Day 4 – Amazon Test Case Assignment

Best Sellers Page Tests

This tests validates various functionalities of the **Amazon Best Sellers** page using Playwright and a bestSellersPage page object with the help of fixtures. The tests are configured to run **in parallel** for efficiency.

```
test.describe.configure({ mode: 'parallel' });
```

Test Coverage Overview:

1. **Navigation:**
   - Open the Best Sellers page before each test.

```
test.describe('Best Sellers Page Tests', () => {
  test.beforeEach(async ({ bestSellersPage }) => {
    await bestSellersPage.navigate();
  });
```

2. **Search Functionality:**
   - Search for products like **Laptop**, **Mobile**, and **Camera**.
   - Verify search results are displayed.

```
[
    { searchKeyword: 'Laptop' },
    { searchKeyword: 'Mobile' },
    { searchKeyword: 'Camera' },
  ].forEach(({ searchKeyword }) => {
    test(`verify and search results for "${searchKeyword}"`, async ({
bestSellersPage }) => {
      await bestSellersPage.searchProduct(searchKeyword);
      await expect(bestSellersPage.products.first()).toBeVisible();
    });
  });
```

3. **Page Title Validation:**
   - Ensure the page title matches:
     "Amazon.in Bestsellers: The most popular items on Amazon"

```
test('Verify Page Title', async ({ bestSellersPage }) => {
    await bestSellersPage.verifyPageTitleHasTitle("Amazon.in Bestsellers: The most popular items on Amazon");
  });
```

4. **Category Display:**
    - ○ Check that categories are visible.
    - ○ Specifically verify presence of **Electronics** and **Books** categories.

```
test('Verify Categories Are Displayed', async ({ bestSellersPage }) => {
    await bestSellersPage.verifyCategoriesDisplayed();
  });
```

5. **Header Check:**
    - ○ Confirm the presence of the **"Bestsellers"** header.

```
async verifyHasHeader(headervalue: string) {
    await expect(this.header.first()).toBeVisible();
    const headerText = await this.header.first().textContent();
    expect(headerText).toContain(headervalue);
  }
```

6. **Product Listings:**
    - ○ Verify that products are listed on the page.

```
async verifyProductsDisplayed() {
    await expect(this.bestproducts.first()).toBeVisible();
  }
```

7. **Product Navigation:**
    - ○ Simulate clicking on a product.
    - ○ Confirm that product details (like an "Add to Cart" button) are displayed.

```
test('Verify Clicking a Product Opens Product Page', async ({ bestSellersPage }) => {
    await bestSellersPage.userClicksAProduct();
    await expect(bestSellersPage.addToCartButton.first()).toBeVisible();
  });
```

8. **Category Navigation:**

   - Navigate to a different category (e.g., **Books**) and verify the header updates appropriately.

```
test('Verify Navigation to a Different Category', async ({ bestSellersPage
}) => {
    await bestSellersPage.verifyCategoriesDisplayed();
    await bestSellersPage.clickCategory('Books');
    await expect(bestSellersPage.verifyCategoriesDisplayed).toBeTruthy();
    await bestSellersPage.verifyHasBooksHeader('Bestsellers in Books');
  });
```

9. **Sorting/Filtering Options:**

   - Search for "camera" and apply a sorting filter (e.g., **Price: Low to High**).

```
async applySortOption(optionValue: string) {
    console.log(this.sortDropdown);
    if (await this.sortDropdown.isVisible()) {
      await this.sortDropdown.selectOption(optionValue);
      const priceValue1 = await this.price.first().textContent();
      const price1 = parseFloat(priceValue1 ?? "0");
      const priceValue2 = await this.price.nth(1).textContent();
      const price2 = parseFloat(priceValue2 ?? "0");
      console.log(`Price of first product: ${price1}`);
      if (price1 < price2) {
        console.log("Products sorted successfully in ascending order.");
      }
    }
  }
```

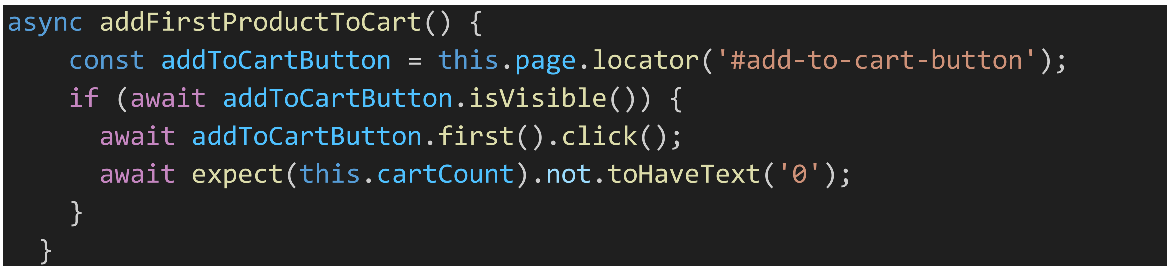
10. **Pagination:**

   - Navigate to the next page within a category.

```
async goToNextPage() {
    if (await this.paginationNext.isVisible()) {
      await this.paginationNext.click();
      await expect(this.page).toHaveURL(  /pg=2/);
    }
  }
```

11. Add to Cart Flow:

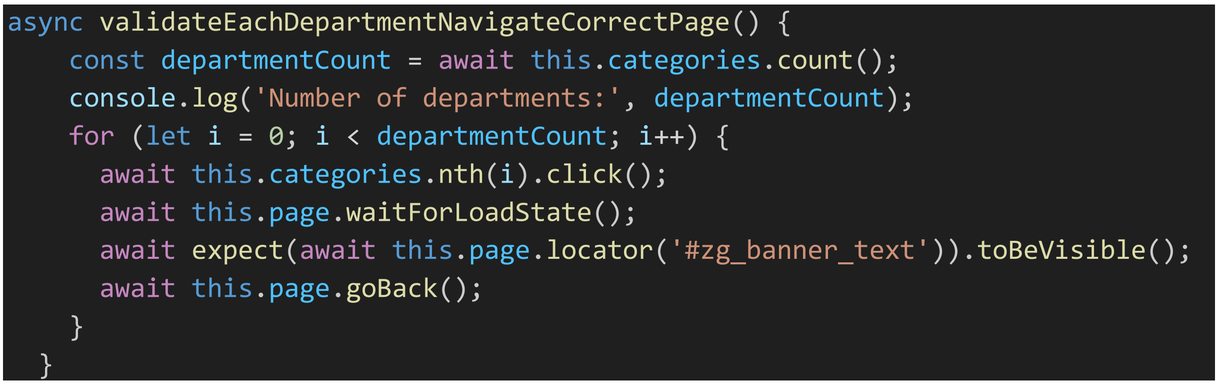
- Add a product to the cart directly from the Best Sellers page after navigating to the product details page.



```
async addFirstProductToCart() {
    const addToCartButton = this.page.locator('#add-to-cart-button');
    if (await addToCartButton.isVisible()) {
      await addToCartButton.first().click();
      await expect(this.cartCount).not.toHaveText('0');
    }
  }
```

12. Verify user can navigate each department

- To ensure the user can navigate through every department listed on the Best Sellers page.
- After navigation, verify that each click leads to the correct page.



```
async validateEachDepartmentNavigateCorrectPage() {
    const departmentCount = await this.categories.count();
    console.log('Number of departments:', departmentCount);
    for (let i = 0; i < departmentCount; i++) {
      await this.categories.nth(i).click();
      await this.page.waitForLoadState();
      await expect(await this.page.locator('#zg_banner_text')).toBeVisible();
      await this.page.goBack();
    }
  }
```