1.Problem statement:

Process	Steps To Execute	Expected Results
Add a category	1. Login to admin portal 2. Add new category using excel and dataprovider. 3. Go to list all category option under show entries	1. Validate the presence of the added category. 2. Verify the presence of added category under "Shop By Category" on the user page. https://atozgroceries.com/

2. code with comments:

Login.java Prg:

```java
package com.ibm.test;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.HashMap;
import java.util.Properties;
import java.util.concurrent.TimeUnit;

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.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;

import com.ibm.pages.AdminPage;
import com.ibm.utilities.PropertiesFileHandler;

public class Login extends AdminPage{

	@FindBy(name="email")
	WebElement emailEle;

	@FindBy(name="pword")
	WebElement passEle;

	@FindBy(xpath="/html/body/div/div/div/div[2]/form/button")
	WebElement loginEle;
	WebDriverWait wait;
	WebDriver driver;

	public Login(WebDriver driver,WebDriverWait wait) {
		PageFactory.initElements(driver, this);
		this.driver=driver;
```

```java
            this.wait=wait;
        }

        public void enterEmailAddress(String user)
        {
            emailEle.sendKeys(user);
        }
        public void enterPassword(String password)
        {
            passEle.sendKeys(password);
        }
        public void clickOnLogin()
        {
            loginEle.click();
        }

}
```

Admin Page Program:

package com.ibm.pages;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.IOException;

import java.util.HashMap;

import java.util.Properties;

import java.util.concurrent.TimeUnit;

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.support.PageFactory;

import org.openqa.selenium.support.ui.WebDriverWait;

import org.testng.Assert;

import org.testng.annotations.Test;

```java
import com.ibm.test.Login;

import com.ibm.utilities.PropertiesFileHandler;


public class AdminPage{


        WebDriverWait wait;

        WebDriver driver;

        //PropertiesFileHandler propFileHandler;

        //HashMap<String, String> data;


                @Test
                public void testCase5() throws IOException, InterruptedException {

                        FileInputStream file = new FileInputStream("./TestData/data.properties");

                        Properties prop = new Properties();

                        prop.load(file);

                        String url = prop.getProperty("url");

                        String username = prop.getProperty("user");

                        String password = prop.getProperty("password");

                        System.setProperty("webdriver.chrome.driver", "./drivers/chromedriver.exe");

                        driver = new ChromeDriver();

                        wait = new WebDriverWait(driver, 60);

                        driver.get(url);

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

                        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

                        Login login = new Login(driver, wait);


                        login.enterEmailAddress(username);

                        login.enterPassword(password);

                        login.clickOnLogin();
```

```java
                    WebElement systemEle=driver.findElement(By.linkText("System"));

                    systemEle.click();


                    WebElement usersEle=driver.findElement(By.linkText("Users"));

                    usersEle.click();


                    Thread.sleep(3000);

                    WebElement newUserEle=driver.findElement(By.cssSelector("a.btn.btn-
primary"));

                    newUserEle.click();


                    WebElement saveEle=driver.findElement(By.cssSelector("i.fa.fa-save"));

                    saveEle.click();


                    Assert.assertTrue(driver.findElement(By.linkText("Please fill out this
field.")).isDisplayed());


            }

        //wait.until(ExpectedConditions.presenceOfElementLocated(By.partialLinkText("valid")));

        }
```

Data.properties file:

```
url=https://atozgroceries.com/admin
user=demo@atozgroceries.com
password=456789
```

3. Explanation of the code:

I have created Login.java program with the Login details of the atozgroceries admin page which can be used in our Admin Page test cases. AdminPage.java is where I have used @Test and used TestNG to execute the program

4. Result flow in detail:

I have created Login.java program with the Login details of the atozgroceries admin page which can be used in our Admin Page test cases. AdminPage.java is where I have used @Test and used TestNG to execute the program

5. Output screenshot: