including date selection, dropdown interactions, file uploads, and form submissions using Selenium WebDriver with Java.

Tools & Technologies:

- **Language:** Java
 - **Automation Tool:** Selenium WebDriver
 - **Browser:** Chrome
 - **Dependency Management:** WebDriverManager
-

Pre-requisites:

- JDK installed and configured
 - Chrome browser installed
 - ChromeDriver managed via WebDriverManager
 - Eclipse or IntelliJ IDE for Java
-

Test Steps Performed:

Step 1: Launch Browser & Open CRM URL

- Launch Chrome using WebDriverManager.
- Navigate to: `https://crmexp.cerebulb.com/login`

Step 2: Login to Application

- Enter email: `rohan.parikh@cerebulb.com`
- Enter password: `Cerebulb@123`
- Click the **Login** button.

Step 3: Navigate to Add Expense Page

- Click on the **"Add New Expense"** button (via JavaScript executor).

Step 4: Fill Trip Details (Form 1)

- Select **Trip Start Date** (example: 15th)
- Select **Trip Completion Date** (example: 20th)
- Choose **Trip Member:** `Rutvik Sharma`

- Select **Client:** HH. (CLT-2025-000032)
- Enter **Purpose of Trip:** Client Visit to Delhi Office
- Enter **Trip Description:** Attending 3-day client strategy meeting in Delhi.
- Select **Team Lead:** Mahesh Makwana
- Select **Project Manager:** Alok Sahijwani
- Click **Save & Continue**

Step 5: Fill Expense Table Entry (Form 2)

- Select **Date:** 05-07-2025
- Select **Time Slot:** 06:00 - 12:00
- Select **Category:** Fuel
- Select **Sub-category:** Diesel
- Enter **Description:** Meeting
- Enter **Amount:** 1500
- Select **Payment Mode:** Paid By Company
- Select **Trip Member:** Rohan Parekh
- Select **Client:** HH. (CLT-2025-000032)
- Enter **Location:** Mumbai
- Enter **Note:** Project meeting notes
- Upload **PDF file:** ahmedabad-dwarka.pdf

Step 6: Submit Form

- Click on **Save** button to add the entry.

Step 7: Close Browser

- Use `driver.close()` to end session.

Full Java Code:

```
package Testcase;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.JavascriptExecutor;
import io.github.bonigarcia.wdm.WebDriverManager;
import java.time.Duration;

public class MyFirstTest {

    public static void main(String[] args) throws InterruptedException {

        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver();
```

```

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
driver.get("https://crmexp.cerebulb.com/login");

driver.findElement(By.xpath("/html/body/div[1]/div/div/div/div/div/
div[2]/div/div[3]/form/div/div[1]/div/div/div/div[3]/input"))
    .sendKeys("rohan.parikh@cerebulb.com");

driver.findElement(By.xpath("/html/body/div[1]/div/div/div/div/div/
div[2]/div/div[3]/form/div/div[2]/div[1]/div/div/div[3]/input"))
    .sendKeys("Cerebulb@123");

driver.findElement(By.xpath("/html/body/div[1]/div/div/div/div/div/
div[2]/div/div[3]/form/div/div[2]/button"))
    .click();

WebElement addExpenseBtn = driver.findElement(By.xpath("//
a[normalize-space()='Add New Expense']"));
((JavascriptExecutor) driver).executeScript("arguments[0].click();",
addExpenseBtn);

WebElement dateInput = driver.findElement(By.xpath("//
input[@placeholder='Trip Start Date *']"));
dateInput.click();
Thread.sleep(1000);
WebElement dateToSelect = driver.findElement(By.xpath("/html/body/
div[3]/div[2]/div/div[2]/div/span[5]"));
dateToSelect.click();

WebElement dateInput1 = driver.findElement(By.xpath("//
input[@placeholder='Trip Completion Date *']"));
dateInput1.click();
Thread.sleep(1000);
WebElement dateToSelect1 = driver.findElement(By.xpath("/html/body/
div[4]/div[2]/div/div[2]/div/span[10]"));
dateToSelect1.click();

WebElement dropdownOpen = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[1]/div/
div[1]/div/div[3]/div/div/div/div[5]"));
dropdownOpen.click();
Thread.sleep(1000);
WebElement rutvikSelect = driver.findElement(By.xpath("//
div[contains(@class,'v-overlay')]/div[text()='Rutvik Sharma']"));
rutvikSelect.click();

WebElement clientDropdown = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[1]/div/
div[1]/div/div[4]/div/div/div/div[5]"));
clientDropdown.click();
Thread.sleep(1000);
WebElement clientSelect = driver.findElement(By.xpath("//

```

```

div[contains(@class,'v-overlay')]/div[text()='HH. (CLT-2025-000032)']"));
    clientSelect.click();

    WebElement purposeInput = driver.findElement(By.xpath("//
input[@placeholder='Purpose Of Trip *']"));
    purposeInput.sendKeys("Client Visit to Delhi Office");

    WebElement tripDescriptionInput = driver.findElement(By.xpath("//
input[@placeholder='Trip Description *']"));
    tripDescriptionInput.sendKeys("Attending 3-day client strategy
meeting in Delhi.");

    WebElement teamLeadDropdownIcon = driver.findElement(By.xpath("//
i[contains(@class,'v-select__menu-icon') and contains(@class,'ri-arrow-down-
s-line')]"));
    teamLeadDropdownIcon.click();
    Thread.sleep(1000);
    WebElement teamLeadOption = driver.findElement(By.xpath("//
div[contains(@class,'v-overlay')]/div[text()='Mahesh Makwana']"));
    teamLeadOption.click();

    WebElement projectManagerDropdown = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/
form[1]/div/div[1]/div/div[8]/div/div/div/div[3]/div"));
    projectManagerDropdown.click();
    Thread.sleep(1000);
    WebElement alokOption = driver.findElement(By.xpath("//
div[contains(@class,'v-overlay')]/div[text()='Alok Sahijwani']"));
    alokOption.click();

    WebElement saveContinueBtn = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[1]/div/
div[2]/button/span[3]"));
    saveContinueBtn.click();

    WebElement dropdownInput = driver.findElement(By.xpath("//
*[@id=\"app\"]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[1]/td[2]/div/div[1]/div/div[3]/div"));
    dropdownInput.click();
    Thread.sleep(1000);
    WebElement dateToSelect11 = driver.findElement(By.xpath("//
div[contains(@class,'v-overlay')]/div[contains(text(),'05-07-2025')]"));
    dateToSelect11.click();

    WebElement dropdownInput1 = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[1]/td[3]/div/div[1]/div/div[3]/div"));
    dropdownInput1.click();
    Thread.sleep(1000);
    WebElement dropElement = driver.findElement(By.xpath("//
div[contains(text(),'06:00 - 12:00')]"));

```

```

dropElement.click();

WebElement dropdownInput11 = driver.findElement(By.xpath("//
*[@id=\"app\"]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[1]/td[4]/div/div[1]/div/div[3]"));
dropdownInput11.click();
Thread.sleep(1000);
WebElement dropElement1 = driver.findElement(By.xpath("//
div[contains(text(),'Fuel')]"));
dropElement1.click();

WebElement subCategoryInput = driver.findElement(By.xpath("//
*[@id=\"app\"]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[1]/td[5]/div/div[1]/div/div[3]/div"));
subCategoryInput.click();
Thread.sleep(1000);
WebElement dropElement11 = driver.findElement(By.xpath("//
div[@class='v-list-item-title']"));
dropElement11.click();

WebElement descriptionField = driver.findElement(By.xpath("/html/
body/div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[1]/td[6]/div/div[1]/div/div[3]/input"));
descriptionField.click();
Thread.sleep(1000);
descriptionField.sendKeys("Meeting");

WebElement amountField = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[1]/td[7]/div/div[1]/div/div[3]/input"));
amountField.click();
Thread.sleep(500);
amountField.sendKeys("1500");

WebElement dropdownIcon1 = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[1]/td[8]/div/button[1]/span[3]/i"));
dropdownIcon1.click();

WebElement paymentDropdown = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[1]/div/div[1]/div/div[3]/
div"));
paymentDropdown.click();
Thread.sleep(1000);
WebElement paidByCompanyOption = driver.findElement(By.xpath("//
div[contains(@class,'v-overlay')]/div[normalize-space()='Paid By
Company']"));
paidByCompanyOption.click();

WebElement tripMemberDropdown = driver.findElement(By.xpath("/html/

```

```

body/div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[2]/div/div[1]/div/
div[3]/div/input"));
    tripMemberDropdown.click();
    Thread.sleep(1000);
    WebElement rohanParekhOption = driver.findElement(By.xpath("/html/
body/div[2]/div[2]/div[1]/div[1]/div[2]/div[2]/div[1]"));
    rohanParekhOption.click();

    WebElement clientDropdown1 = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[3]/div/div[1]/div/div[3]/
div/input"));
    clientDropdown1.click();
    Thread.sleep(1000);
    WebElement hhClientOption = driver.findElement(By.xpath("/html/body/
div[2]/div[2]/div[1]/div[1]/div[2]/div[2]/div[1]"));
    hhClientOption.click();

    WebElement locationDropdown = driver.findElement(By.xpath("/html/
body/div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/
div[1]/div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[4]/div/div[1]/div/
div[3]/input"));
    locationDropdown.click();
    Thread.sleep(1000);
    WebElement locationInput = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[4]/div/div[1]/div/div[3]/
input"));
    locationInput.sendKeys("Mumbai");

    WebElement noteInput = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[5]/div/div[1]/div/div[3]/
input"));
    noteInput.sendKeys("Project meeting notes");

    WebElement attachmentIcon = driver.findElement(By.xpath("/html/body/
div[1]/div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/
div[1]/div/div/table/tbody/tr[2]/td/div/div/div/div[6]/div/div[1]"));
    attachmentIcon.click();
    WebElement fileUpload = driver.findElement(By.xpath("//
input[@type='file']"));
    fileUpload.sendKeys("C:\\Users\\Harshal Oza\\Downloads\\ahmedabad-
dwarka.pdf");

    WebElement saveBtn = driver.findElement(By.xpath("/html/body/div[1]/
div/div/div/div/div[1]/main/div/div[2]/div/div/div[2]/form[2]/div[1]/div[1]/
div/div/table/tbody/tr[2]/td/div/div/div/div[7]/button"));
    saveBtn.click();

```

```
        driver.close();  
    }  
}
```

Author: Harshal Oza\ **Automation Tester @ Cerebulb**