Exercise 12

1.2 POM Documentation

Key changes and POM benefits:

1. *Abstraction through page classes*. We've created separate page classes, which extends the base Page class.The base Page class provides a foundation for all page objects. Each specific page (DuckDuckGo, UniMarburg, etc.) handles only its own elements and behaviors. It has allowed us to separate a test logic of different pages' interactions

   The list of Classes and their behavior:

   a. <u>DuckDuckGoPage</u> - handles a Search logic: click on search field, type in a query, find result and open it
   b. <u>UniMarburgPage</u> - handles a Language selection: we have to check and switch page's language twice, and basically this is an independent block which refers not to the Department part but University part. So basically we've created a different object to store this function
   c. <u>UniMarburgDp12Page</u> - handles a Department's page interaction, mostly block's verification
   d. <u>ModuleHandbookPage</u> - handles interactions with module guide: transitions to SQ module and verification of module's info
   e. <u>Page</u> - just an abstract class to group a logic
   f. <u>Ub12Test</u> - the Main class, which runs the test case

2. *Centralized Element Locators.* The variable name makes it easy to understand which field in the site markup it refers to and, if necessary, the developer can quickly replace all the lines where this element is used.

```
// Before:
driver.findElement(By.id("search_form_input_homepage"))

// After:
private static final By SEARCH_BOX =
By.id("search_form_input_homepage");
```

3. *Reusable Methods.* If needed, it is possible to reuse some methods to handle a repeated behavior (for example, Language selection)
4. *Improved Test Readability.* Now it is easier to read the final test class. It consists only of needed methods with self-explanatory names.