Assignment 3

Name: Soham Kamble
CWID: A20517098

1.
Header:
- Logo (BestBuy Logo)
- Navigation Icons (Collapsible Menu)
- Search Bar
- Navigation Menu (Direct Links, Dropdown Menus, etc.)
- Location Indication (Nearest Physical Store Location)
- User Account (Sign in, and other account related options)
- Shopping Cart (View Selected Items)

This header is designed to provide users with quick access to the website's most crucial pages, as well as a clear search feature, and simple access to their account, and their cart.

Center Content:
- Promotional Banner ("Today's Top Picks", "Ends Today", etc.)
- Featured Products (Outlet Deals, etc.)
- Clearance Sale (Discounted Items, etc.)
- Product Showcase (Most Viewed Items, etc.)
- Trending Now (BestBuy Drops, etc.)

Footer:
- Order & Purchases (Order Status, Delivery, Returns, Exchanges, etc.)
- Support (Recycling Options, Manage Appointments, Schedule Services, etc.)
- Partnerships (Affiliate Programs, Advertising, Development, etc.)
- Rewards & Membership (Memberships, Payments, etc.)
- Sign In/ Create Account (Create Account, or Sign into existing account)
- Newsletter Signup (Latest deals via email)

2.
Order and Purchases:
- Check Order Status
- Gift Cards
- Returns & Exchanges
- Shipping, Delivery & Pickup

Support & Services:
- Protection & Support Plans
- Shop with an Expert
- Manage an Appointment

- Contact Us
- Schedule a Service
- Visit our Support Centre

Partnerships:
- Developers
- Best Buy Business
- Best Buy Health
- Advertise with Us
- Affiliate Program
- Best Buy Education

Account Section:
- Sign in or Create Account

Newsletter Signup:
- Sign Up (Button)
- Enter email address (Input field)

Order & Purchases, Support & Services, Partnerships, Payment Options, Rewards & Membership:
- : Unordered list to list out the items.
- : List items for each option.
- <section> or <div>: To wrap each section.
- <a>: Anchor tags for clickable links.

Account Section:
- <a>: Anchor tags for "Sign in or Create Account".
- <nav>: Navigation section for account-related actions.

Newsletter Signup:
- <form>: To encapsulate the email input and submission button.
- <button>: A button to submit the form.
- <input>: Specifically, an input with type="email" for collecting email addresses.

Best Buy app:
- <a>: Anchor tag to provide more information or link to app download.

Images and Icons (like the cart icon, support centre, etc.):
- <img>: To display images.

Headers or Titles:
- <h1>, <h2>, <h3>, etc.: Header tags to denote section titles or important headings.

3.

Order & Purchases, Support & Services, Partnerships, Payment Options, Rewards & Membership:
- TagName: <a> (for the clickable links)
- HTML attribute: Using the class or id attribute if they're uniquely defined for specific links.
- LinkText: The exact text of the link, e.g., "Check Order Status"
- CSSselector:. classname if using class or #idname if using id, assuming class and id names are hypothetical .order-link or #orderStatus
- XPath: //ul/li/a[contains(text(), 'Check Order Status')] assuming the links are under

Account Section:
- TagName: <nav>
- LinkText: "Sign in or Create Account"
- HTML attribute: Again, the class or id if they are uniquely set for these elements.
- CSSselector: .account-link or #signIn
- XPath: //nav/a[contains(text(), 'Sign in or Create Account')]

Newsletter Signup:
- TagName: <input> for the email field, <button> for the submit button.
- LinkText: Not applicable for inputs
- HTML attribute: name="email" assuming that's the attribute set for email input
- CSSselector: input[name='email']
- XPath: //form/input[@name='email']

Best Buy app:
- TagName: <a>
- LinkText: The exact text associated with the app link, e.g., "Learn more"
- HTML attribute: Likely the href if it's a specific URL, or class or id if uniquely defined.
- CSSselector: .app-link
- XPath: //a[contains(text(), 'Learn more')]

Images and Icons:
- TagName: <img>
- LinkText: Not applicable for images
- HTML attribute: src attribute which defines the image source, or alt attribute which defines alternate text.
- CSSselector: img[src='path-to-image.jpg']
- XPath: //img[@src='path-to-image.jpg']

Headers or Titles:
- TagName: <h1>, <h2>, <h3>, etc.
- LinkText: Exact text of the heading if it's a link.
- HTML attribute: class or id if they are set.

- CSSselector: h2.title-class
- XPath: //h2[contains(text(), 'Section Title')]

4.

Header (with BestBuy logo, search bar, account icon, and cart):
- BestBuy Logo: Mouse click to return to the homepage.
- Search Bar:
  - Keyboard input text for search queries.
  - Mouse click on the search icon to submit the query.
- Account Icon: Mouse click to access account details, login, or register.
- Cart Icon: Mouse click to view cart details or proceed to checkout.

Navigation Bar (with categories like Electronics, Appliances, etc.):
- Category Items: Mouse click to navigate to the specific category page.
- Hover: Some categories might have dropdown sub-menus when hovered over.

Main Carousel (with changing promotional images):
- Left/Right Arrows: Mouse click to navigate between promotional banners.
- Promotional Images: Mouse click to view the detailed promotion or product.

Featured Products (grid of products with images, names, and prices):
- Product Image/Name: Mouse click to view the product details.
- Add to Cart Button: Mouse click to add the product to the shopping cart.

Footer (with links like Customer Service, Check Order Status, etc.):
- Links: Mouse click to navigate to the specific information or service page.

Side Ad Banners:
- Ad Images: Mouse click to view the advertised product or offer.

For any interactive elements, such as dropdowns, sliders, or modal pop-ups, there would be additional actions like:
- Selecting items from dropdowns.
- Dragging sliders.
- Closing modals via 'X' buttons or outside click.

5.

Due to AJAX queries, animations, or other factors, modern online applications frequently feature dynamic and asynchronous content, which implies certain items load after the initial page load. The following WebElements on the BestBuy homepage, as shown in the visual representation, may require wait times for user interactions depending on their usual behaviour.:

Header

Search Bar:
- An asynchronous search suggestion dropdown may display as a user begins to type. Before picking an item from this menu, you might need to wait.

Featured Products:
- If product photos, prices, or details are based on real-time data, user preferences, or promotions, they may load asynchronously. Before adding a product to your cart or checking its information, you might need to wait.

Navigation Bar:
- Sub-menus/Dropdowns: If a category has sub-categories that pop up when you hover over them or click on them, they could load asynchronously and need a wait before you can interact with them.

Main Carousel:
- Waits may be necessary before interacting (such as clicking on a promotion) if the promotional banners load asynchronously if there is a delay in the banner change.

Lazy Loading Elements:
- For graphics or sections of modern websites that are not immediately visible, "lazy loading" is sometimes used. The dynamic loading of these items occurs as visitors scroll down. If there are such parts, they would require delays as they appeared on the BestBuy homepage.

Cart Icon:
- It's possible for the cart's contents or number of items to change asynchronously, especially after adding an item. Before viewing the cart or checking out, you might have to wait.

Side Ad Banners:
- These banners may require users to wait before interacting if they load content based on user behaviour or promotions.

Account Icon:
- When clicked, a dropdown or registration window may appear. If this content loads dynamically, you might need to wait before entering your login information or choosing an option.

Pop-ups or Modal Windows:
- Waits will be necessary before interacting with any promotional pop-ups, login modals, or other interactive windows that display after a specific action or after a delay.

Footer:
- Some footers feature sections that can be clicked to expand or collapse. Waits might be required if the content of these sections loads dynamically.
- Any AJAX-loaded Content:

- Depending on user activities like filtering, sorting, or selecting preferences, some content may load. After user activity, these areas will require waits.

When automating tests or website interactions, it is crucial to take these wait conditions into account because they guarantee that the element is prepared for interaction and guard against mistakes or skipped processes.