**PROJECT FUSION**

* Purpose of this framework is to help the end users to directly jump to the environment of automation testing.
* Need to be aware of Manual Testing
* Almost all the basic web elements on the webpage have been covered
* Code can be modified or tweaked according to the end user need

# **Web Elements List:**

**Browser Operations** – Launch, navigate, maximize, minimize, refresh and exit

**Web Page Operations** – Get the title of the page, URL of the page

**Link Operations** – Click on the Link, return to the home page, and return to the link name

**Edit Box Operations** – Enter a value, get a new value, delete

**Button Operations** – Enable/disable button status, display status update

**Text Operations** – Capture or return messages/texts on the webpage

**Image Operations** – General image display, clickable image function, redirecting image link

**Frame Operations** – Switch to a specific web page frame from the top window and vice versa

**Checkbox Operations** – Tick and undo

**Drop Down Operations** – Click on the drop-down menu, select and get the count

**Tables:** Tables are used to display data in rows and columns.

**Alerts and pop-ups:** alerts, confirmation dialogs, and pop-ups that appear on webpages.

**Drag and drop elements:** drag-and-drop interactions, where users click and hold an element, drag it to a different location, and release it

**Filters:** Identify the filter elements on the webpage

**Text Area:** lines of text. It shows an area carved inside the webpage, Text colours, size

**Wait:** concept to handle dynamic web elements, asynchronous behaviour, and page loading delays

**Screenshot Capture:** capturing screenshots of web pages for visual validation or documentation purposes.

**Report Generation:** test reports with details of test execution results, including passed tests, failed tests, and any errors encountered during testing

**File Uploads/Downloads:** interact with file upload and download dialogs in web browsers.

**UI Testing for File Management Systems**: This could include actions such as creating, deleting, renaming, or moving files within the application's UI

# **Description of the automation that acts upon web elements**

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| --- | --- |
| **Browser Operation** | **Launch**: this will launch the web browse  **Navigation**: this will help to navigate from one  Webpage to another webpage  **Maximize**: this will help to maximize the webpage  **Minimize**: this will help to minimize the webpage  **Refresh:** helps to refresh the webpage  **Exit:** helps to quit / exit from the webpage |
| **Web Page operations** | **Title**: Will help to get the title of the web page  **URL**: Will help to get the URL of the page |
| **Link Operations** | **Finding Link:** interaction of links by Link text or Partial Link text  **Clicking the Link**: locating the link and clicking  **Verify Link Destination**: verifying link directs to correct URL or no  **Check Link is present**: verifying the presence of required link  **Get All links** |
| **Check Box operation** | **Check box:** Verify whether checkbox is enabled, disabled or selected |
| **Dropdown menu** | **Find Dropdown**: for interacting with dropdown  **Select option**: to interact with browser and select  **Verify selected option**: to verify correct option is selected  **All options** |
| **Button operations** | **Finding button**: to interact with button  **Clicking button:** locating button and performing action  **Verifying button text:** to verify button on text  **Checking button state**: to check whether it is enabled or disabled |
| **Text operations** | **Finding Text Elements**  **Verifying Text** |
| **Image operations** | **Finding image:** to interact and locate on webpage  **Verifying presence:** verify image is present or not |
| **Frame operations** | **Switching to a frame:** to interact with elements inside frame  **Switching back to main document:** to switch back to main document  **Switching to parent frame:** when nested inside  Frame, switching back to parent frame |
| **Table operations** | **Finding Table:** locate table on webpage  **Extracting data from table:** extracting data from table by locating rows and cells  **Looping thru rows and cells:** to loop thru all rows and cells  **Verifying table data:** to verify content of table |
| **Alert pop up** | **Handling browser pop up** |
| **Drag and drop** | **Performing drag and drop:** Locating elements, creating actions, verifying drop |
| **Filters** | **Locating and interacting with filters** |
| **Wait operation** | **Handling excessive waits:** judiciously to avoid unnecessarily long wait times,  **Handling Customize waits:** to adjust wait times based on expected behaviour of application  **Handle Expected condition:** expected condition based on type of interaction with application |
| **Screenshot capture** | This will help for debugging  **Taking full page screenshot**  **Taking screenshot with timestamp**  **Taking screenshot of specific item** |
| **File upload / Download** | **Handling Uploading and Downloading of file** |
| **File management operations** | **File upload**  **File download**  **Create file**  **Rename file**  **Delete file**  **Navigate** |