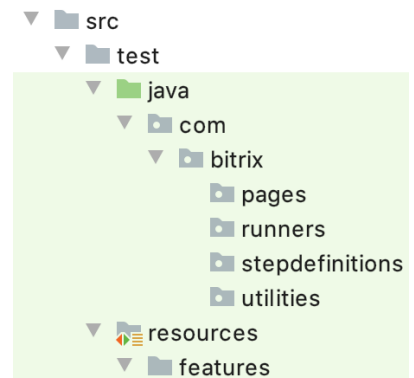


## Description

In this assignment you will create an automated testing framework for testing Zero online banking application. The framework will use Cucumber BDD and Selenium.

## Project set up

1. Create a maven project. Use group-id *com.zerobank* and artifact-id *zerobank-automation*. Add all the required dependencies for Cucumber and Selenium to the pom file. Also add required plugins for HTML reporting with cucumber.
2. Under *src/test/java* create following packages:
  - a. *com.zerobank.pages*
  - b. *com.zerobank.runners*
  - c. *com.zerobank.stepdefinitions*
  - d. *com.zerobank.utilities*
3. Under *src/test* create following directory *resources*. Mark the new *resources* directory as a *test resource folder*.
4. Under the *src/test/resources* create new folder *features*.



NOTE: This picture shows what packages you should have up completion of steps 1 to 4.

5. Under the project folder add file *configuration.properties*.
6. Under *utilities* package create *ConfigurationReader* which reads from the properties file.
7. Under *utilities* package create *Driver* utility which can create a new web driver object based on value from *configuration.properties*.
8. Under *utilities* package create *BrowserUtils* based on the example shown in the class. You can more methods to this utility as you see fit.
9. Under *runner* package create *CukesRunner* based on the example shown in the class. In this class you can use any CucumberOptions as you see fit.

## Automate login functionality

### Login.feature

Write scenarios based on the given functionality and automate them in new feature file **Login.feature**.

- Only authorized users should be able to login to the application. When user logs in with valid credentials, Account summary page should be displayed.
- Users with wrong username or wrong password should not be able to login. Users with blank username or password should also not be able to login. When user tries to login with invalid information, error message **Login and/or password are wrong**. should be displayed.

## HTML Report

Add html reporting capability to your framework using the maven cucumber reporting. HTML report must contain screenshots for failed tests.

## Parallel run

Add parallelization to your framework. Parallelization must be on the feature level (scenario level is optional for this assignment).

## Feature files

Write feature files based on the following requirements. Create one feature file per requirement. Each feature file can have multiple requirements.

### Account summary

Account summary page should have the title *Zero – Account summary*. Account summary page should have to following account types: *Cash Accounts, Investment Accounts, Credit Accounts, Loan Accounts*. Credit Accounts table must have columns *Account, Credit Card* and *Balance*.

## Account Activity

Account Activity page should have the title *Zero – Account activity*.

In the Account drop down default option should be *Savings*. Account drop down should have the following options: *Savings, Checking, Loan, Credit Card, Brokerage*. Transactions table should have column names *Date, Description, Deposit, Withdrawal*.

## Pay Bills

Account Activity page should have the title *Zero – Pay Bills*. When user completes a successful Pay operation, *The payment was successfully submitted*. should be displayed. When user tries to make a payment without entering the amount or date, *Please fill out this field message!* should be displayed.

Amount field should not accept alphabetical or special characters. Date field should not accept alphabetical characters.

NOTE: For the date input field, you can just use sendKeys. No need to click on the date navigator.

## Automate following scenarios

NOTE: You can modify the feature files based on your needs

### AccountActivityNavigation.feature

**Feature:** Navigating to specific accounts in Accounts Activity

**Scenario:** Savings account redirect

**Given** the user is logged in

**When** the user clicks on Savings link on the Account Summary page

**Then** the *Account Activity* page should be displayed

**And** Account drop down should have *Savings* selected

**Scenario:** Brokerage account redirect

**Given** the user is logged in

**When** the user clicks on Brokerage link on the Account Summary page

**Then** the *Account Activity* page should be displayed

**And** Account drop down should have *Brokerage* selected



**Scenario:** Checking account redirect

**Given** the user is logged in

**When** the user clicks on Checking link on the Account Summary page

**Then** the *Account Activity* page should be displayed

**And** Account drop down should have *Checking* selected

**Scenario:** Credit Card account redirect

**Given** the user is logged in

**When** the user clicks on Credit card link on the Account Summary page

**Then** the *Account Activity* page should be displayed

**And** Account drop down should have *Credit Card* selected

**Scenario:** Loan account redirect

**Given** the user is logged in

**When** the user clicks on Loan link on the Account Summary page

**Then** the *Account Activity* page should be displayed

**And** Account drop down should have *Loan* selected

## FindTransactions.feature

**Feature:** Find Transactions in Account Activity

**Scenario:** Search date range

**Given** the user accesses the Find Transactions tab

**When** the user enters date range from "2012-09-01" to "2012-09-06"

**And** clicks search

**Then** results table should only show transactions dates between "2012-09-01" to "2012-09-06"

**And** the results should be sorted by most recent date

**When** the user enters date range from "2012-09-02" to "2012-09-06"

**And** clicks search

**Then** results table should only show transactions dates between "2012-09-02" to "2012-09-06"

**And** the results table should only not contain transactions dated "2012-09-01"

**Scenario:** Search description

**Given** the user accesses the Find Transactions tab

**When** the user enters description "ONLINE"

**And** clicks search

**Then** results table should only show descriptions containing "ONLINE"

**When** the user enters description "OFFICE"

**And** clicks search

**Then** results table should only show descriptions containing "OFFICE"

**But** results table should not show descriptions containing "OFFICE"

**Scenario:** Search description case insensitive

**Given** the user accesses the Find Transactions tab

**When** the user enters description "ONLINE"

**And** clicks search

**Then** results table should only show descriptions containing "ONLINE"

**When** the user enters description "online"

**And** clicks search

**Then** results table should only show descriptions containing "ONLINE"

**Scenario:** Type

**Given** the user accesses the Find Transactions tab

**And** clicks search

**Then** results table should show at least one result under Deposit

**Then** results table should show at least one result under Withdrawal

**When** user selects type "Deposit"

**Then** results table should show at least one result under Deposit

**But** results table should show no result under Withdrawal

**When** user selects type "Withdrawal"

**Then** results table should show at least one result under Withdrawal

**But** results table should show no result under Deposit

### Add New Payee.feature

**Feature:** Add new payee under pay bills

**Scenario:** Add a new payee

**Given** Add New Payee tab

**And** creates new payee using following information

Payee Name	The Law Offices of Hyde, Price & Scharks
Payee Address	100 Same st, Anytown, USA, 10001
Account	Checking
Payee details	XYZ account

**Then** message **The new payee The Law Offices of Hyde, Price & Scharks was successfully created.** should be displayed

### PurchaseForeignCurrency.feature

**Feature:** Purchase Foreign Currency

**Scenario:** Available currencies

**Given** the user accesses the Purchase foreign currency cash tab

**Then** following currencies should be available

Australia (dollar)	
Canada (dollar)	
Switzerland (franc)	
China (yuan)	
Denmark (krone)	
Eurozone (euro)	
Great Britain (pound)	
Japan (yen)	
Mexico (peso)	
Norway (krone)	
New Zealand (dollar)	
Singapore (dollar)	

**Scenario:** Error message for not selecting currency

**Given** the user accesses the Purchase foreign currency cash tab

**When** user tries to calculate cost without selecting a currency

**Then** error message should be displayed

**Scenario:** Error message for not entering value



**Given** the user accesses the Purchase foreign currency cash tab  
**When** user tries to calculate cost without entering a value  
**Then** error message should be displayed

### StatementsAndDocuments.feature

**Feature:** Statements and Documents details

**Scenario Outline:** Recent statements per year

**Given** the user accesses the Statements & Documents tab  
**When** the user selects the Recent Statements Year <year>  
**Then** <count> statements should be displayed for that year

**Examples:**

year	count
2009	2
2010	2
2011	2
2012	1

**Scenario Outline:** Download statements

**Given** the user accesses the Statements & Documents tab  
**And** the user selects the Recent Statements Year <year>  
**When** the user clicks on statement "<statement>"  
**Then** the downloaded file name should contain "<name>"  
**And** the file type should be pdf

**Examples:**

year	statement	name
2009	Statement 31/11/09(57K)	31-11-09
2010	Statement 01/12/10(57K)	01-12-10
2011	Statement 05/12/11(57K)	05-12-11
2012	Statement 01/10/12(57K)	01-10-12