```python
from selenium.webdriver.common.by import By

from selenium.webdriver.support import expected_conditions as EC


from pages.base_page import BasePage

from pages.cart_page import CartPage


# Importing necessary page classes

from pages.login_page import LoginPage

from pages.my_account_page import MyAccountPage

from pages.register_page import RegisterPage

from pages.search_result_page import SearchResultPage


class HeaderMenu(BasePage):

    def __init__(self, driver, wait):

        super().__init__(driver, wait)

        self.driver = driver

        self.wait = wait


    # Locators

    REGISTER_LINK = (By.XPATH, "//a[contains(text(),'Register')]")

    SHOPPING_CART_LINK = (By.XPATH, "//span[contains(text(),'Shopping cart')]")

    SEARCH_BOX = (By.ID, "small-searchterms")

    SEARCH_BUTTON = (By.XPATH, ".//button[contains(text(),'Search')]")

    LOGIN_LINK = (By.XPATH, "//a[contains(text(),'Log in')]")

    MY_ACCOUNT_LINK = (By.XPATH, "//a[@class='ico-account'][text()='My account']")

    LOGOUT_LINK = (By.XPATH, "//a[contains(text(),'Log out')]")
```

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def open_register_page(self):

    self.wait.until(EC.element_to_be_clickable(self.REGISTER_LINK)).click()

    register_page = RegisterPage(self.driver, self.wait)

    return register_page


def open_cart_page(self):

    self.wait.until(EC.element_to_be_clickable(self.SHOPPING_CART_LINK)).click()

    cart_page = CartPage(self.driver, self.wait)

    return cart_page


def search_bar(self, product_name):

    box = self.wait.until(EC.element_to_be_clickable(self.SEARCH_BOX))

    box.clear()

    box.send_keys(product_name)

    self.wait.until(EC.element_to_be_clickable(self.SEARCH_BUTTON)).click()

    search_result_page = SearchResultPage(self.driver, self.wait)

    return search_result_page


def open_login_page(self):

    menu = self.wait.until(EC.visibility_of_element_located(self.LOGIN_LINK))

    menu.click()

    login_page = LoginPage(self.driver, self.wait)

    return login_page


def open_my_account_page(self):

    self.wait.until(EC.element_to_be_clickable(self.MY_ACCOUNT_LINK)).click()
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        my_account_page = MyAccountPage(self.driver, self.wait)

        return my_account_page


    def click_log_out(self):

        self.wait.until(EC.element_to_be_clickable(self.LOGOUT_LINK)).click()
```