```
1 package com.ProjectClassTask;
3 import java.awt.AWTException;
33 public class BaseClass {
      public static WebDriver driver;
35
      // WEBELEMENT METHODS
36
37
      public static void userInput(WebElement element, String value) {
38
          element.sendKeys(value);
39
      }
40
41
      public static void clickTheElement(WebElement element) {
42
          element.click();
43
44
45
      public static void booleanOptions(String name, WebElement element) {
46
47
          if (name.equalsIgnoreCase("display")) {
48
              boolean displayed = element.isDisplayed();
              System.out.println(displayed);
49
50
          } else if (name.equalsIgnoreCase("enable")) {
51
              boolean enabled = element.isEnabled();
52
              System.out.println(enabled);
53
          } else if (name.equalsIgnoreCase("select")) {
54
              boolean selected = element.isSelected();
55
              System.out.println(selected);
56
          } else {
57
              System.out.println("Invalid Element");
58
          }
59
      }
60
      public static void textOntheElement(WebElement element) {
61
62
          String text = element.getText();
63
          System.out.println(text);
64
      }
65
66
      public static void attributeOfTheElement(WebElement element, String value) {
67
          String attribute = element.getAttribute(value);
68
          System.out.println(attribute);
69
      }
70
71
      public static void clearOfTheElement(WebElement element) {
72
          element.clear();
73
      }
74
75
      public static void singleDropDown(String name, WebElement element, String value) {
76
77
          Select s = new Select(element);
78
          if (name.equalsIgnoreCase("text")) {
79
              s.selectByVisibleText(value);
          } else if (name.equalsIgnoreCase("value")) {
80
81
              s.selectByValue(value);
          } else if (name.equalsIgnoreCase("index")) {
82
83
              int val = Integer.parseInt(value); // string convert into integer
84
              s.selectByIndex(val);
85
          } else if (name.equalsIgnoreCase("deSelectValue")) {
```

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199
           } else if (option.equalsIgnoreCase("getTitle")) {
200
               String urlText = driver.getCurrentUrl();
201
               System.out.println(urlText);
202
           }
203
204
       }
205
206
       public static void navigatePage(String option) {
           if (option.equalsIgnoreCase("forward")) {
207
208
               driver.navigate().forward();
209
           } else if (option.equalsIgnoreCase("back")) {
210
               driver.navigate().back();
211
           } else if (option.equalsIgnoreCase("refresh")) {
212
               driver.navigate().refresh();
213
           }
       }
214
215
216
       public static void sleepPage(int sec) throws InterruptedException {
217
           Thread.sleep(sec);
218
       }
219
220
       public static void implicitThePage(int sec) {
221
222
           driver.manage().timeouts().implicitlyWait(sec, TimeUnit.SECONDS);
223
       }
224
225
       public static void explicitWaitOfThePage(int sec, String option, WebElement element) {
226
227
           WebDriverWait wait = new WebDriverWait(driver, 20);
228
229
           if (option.equalsIgnoreCase("visible")) {
230
               wait.until(ExpectedConditions.visibilityOf(element));
231
           } else if (option.equalsIgnoreCase("clickable")) {
232
               wait.until(ExpectedConditions.elementToBeClickable(element));
233
234
           }
235
       }
236
237
       public static void takesScreen(String fileName) throws IOException {
238
239
           TakesScreenshot ts = (TakesScreenshot) driver;
240
241
           File source = ts.getScreenshotAs(OutputType.FILE);
242
243
           File desti = new File("D:\\ecl\\javatask\\SeleniumTask\\screenshot\\" + fileName +
   ".png");
244
           // FileUtils.copyFile(source, desti);
245
           FileHandler.copy(source, desti);
246
       }
247
248
       public static void keyBord(String option) throws AWTException {
249
250
           Robot r = new Robot();
251
           if (option.equalsIgnoreCase("clickControl")) {
252
253
               r.keyPress(KeyEvent.VK_CONTROL);
254
           } else if (option.equalsIgnoreCase("releaseControl")) {
```

```
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BaseClass.java
       public static void jsScrollPixel(String xDirection, String yDirection) {
312
313
           try {
                JavascriptExecutor js1 = (JavascriptExecutor) driver;
314
                js1.executeScript("window.scrollBy(" + xDirection + "," + yDirection + ")");
315
316
           }
317
318
           catch (Exception e) {
319
                e.printStackTrace();
320
                System.out.println(e);
321
           }
322
       }
323
324
       public static void scrollBottomPage(String option) {
325
326
           try {
327
                JavascriptExecutor js2 = (JavascriptExecutor) driver;
328
                if (option.equalsIgnoreCase("scrollDown")) {
329
                    js2.executeScript("window.scrollBy(0,document.body.ScrollHeight);");// entire
   page scroll down
330
                } else if (option.equalsIgnoreCase("scrollUp")) {
331
                    js2.executeScript("window.scrollBy(0,-document.body.ScrollHeight);"); //
   entire page scroll up
332
           } catch (Exception e) {
333
334
                e.printStackTrace();
335
                System.out.println(e);
336
           }
337
       }
338
339
       public static String singleWindowHandle() {
340
341
           String windowHandle = driver.getWindowHandle();
342
343
           System.out.println(windowHandle);
344
345
           return windowHandle;
346
347
       }
348
349
       public static void multipleWindowHandle(String firstWindowId) {
350
351
           Set<String> windowHandles = driver.getWindowHandles();
352
353
           System.out.println(windowHandles);
354
355
           System.out.println(windowHandles.size());
356
357
           for (String allID : windowHandles) {
358
359
                if (!(allID == firstWindowId)) {
360
                    driver.switchTo().window(allID);
361
                   break;
362
                }
363
           }
364
       }
365
366
       public static void frameSize(String value) {
```

```
BaseClass.java
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367
           List<WebElement> findElements = driver.findElements(By.taqName(value));
368
369
370
           System.out.println(findElements.size());
371
372
       }
373
       public static void frameSelection(String option, String value) {
374
375
376
           if (option.equalsIgnoreCase("index")) {
               int indexVal = Integer.parseInt(value);
377
378
               driver.switchTo().frame(indexVal);
379
           }
380
           else if (option.equalsIgnoreCase("id")) {
381
               driver.switchTo().frame(value);
382
383
           }
384
       }
       public static void frameSelectionElement(WebElement element) {
385
386
387
               driver.switchTo().frame(element);
388
       public static void frameParentDefault(String option,String value) {
389
390
           if (option.equalsIgnoreCase("parent")) {
391
               driver.switchTo().parentFrame();
392
393
           }
           else if (option.equalsIgnoreCase("defaultContenet")) {
394
395
               driver.switchTo().defaultContent();
396
           }
397
       }
398
399
       public static void multiWindow2() {
400
           Set<String> windowHandles = driver.getWindowHandles();
401
           Iterator = windowHandles.iterator();
402
           String firstWin = (String) iterator.next();
403
           String secondWin = (String) iterator.next();
404
           driver.switchTo().window(secondWin);
405
       }
406
407 }
408
409
```