

# PolicyBazaar Home Page Locator Design & Testing

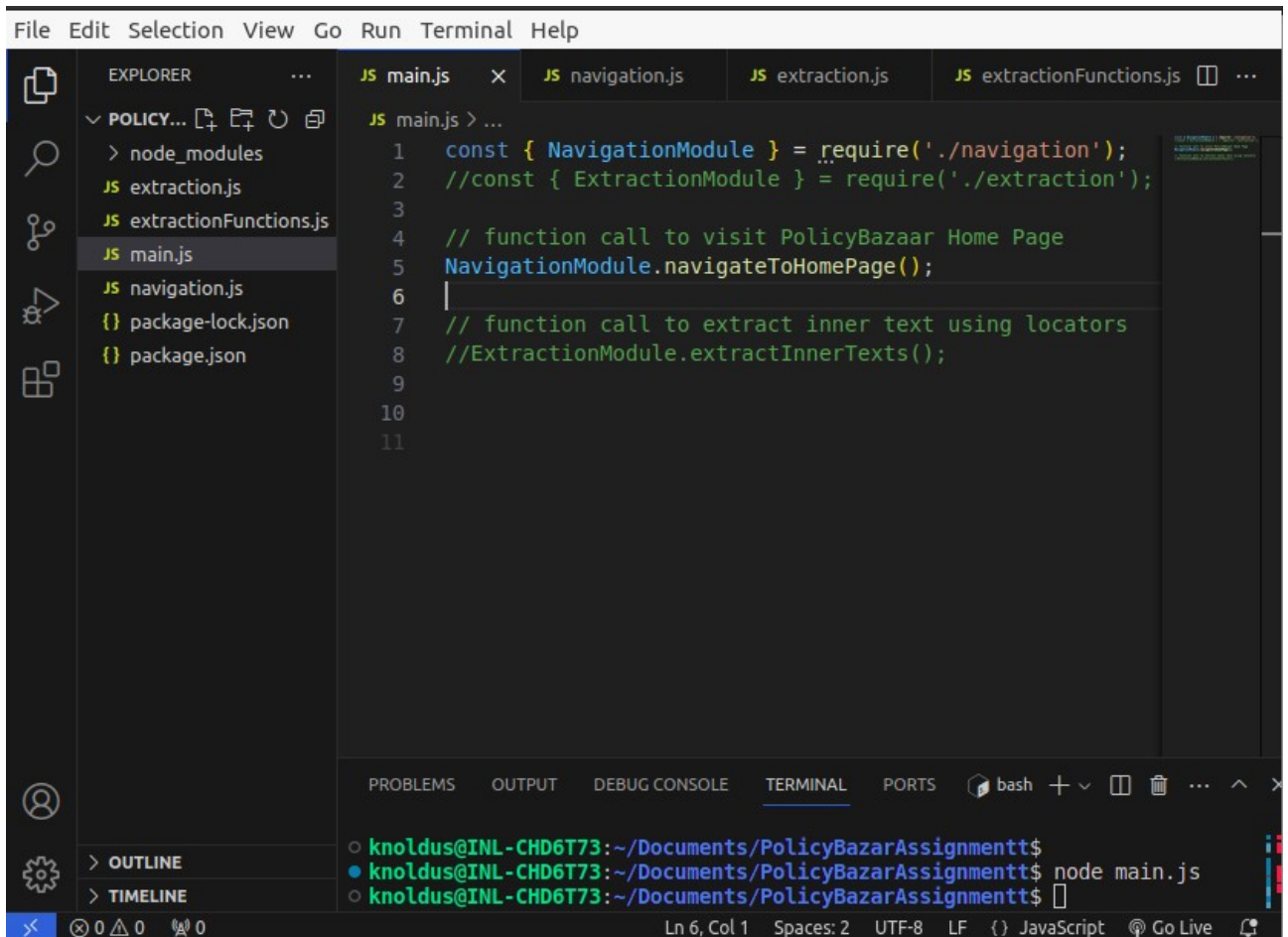
## Task 1:

- **Visit PolicyBazaar Home Page:**
- **Write a script to navigate to the PolicyBazaar home page**  
(<https://www.policybazaar.com/>).

## Solution:

This task can be performed in many ways I have tried three of them, which are-

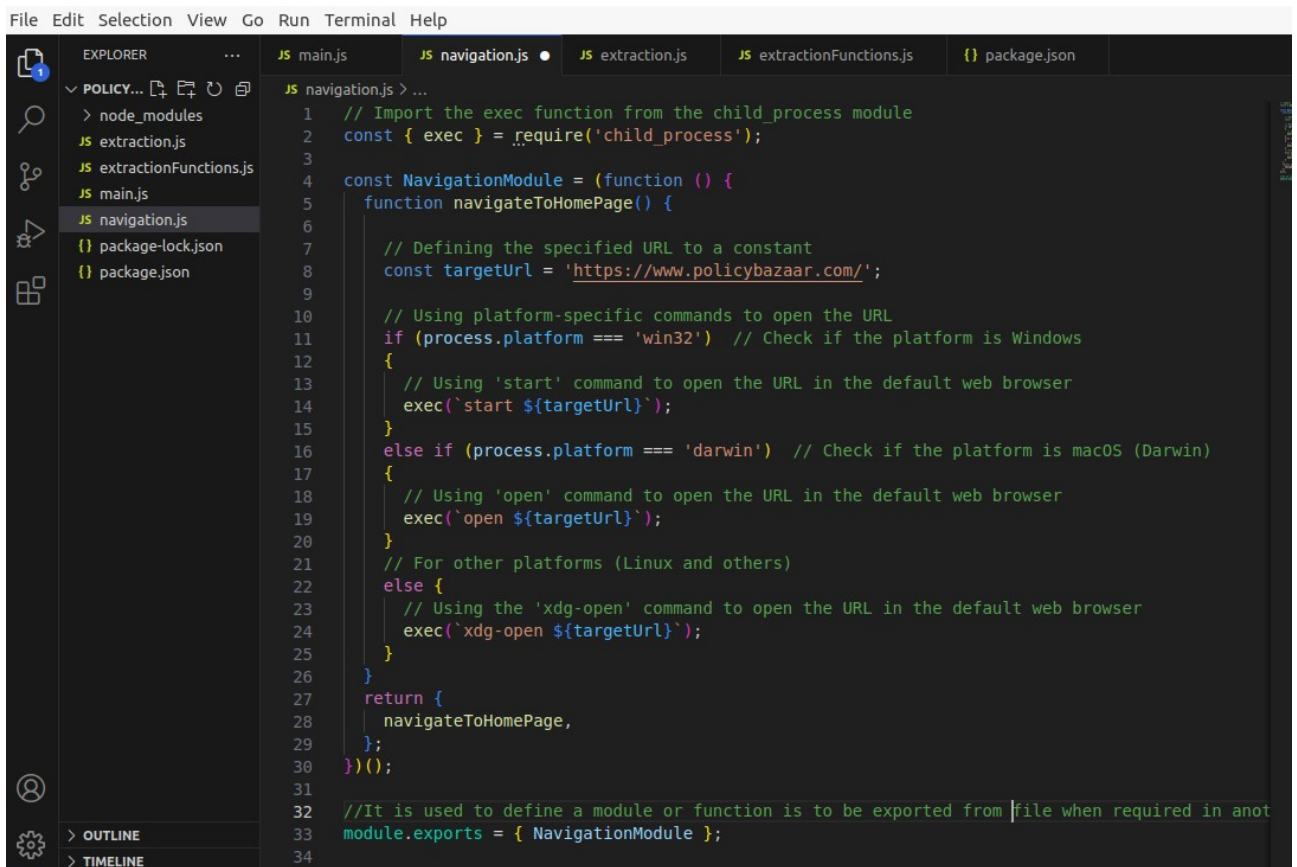
1. By 'windows.open()' method that opens the provided link in new tab  
**window.open('https://www.policybazaar.com/');**
  - ➔ the window object represents the browser window or tab that contains the document
  - ➔ open() is a method of the window object. It is used to open a new browser window or tab.
  - ➔ The argument passed to open() is the URL of the page that you want to open in the new window or tab.
2. By using windows properties to navigate to the desired link on the current (same) tab  
**window.location.href = 'https://www.policybazaar.com/';**
  - ➔ window is a global object in the browser's JavaScript environment. It represents the window or tab containing the webpage.
  - ➔ location is a property of the window object. It provides information about the current URL of the browser window.
  - ➔ href is a property of the location object. It contains the complete URL of the current webpage, including the protocol (http/https), domain, path, etc.
  - ➔ When we set a new value to location.href, we are telling the browser to change the current URL to 'specified url' and load that webpage.
3. By using IDE (VS Code) and execute script through node



The screenshot shows the VS Code editor interface. The Explorer sidebar on the left displays a project structure with folders 'POLICY...' and 'node\_modules', and files 'extraction.js', 'extractionFunctions.js', 'main.js', 'navigation.js', 'package-lock.json', and 'package.json'. The main editor area has four tabs: 'main.js', 'navigation.js', 'extraction.js', and 'extractionFunctions.js'. The 'main.js' tab is active, showing a JavaScript file with the following content:

```
JS main.js > ...
1  const { NavigationModule } = require('./navigation');
2  //const { ExtractionModule } = require('./extraction');
3
4  // function call to visit PolicyBazaar Home Page
5  NavigationModule.navigateToHomePage();
6
7  // function call to extract inner text using locators
8  //ExtractionModule.extractInnerTexts();
9
10
11
```

At the bottom, the Terminal panel is open, showing a bash shell prompt and the command 'node main.js' being executed. The output shows the command running successfully in the terminal.



The screenshot shows the VS Code editor interface. The Explorer sidebar on the left displays a project structure with folders 'POLICY...' and 'node\_modules', and files 'extraction.js', 'extractionFunctions.js', 'main.js', 'navigation.js', 'package-lock.json', and 'package.json'. The main editor area has five tabs: 'main.js', 'navigation.js', 'extraction.js', 'extractionFunctions.js', and 'package.json'. The 'navigation.js' tab is active, showing a JavaScript file with the following content:

```
JS navigation.js > ...
1  // Import the exec function from the child_process module
2  const { exec } = require('child_process');
3
4  const NavigationModule = (function () {
5    function navigateToHomePage() {
6
7      // Defining the specified URL to a constant
8      const targetUrl = 'https://www.policybazaar.com/';
9
10     // Using platform-specific commands to open the URL
11     if (process.platform === 'win32') // Check if the platform is Windows
12     {
13       // Using 'start' command to open the URL in the default web browser
14       exec('start ${targetUrl}');
15     }
16     else if (process.platform === 'darwin') // Check if the platform is macOS (Darwin)
17     {
18       // Using 'open' command to open the URL in the default web browser
19       exec('open ${targetUrl}');
20     }
21     // For other platforms (Linux and others)
22     else {
23       // Using the 'xdg-open' command to open the URL in the default web browser
24       exec('xdg-open ${targetUrl}');
25     }
26   }
27   return {
28     navigateToHomePage,
29   };
30 })();
31
32 //It is used to define a module or function is to be exported from file when required in anot
33 module.exports = { NavigationModule };
34
```

At the bottom, the Terminal panel is open, showing a bash shell prompt and the command 'node main.js' being executed. The output shows the command running successfully in the terminal.

## Task 2:

- **Design locators to extract the inner text of each insurance product listed on the home page.**

### Solution:

#### APPROACH 1: Fetching each product one by one

```
// Function to find the parent div based on the unique class of the i element
function findParentDivByIconClass(iconClass) {
    // Select all elements with the specified class (outer div's class)
    var divElements = document.querySelectorAll('.prd-icon.add.shadowHandler.short');

    for (var i = 0; i < divElements.length; i++) {
        // Finding the child i element within the current div element
        var iconElement = divElements[i].querySelector('.shadowHandlerBox i');

        // Checking if the i element has the specified icon class
        if (iconElement && iconElement.classList.contains(iconClass)) {
            // Returning the parent div if the icon class is found
            return divElements[i];
        }
    }

    // Returning null if no matching element is found
    return null;
}

//For Term Life Insurance
// Finding the parent div for 'term-life' icon class
var termLifeInsuranceLocator = findParentDivByIconClass('term-life');
// Extracting the inner text of the first 'p' element within the found div, or setting it to 'Element not found'
var termLifeInnerText = termLifeInsuranceLocator ?
termLifeInsuranceLocator.querySelector('p').innerText : 'Element not found';
// Printing the result to the console
console.log('Term Life Insurance Inner Text:', termLifeInnerText);

//For Health Insurance
var healthInsuranceLocator = findParentDivByIconClass('health-insurance');
var healthInsuranceInnerText = healthInsuranceLocator ?
healthInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('Health Insurance Inner Text:', healthInsuranceInnerText);

//For Investment Plans
var investmentPlansLocator = findParentDivByIconClass('investment');
var investmentInnerText = investmentPlansLocator ?
investmentPlansLocator.querySelector('p').innerText : 'Element not found';
console.log('Investment Plans Inner Text:', investmentInnerText);

//For Car Insurance
var carInsuranceLocator = findParentDivByIconClass('car-insurance');
var carInsuranceInnerText = carInsuranceLocator ?
carInsuranceLocator.querySelector('p').innerText : 'Element not found';
```

```

console.log('Car Insurance Inner Text:', carInsuranceInnerText);

//For 2 Wheeler Insurance
var twoWheelerInsuranceLocator = findParentDivByIconClass('two-wheeler-insurance');
var twoWheelerInsuranceInnerText = twoWheelerInsuranceLocator ?
twoWheelerInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('2 Wheeler Insurance Inner Text:', twoWheelerInsuranceInnerText);

//For Family Health Insurance
var familyHealthInsuranceLocator = findParentDivByIconClass('family-health-insurance');
var familyHealthInsuranceInnerText = familyHealthInsuranceLocator ?
familyHealthInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('Family Health Insurance Inner Text:', familyHealthInsuranceInnerText);

//For Travel Insurance
var travelInsuranceLocator = findParentDivByIconClass('ti');
var travelInsuranceInnerText = travelInsuranceLocator ?
travelInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('Travel Insurance Inner Text:', travelInsuranceInnerText);

//For Term Insurance (Women)
var termInsuranceWomenLocator = findParentDivByIconClass('women_term');
var termInsuranceWomenInnerText = termInsuranceWomenLocator ?
termInsuranceWomenLocator.querySelector('p').innerText : 'Element not found';
console.log('Term Insurance (Women) Inner Text:', termInsuranceWomenInnerText);

//For Free of Cost Term Plan
var freeOfCostTermPlanLocator = findParentDivByIconClass('none newterm_icon');
var freeOfCostTermPlanInnerText = freeOfCostTermPlanLocator ?
freeOfCostTermPlanLocator.querySelector('p').innerText : 'Element not found';
console.log('Free of Cost Term Plan Inner Text:', freeOfCostTermPlanInnerText);

//For Guaranteed Return Plan
var guaranteedReturnPlanLocator = findParentDivByIconClass('guaranteed-return-plan');
var guaranteedReturnPlanInnerText = guaranteedReturnPlanLocator ?
guaranteedReturnPlanLocator.querySelector('p').innerText : 'Element not found';
console.log('Guaranteed Return Plan Inner Text:', guaranteedReturnPlanInnerText);

//For Child Savings Plans
var childSavingsPlansLocator = findParentDivByIconClass('csip');
var childSavingsPlansInnerText = childSavingsPlansLocator ?
childSavingsPlansLocator.querySelector('p').innerText : 'Element not found';
console.log('Child Savings Plans Inner Text:', childSavingsPlansInnerText);

//For Retirement Plans
var retirementPlansLocator = findParentDivByIconClass('retirement-plan');
var retirementPlansInnerText = retirementPlansLocator ?
retirementPlansLocator.querySelector('p').innerText : 'Element not found';
console.log('Retirement Plans Inner Text:', retirementPlansInnerText);

//For Employee Group Health Insurance
var employeeGroupHealthInsuranceLocator = findParentDivByIconClass('ghi');

```

```

var employeeGroupHealthInsuranceInnerText = employeeGroupHealthInsuranceLocator ?
employeeGroupHealthInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('Employee Group Health Insurance Inner Text:',
employeeGroupHealthInsuranceInnerText);

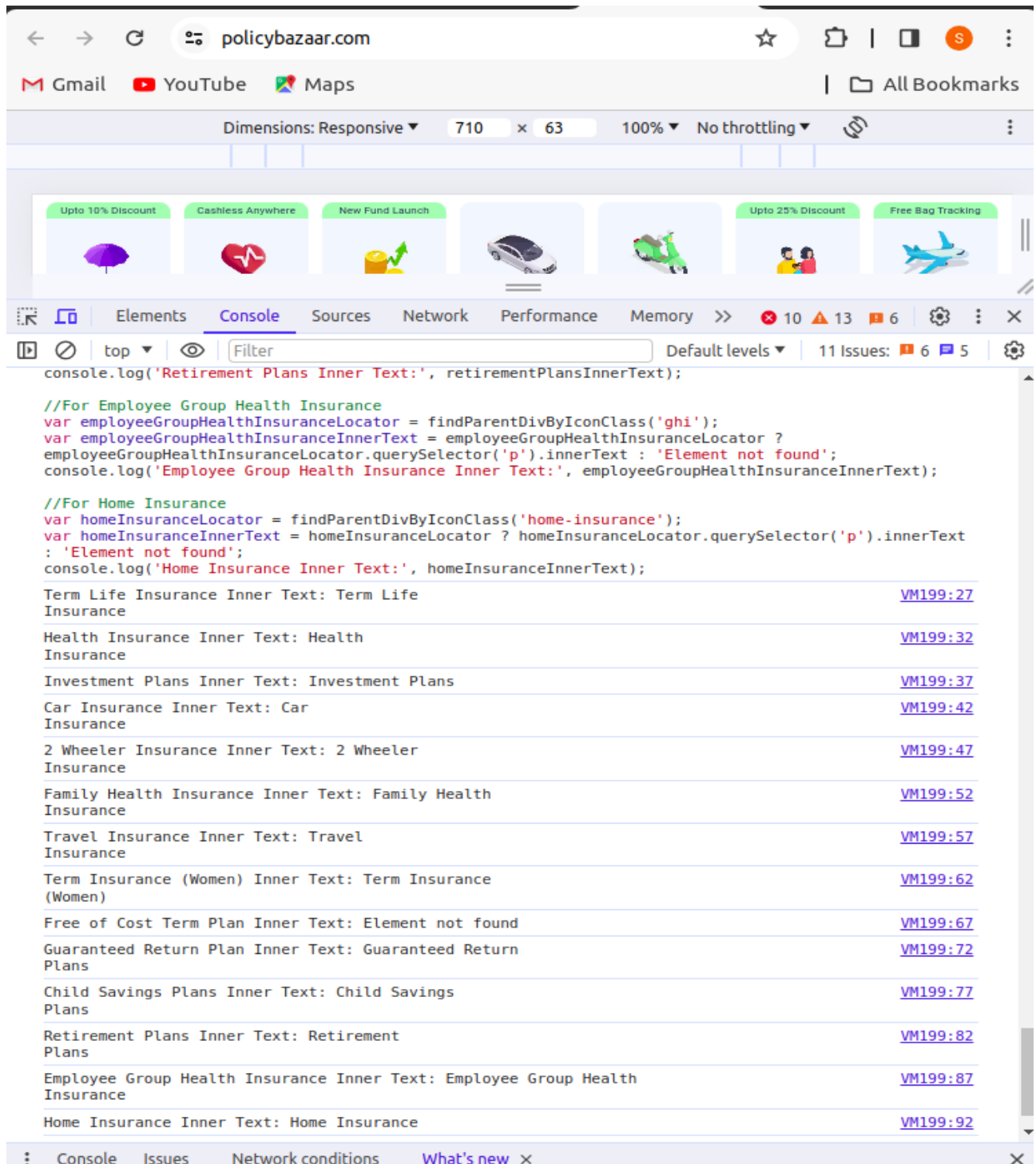
```

```
//For Home Insurance
```

```

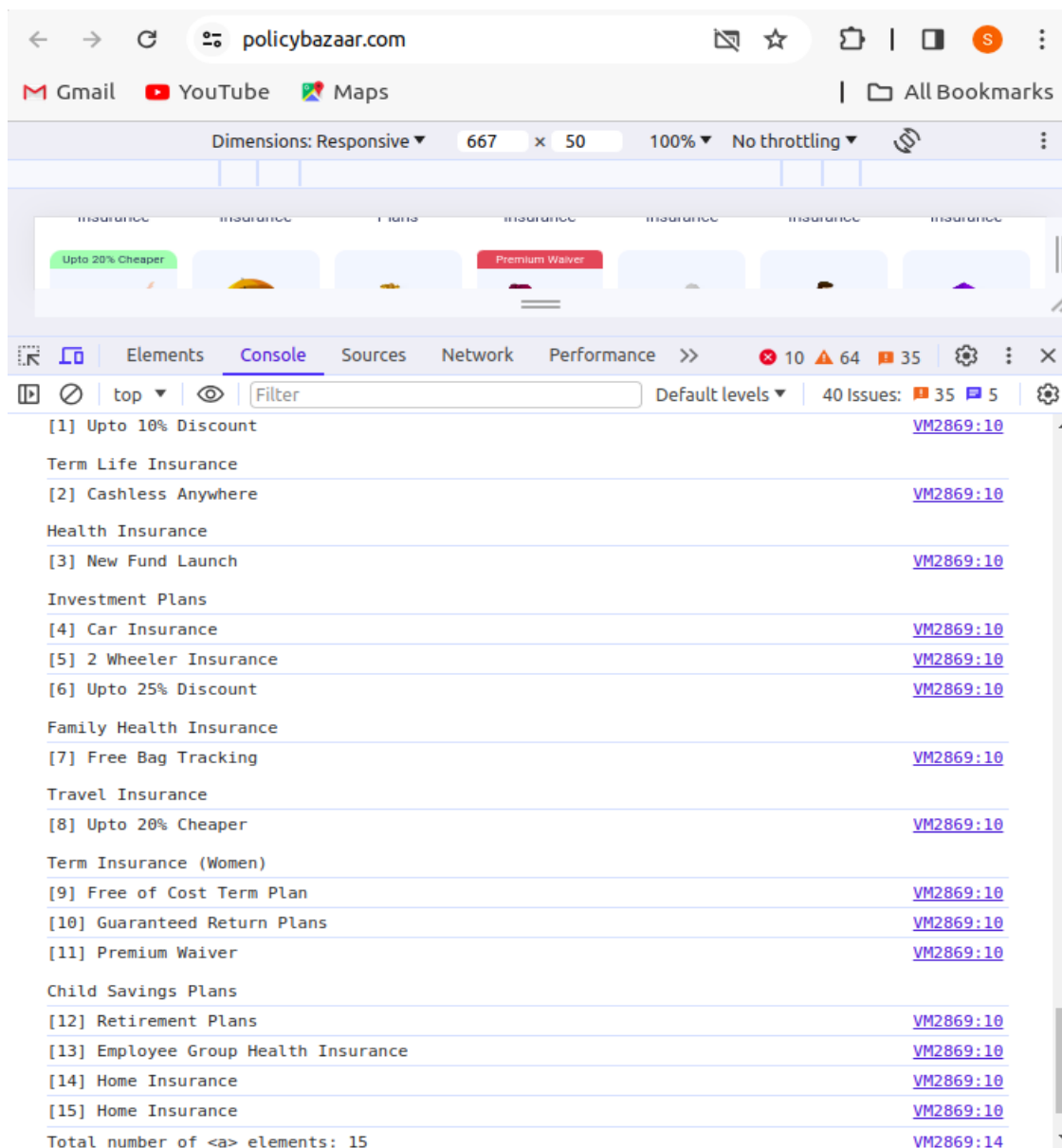
var homeInsuranceLocator = findParentDivByIconClass('home-insurance');
var homeInsuranceInnerText = homeInsuranceLocator ?
homeInsuranceLocator.querySelector('p').innerText : 'Element not found';
console.log('Home Insurance Inner Text:', homeInsuranceInnerText);

```



## APPROACH 2: Fetching all products all at once

```
function listLinksAndInnerText() {  
  // Using the correct CSS locator to select all products on Homepage  
  const links = document.querySelectorAll('.prd-row .prd-block a');  
  
  // Logging the information about each product  
  console.log("List of <a> elements and their inner text:");  
  links.forEach((link, index) => {  
    const innerText = link.innerText.trim();  
    console.log(`[${index + 1}] ${innerText}`);  
  });  
  
  // Logging the total number of products  
  console.log(`Total number of <a> elements: ${links.length}`);  
}  
  
// function call  
listLinksAndInnerText();
```



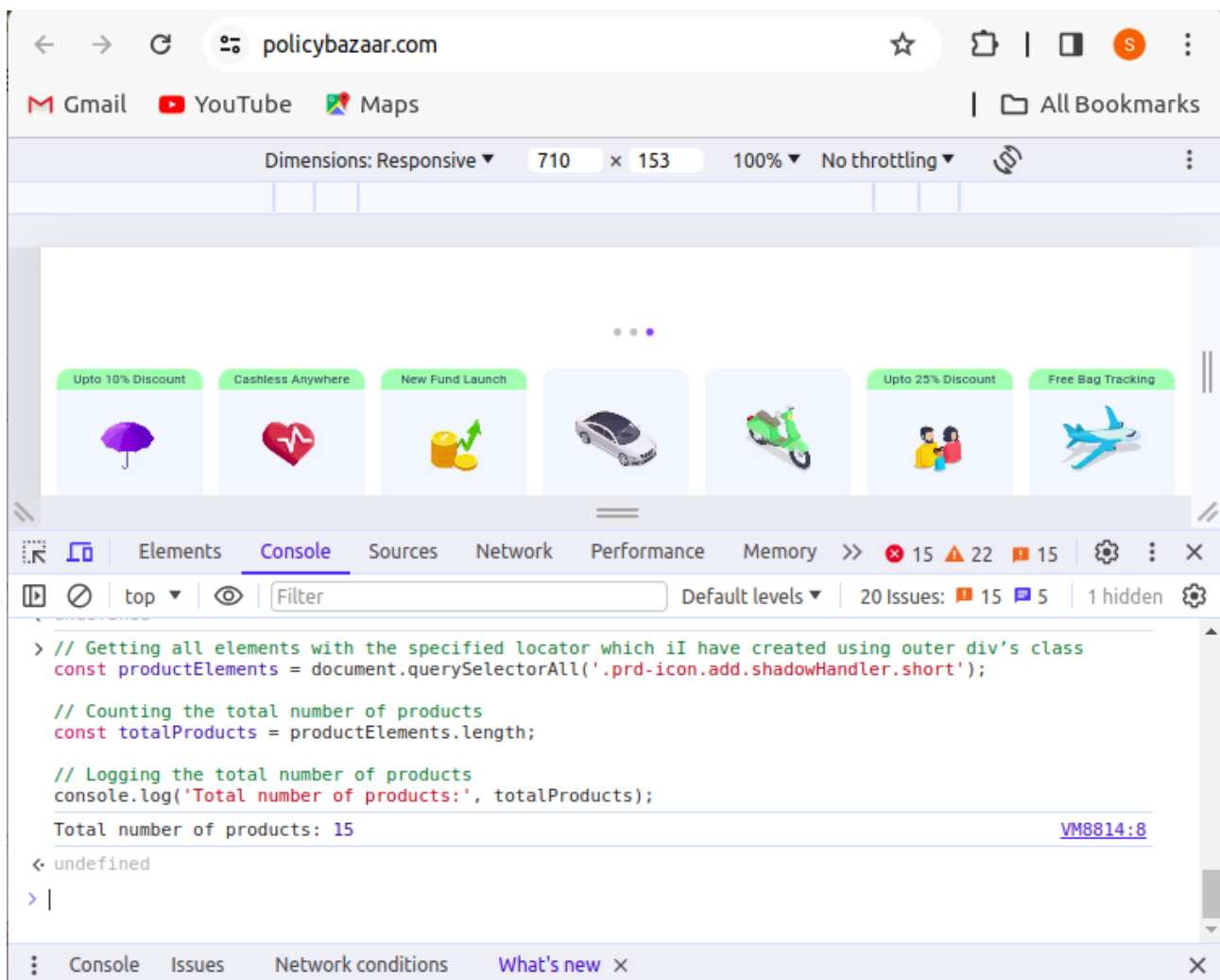
- **Count and log the total number of products displayed on the home page.**

**Solution:**

```
// Getting all elements with the specified locator which iI have created using outer div's class
const productElements = document.querySelectorAll('.prd-icon.add.shadowHandler.short');
```

```
// Counting the total number of products
const totalProducts = productElements.length;
```

```
// Logging the total number of products
console.log('Total number of products:', totalProducts);
```





### Task 3:

- Click on "View All Products"

### Solution:

// Finding the "View All Products" button by its class

```
var viewAllButton = document.querySelector('.view-all.view-all-prd');
```

// Checking if the button is found

```
if (viewAllButton) {
```

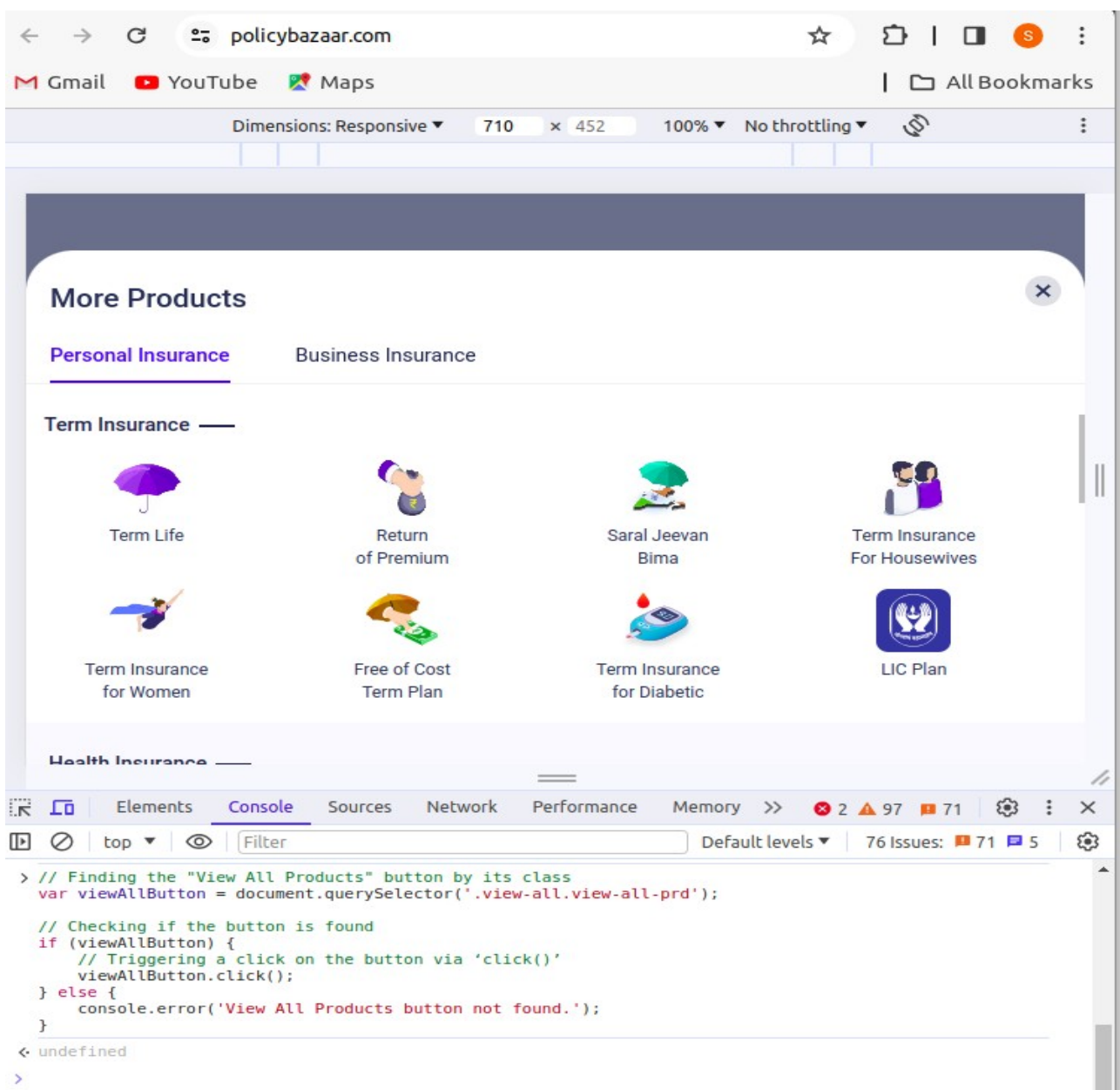
```
    // Triggering a click on the button via 'click()'
```

```
    viewAllButton.click();
```

```
} else {
```

```
    console.error('View All Products button not found.');
```

```
}
```





- **Verify there are two types of insurance products.**

**\*\* Personal Insurance**

**\*\* Business Insurance**

### Solution:

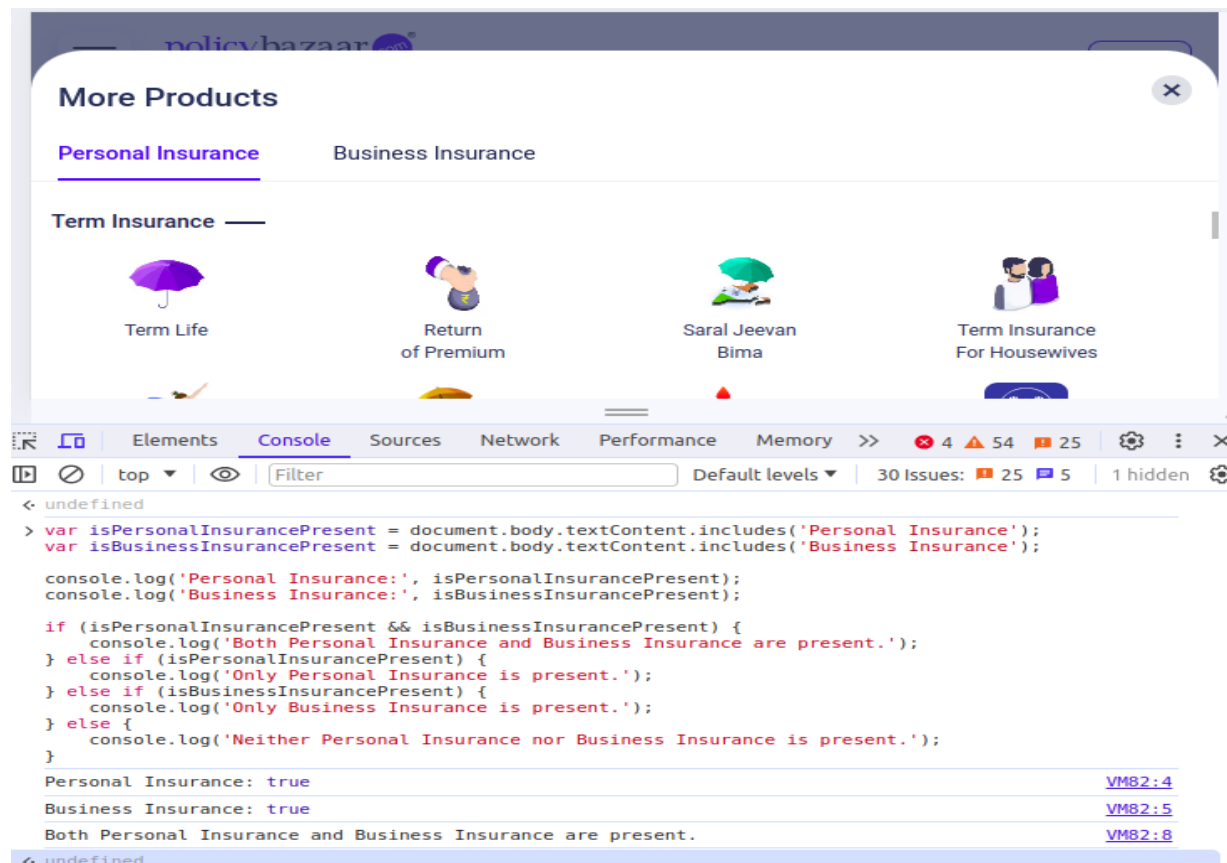
```
// Checking if "Personal Insurance" is present in the text content of the document body
var isPersonalInsurancePresent = document.body.textContent.includes('Personal Insurance');

// Checking if "Business Insurance" is present in the text content of the document body
var isBusinessInsurancePresent = document.body.textContent.includes('Business Insurance');

// Logging whether Personal Insurance is present
console.log('Personal Insurance:', isPersonalInsurancePresent);

// Logging whether Business Insurance is present
console.log('Business Insurance:', isBusinessInsurancePresent);

// Checking and logging the overall verification results
if (isPersonalInsurancePresent && isBusinessInsurancePresent) {
    console.log('Both Personal Insurance and Business Insurance are present.');
```



#### Task 4:

- **Design locators to extract inner text information for each personal insurance product.**

#### Solution:

// Defining a function to extract inner text for a given locator

```
function extractInnerText(locator) {  
  // Using document.querySelectorAll to find all elements matching the locator  
  const elements = document.querySelectorAll(locator);  
  // Converting the NodeList of elements to an array and trim the inner text of each element  
  return Array.from(elements, element => element.innerText.trim());  
}
```

```
const locators = [  
  // Locator for Term Life Insurance  
  "a[oncontextmenu*='Term_Click'][(href='https://termlife.policybazaar.com/prequoteLite?utm_content=home_v10')]",  
  // Locator for Return of Premium Insurance  
  "a:has(> i.icon-bg.homeIconsBg.return-of-premium)",  
  // Locator for Saral Jeevan Bima  
  "a[oncontextmenu*='saral-jeevan-bima_Click']",  
  // Locator for Non-Working Spouse Plan  
  "a[oncontextmenu*='non-working-spouse_Click']",  
  // Locator for Term Insurance for Women  
  "a[oncontextmenu*='term_insurance_women_Click']",  
  // Locator for Zero Cost Insurance  
  "a[oncontextmenu*='zerocost_Click']",  
  // Locator for Term Insurance for Diabetic  
  "a[oncontextmenu*='Term_Insurance_for_Diabetic_Click']",  
  // Locator for LIC Plans  
  "a[oncontextmenu*='Term LIC_Plan']",  
  // Locator for Health Insurance  
  "a:has(> i.icon-bg.homeIconsBg.health-insurance)",  
  // Locator for One Crore Health Cover  
  "a:has(> i.icon-bg.homeIconsBg.one-cr-health-Cover)",  
  // Locator for Arogya Sanjeevani Insurance  
  "a:has(> i.icon-bg.homeIconsBg.arogya-sanjeevani)",  
  // Locator for Family Health Insurance  
  "a:has(> i.icon-bg.homeIconsBg.icon-bg-new.family-health-insurance)",  
  // Locator for Cancer Insurance  
  "a:has(> i.icon-bg.homeIconsBg.cancer-insurance)",  
  // Locator for LIC Plans (Alternative)  
  "a[oncontextmenu*='LIC_Plan'][(onclick*='Home-0-Comm-LIC-Plans')]",  
  // Locator for Investment Plans  
  "a:has(> i.icon-bg.homeIconsBg.investment)",
```

```

// Locator for Child Saving Plans
"a:has(> i.icon-bg.homeIconsBg.child-saving-plan)",
// Locator for Guaranteed Return Plans
"a:has(> i.icon-bg.homeIconsBg.icon-bg-new.guaranteed-return-plan-plane)",
// Locator for Retirement Plans
"a:has(> i.icon-bg.homeIconsBg.retirement-plan)",
// Locator for Tax Saving Investment
"a:has(> i.icon-bg.icon-bg-new.homeIconsBg.tax-saving-investment)",
// Locator for Tax Saving Annuity
"a:has(> i.icon-bg.icon-bg-new.tax-saving-annuity)",
// Locator for Smart Deposit
"a[oncontextmenu*='SmartDeposit_Click']",
// Locator for ULIPs
"a:has(> i.icon-bg.homeIconsBg.icon-bg-new.ulips)",
// Locator for Car Insurance
"a:has(> i.icon-bg.homeIconsBg.car-insurance)",
// Locator for Two Wheeler Insurance
"a:has(> i.icon-bg.homeIconsBg.two-wheeler-insurance)",
// Locator for Travel Insurance
"a:has(> i.icon-bg.homeIconsBg.travel-insurance)",
// Locator for Pet Insurance
"a:has(> i.icon-bg.homeIconsBg.icon-bg-new.pet-insurance)",
// Locator for Home Insurance
"a:has(> i.icon-bg.homeIconsBg.home-insurance)",
// Locator for Taxi Insurance
"a[oncontextmenu*='TaxiInsurance_Click']",
// Locator for Group Insurance
"a:has(> i.icon-bg.homeIconsBg.icon-bg-new.group-insurance)",
// Locator for Corporate Insurance
"a[oncontextmenu*='CorporateInsurance_Click']"
];

```

```

// Creating an object to store inner texts for each product
const innerTexts = {};

```

```

// Extracting inner text for each product using loop
for (const locator of locators) {
    // Extracting product name from the locator
    const productName = locator.split(' ').pop();
    // Call the extractInnerText function to get inner text for the locator
    innerTexts[productName] = extractInnerText(locator);
}

```

```

// Log the inner texts for each product
console.log("Inner Texts of Elements Identified by Locators:", innerTexts);

```

policybazaar.com

Gmail YouTube Maps | All Bookmarks

Dimensions: Responsive 710 x 61 100% No throttling

to buy insurance? have bought their insurance on Policybazaar Compare easily & transparently available online

Elements Console Sources Network Performance Memory >> 3 57 31

top Filter Default levels 36 Issues: 31 5

Inner Texts of each Personal Insurance: [VM94:55](#)

```

{a[oncontextmenu*='Term_Click']:[href='https://termlife.policybazaar.com/prequoteLite?utm_content=home_vl0']: Array(0), i.icon-bg.homeIconsBg.return-of-premium): Array(1), a[oncontextmenu*='saral-jeevan-bima_Click']: Array(1), a[oncontextmenu*='non-working-spouse_Click']: Array(1), a[oncontextmenu*='term_insurance_women_Click']: Array(1), ...] i
  ▶ LIC_Plan': ['LIC Plan']
  ▶ a[oncontextmenu*='CorporateInsurance_Click']: ['Corporate insurance']
  ▶ a[oncontextmenu*='LIC_Plan'][onclick*='Home-0-Comm-LIC-Plans']: ['LIC Plans']
  ▶ a[oncontextmenu*='SmartDeposit_Click']: ['Smart Deposit']
  ▶ a[oncontextmenu*='TaxiInsurance_Click']: ['Taxi\nInsurance']
  ▶ a[oncontextmenu*='Term_Click']:[href='https://termlife.policybazaar.com/prequoteLite?utm_content=home_vl0']: Array(0), i.icon-bg.homeIconsBg.return-of-premium): Array(1), a[oncontextmenu*='saral-jeevan-bima_Click']: Array(1), a[oncontextmenu*='non-working-spouse_Click']: Array(1), a[oncontextmenu*='term_insurance_women_Click']: Array(1), ...] i
  ▶ a[oncontextmenu*='Term_Insurance_for_Diabetic_Click']: ['Term Insurance\nfor Diabetic']
  ▶ a[oncontextmenu*='non-working-spouse_Click']: ['Term Insurance\nFor Housewives']
  ▶ a[oncontextmenu*='saral-jeevan-bima_Click']: ['Saral Jeevan\nBima']
  ▶ a[oncontextmenu*='term_insurance_women_Click']: ['Term Insurance\nfor Women']
  ▶ a[oncontextmenu*='zerocost_Click']: ['Free of Cost\nTerm Plan']
  ▶ i.icon-bg.homeIconsBg.arogya-sanjeevani): ['Arogya\nSanjeevani']
  ▶ i.icon-bg.homeIconsBg.cancer-insurance): ['Cancer\nInsurance']
  ▶ i.icon-bg.homeIconsBg.car-insurance): ['Car\nInsurance']
  ▶ i.icon-bg.homeIconsBg.child-saving-plan): ['Child\nSavings P...']
  ▶ i.icon-bg.homeIconsBg.health-insurance): ['Health']
  ▶ i.icon-bg.homeIconsBg.home-insurance): ['Home\nInsurance']
  ▶ i.icon-bg.homeIconsBg.icon-bg-new.family-health-insurance): ['Family Health Insurance']
  ▶ i.icon-bg.homeIconsBg.icon-bg-new.group-insurance): ['Employee Group Health\nInsurance']
  ▶ i.icon-bg.homeIconsBg.icon-bg-new.guaranteed-return-plan-plane): ['Guaranteed\nReturn Pla...']
  ▶ i.icon-bg.homeIconsBg.icon-bg-new.pet-insurance): ['Pet\nInsurance']
  ▶ i.icon-bg.homeIconsBg.icon-bg-new.ulips): ['ULIPs']
  ▶ i.icon-bg.homeIconsBg.investment): ['Investment']
  ▶ i.icon-bg.homeIconsBg.one-cr-health-Cover): ['1 Cr health\nCover']
  ▶ i.icon-bg.homeIconsBg.retirement-plan): ['Retirement\nPlan']
  ▶ i.icon-bg.homeIconsBg.return-of-premium): ['Return\nof Premium']
  ▶ i.icon-bg.homeIconsBg.travel-insurance): ['Travel\nInsurance']
  ▶ i.icon-bg.homeIconsBg.two-wheeler-insurance): ['2 Wheeler\nInsurance']
  ▶ i.icon-bg.icon-bg-new.homeIconsBg.tax-saving-investment): ['Tax Saving\nInvestment']
  ▶ i.icon-bg.icon-bg-new.tax-saving-annuity): ['Pension For Life']
  ▶ [[Prototype]]: Object

```

- **Log the collection of personal insurance products along with their counts.**

#### **Solution:**

```
// Function to count and list links based on the provided XPath
function countAndListLinks(categoryHeading, xpath) {
  // Evaluate the XPath expression and get the result
  const xpathResult = document.evaluate(xpath, document, null,
    XPathResult.ORDERED_NODE_SNAPSHOT_TYPE, null);

  // Logging a message indicating the category of products found
  console.log(`Personal Insurance Products found are:`);

  // Loop through each result item in the XPath result
  for (let i = 0; i < xpathResult.snapshotLength; i++) {
    const link = xpathResult.snapshotItem(i);

    // Logging the index, trimmed text content of the link
    console.log(`${i + 1}. ${link.innerText.trim()}`);
  }
}

// Count and list Personal Insurance Products links using the XPath
countAndListLinks("Personal Insurance Products", "///div[@id='tab-content1']/div[@class='icon-block-row' and ./p[@class='heading' and text()='Term Insurance']]//ul/li/a | //div[@id='tab-content1']/div[@class='icon-block-row bg-blue' and ./p[@class='heading' and text()='Investment Plans']]//ul/li/a");

// Calculate the total count of all product links
const xpathTotalCount = document.evaluate("///div[@id='tab-content1']/div[@class='icon-block-row' and ./p[@class='heading' and text()='Term Insurance']]//ul/li/a | //div[@id='tab-content1']/div[@class='icon-block-row bg-blue' and ./p[@class='heading' and text()='Investment Plans']]//ul/li/a", document, null,
  XPathResult.ORDERED_NODE_SNAPSHOT_TYPE, null).snapshotLength;

// Log the total count of all product links
console.log(`Total count of all products are : ${xpathTotalCount}`);
```

#### **Explanation:**

A static collection of nodes in the DOM that match the given XPath expression at the moment of the evaluation is referred to as a "**snapshot**" because it takes a picture of the nodes that satisfies the requirements at the time the XPath expression was run.

- **XPathResult.ORDERED\_NODE\_SNAPSHOT\_TYPE:** This is a constant indicating that the XPath expression should return a snapshot of nodes in the order in which they appear in the document.
- **snapshotLength:** After the XPath expression is evaluated, snapshotLength is used to determine how many nodes (elements) were found that match the specified criteria.

- **snapshotItem(i):** This method is used in a loop to access individual nodes within the snapshot. It retrieves the node at the specified index (i) in the ordered snapshot.

policybazaar.com

Investment Plans  
Invest ₹10K and Get

Health Insurance  
1 Crore

Elements Console Sources Network Performance Memory >> 30 54 31 36 Issues: 31 5

```
const xpathTotalCount = document.evaluate("//div[@id='tab-content1']//div[@class='icon-block-row' and
../p[@class='heading' and text()='Term Insurance']]//ul/li/a | //div[@id='tab-
content1']//div[@class='icon-block-row bg-blue' and ../p[@class='heading' and text()='Investment
Plans']]//ul/li/a", document, null, XPathResult.ORDERED_NODE_SNAPSHOT_TYPE, null).snapshotLength;
console.log('Total count of all products are : ${xpathTotalCount}');
```

Personal Insurance Products found are:

1. Term Life	VM7093:3
2. Return of Premium	VM7093:7
3. Saral Jeevan Bima	VM7093:7
4. Term Insurance For Housewives	VM7093:7
5. Term Insurance for Women	VM7093:7
6. Free of Cost Term Plan	VM7093:7
7. Term Insurance for Diabetic	VM7093:7
8. LIC Plan	VM7093:7
9. Health	VM7093:7
10. 1 Cr health Cover	VM7093:7
11. Arogya Sanjeeva...	VM7093:7
12. Family Health Insurance	VM7093:7
13. Cancer Insurance	VM7093:7
14. LIC Plans	VM7093:7
15. Investment	VM7093:7
16. Child Savings P...	VM7093:7
17. Guaranteed Return Pla	VM7093:7
18. Retirement Plan	VM7093:7
19. Tax Saving Investment	VM7093:7
20. Pension For Life	VM7093:7
21. Smart Deposit	VM7093:7
22. ULIPs	VM7093:7
23. Car Insurance	VM7093:7
24. 2 Wheeler Insurance	VM7093:7
25. Travel Insurance	VM7093:7
26. Pet Insurance	VM7093:7
27. Home Insurance	VM7093:7
28. Taxi Insurance	VM7093:7
29. Employee Group Health Insurance	VM7093:7
30. Corporate insurance	VM7093:7
Total count of all products are : 30	VM7093:16

undefined

### Task 5:

- **Design locators to extract inner text information for each business insurance product.**

### Solution:

We can implement this by two approaches i.e designing locators for each product as well as getting all products at once

### APPROACH 1: Getting all products at once

```
// Function to list links under their heading
function listLinksAndInnerText(categoryHeading, xpath) {
    // Using XPath to get a snapshot of elements matching the given XPath expression
    const xpathResult = document.evaluate(xpath, document, null,
    XPathResult.ORDERED_NODE_SNAPSHOT_TYPE, null);
    // Printing a message indicating the products under the specified category are found
    console.log(`Products under ${categoryHeading} found are:`);

    // Loop through each element in the XPath snapshot
    for (let i = 0; i < xpathResult.snapshotLength; i++) {
        const link = xpathResult.snapshotItem(i);
        const innerText = link.querySelector('span.link').innerText.trim();
        // Printing the information about the current product, including its index and inner text
        console.log(`Product ${i + 1} Inner Text is: ${innerText}`);
    }
    // Printing a newline for better readability
    console.log('\n');
}

// Calling the function to list links
listLinksAndInnerText("Business Insurance", "//li[@class='tab']/div[@id='tab-content2']/a");
```



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```
// Calling the function to list links
listLinksAndInnerText("Business Insurance", "///li[@class='tab']/div[@id='tab-content2']/a");
```

Products under Business Insurance found are:	<a href="#">VM29383:6</a>
Product 1 Inner Text is: Marine Insurance	<a href="#">VM29383:13</a>
Product 2 Inner Text is: Fire & Burglary	<a href="#">VM29383:13</a>
Product 3 Inner Text is: Shop Owner Insurance	<a href="#">VM29383:13</a>
Product 4 Inner Text is: Office Package Policy	<a href="#">VM29383:13</a>
Product 5 Inner Text is: Employee Group Health Insurance	<a href="#">VM29383:13</a>
Product 6 Inner Text is: Group Personal Accident	<a href="#">VM29383:13</a>
Product 7 Inner Text is: Group Term Life	<a href="#">VM29383:13</a>
Product 8 Inner Text is: COVID-19 Group Health Plan	<a href="#">VM29383:13</a>
Product 9 Inner Text is: Professional Indemnity for Doctors	<a href="#">VM29383:13</a>
Product 10 Inner Text is: Professional Indemnity for Companies	<a href="#">VM29383:13</a>
Product 11 Inner Text is: Workmen Compensation	<a href="#">VM29383:13</a>
Product 12 Inner Text is: General Liability	<a href="#">VM29383:13</a>
Product 13 Inner Text is: Cyber Insurance	<a href="#">VM29383:13</a>
Product 14 Inner Text is: Directors & Officers Liability	<a href="#">VM29383:13</a>
Product 15 Inner Text is: Contractor's All Risk	<a href="#">VM29383:13</a>
Product 16 Inner Text is: Erection All Risk	<a href="#">VM29383:13</a>
Product 17 Inner Text is: Contractor's Plant & Machinery	<a href="#">VM29383:13</a>

## APPROACH 2: Designing locators for each product

// Function to find list for each business insurance product with their inner text

```
function listBusinessInsuranceProducts() {
  const productLocators = [
    "a[onclick*='MarineInsurance']",
    "a[onclick*='FireandBurglary']",
    "a[onclick*='Shop Owner Insurance']",
    "a[onclick*='Office Package Policy']",
    "a:has(> i.icon-bg.professional-indemnity)",
    "a[onclick*='Professional Indemnity for Companies']",
    "a:has(> i.icon-bg.workmen-compensation)",
    "a:has(> i.icon-bg.general-liability)",
    "a[onclick*='Cyber Insurance']",
    "a:has(> i.icon-bg.directors-officers-liability)",
    "a:has(> i.icon-bg.group-health-insurance)",
    "a[onclick*='Group Personal Accident']",
    "a[onclick*='Group Term Life']",
    "a[onclick*='Group Health Plan']",
    "a:has(> i.icon-bg.construction-all-risk)",
    "a[onclick*='Erection All Risk']",
    "a[onclick*='Contractors Plant & Machinery']"
  ];

  // array to store inner text information
  const results = [];

  // Iterate through each product locator
  productLocators.forEach((locator, index) => {
    const element = document.querySelector(locator);
    if (element) {
      // Extracting inner text information
      const innerText = element.innerText.trim();
      results.push(`Product ${index + 1} Inner Text is: ${innerText}`);
    }
  });

  // Printing the results
  console.log("Business Insurance's Products listed are:");
  results.forEach(result => console.log(result));
}

// Calling the function
listBusinessInsuranceProducts();
```

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```
console.log("Business Insurance's Products listed are:");
results.forEach(result => console.log(result));
}
```

```
// Calling the function
listBusinessInsuranceProducts();
```

Business Insurance's Products listed are:	<a href="#">VM29387:37</a>
Product 1 Inner Text is: Marine Insurance	<a href="#">VM29387:38</a>
Product 2 Inner Text is: Fire & Burglary	<a href="#">VM29387:38</a>
Product 3 Inner Text is: Shop Owner Insurance	<a href="#">VM29387:38</a>
Product 4 Inner Text is: Office Package Policy	<a href="#">VM29387:38</a>
Product 5 Inner Text is: Professional Indemnity for Doctors	<a href="#">VM29387:38</a>
Product 6 Inner Text is: Professional Indemnity for Companies	<a href="#">VM29387:38</a>
Product 7 Inner Text is: Workmen Compensation	<a href="#">VM29387:38</a>
Product 8 Inner Text is: General Liability	<a href="#">VM29387:38</a>
Product 9 Inner Text is: Cyber Insurance	<a href="#">VM29387:38</a>
Product 10 Inner Text is: Directors & Officers Liability	<a href="#">VM29387:38</a>
Product 11 Inner Text is: Employee Group Health Insurance	<a href="#">VM29387:38</a>
Product 12 Inner Text is: Group Personal Accident	<a href="#">VM29387:38</a>
Product 13 Inner Text is: Group Term Life	<a href="#">VM29387:38</a>
Product 14 Inner Text is: COVID-19 Group Health Plan	<a href="#">VM29387:38</a>
Product 15 Inner Text is: Contractor's All Risk	<a href="#">VM29387:38</a>
Product 16 Inner Text is: Erection All Risk	<a href="#">VM29387:38</a>

- **Log the collection of business insurance products along with their counts.**

**Solution:**

```
function logBusinessInsuranceProducts(xpath) {  
    // Using XPath to get a snapshot of elements matching the given XPath expression  
    const xpathResult = document.evaluate(xpath, document, null,  
XPathResult.ORDERED_NODE_SNAPSHOT_TYPE, null);  
    // Results array to store information about business insurance products  
    const results = [];  
  
    // Loop through each element in the XPath snapshot  
    for (let i = 0; i < xpathResult.snapshotLength; i++) {  
        const link = xpathResult.snapshotItem(i);  
        const innerText = link.querySelector('span.link').innerText.trim();  
        // Adding information about the current product to the results array  
        results.push(`Product ${i + 1} : ${innerText}`);  
    }  
  
    // Logging the collection of business insurance products  
    console.log("Collection of Business Insurance Products are:");  
    results.forEach(result => console.log(result));  
    // Logging the total count of business insurance products  
    console.log(`Total Count: ${results.length}\n`);  
}  
  
// Calling the function to log business insurance products  
logBusinessInsuranceProducts("//li[@class='tab']/div[@id='tab-content2']/a");
```

