# **Stere Documentation**

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# CHAPTER 1

**Documentation** 

## 1.1 Getting Started

## 1.1.1 Requirements

Python >= 3.6

## 1.1.2 Installation

Stere can be installed with pip using the following command:

pip install stere

## 1.1.3 **Setup**

## Specifying the automation library

Using a *stere.ini* file, the automation library used can be specified. This determines which library specific Fields are loaded.

*splinter* is used by default, and *appium* is supported. Any other value will be accepted, which will result in no specific Fields being loaded.

```
[stere]
library = appium
```

## Stere.browser

Stere requires a browser (aka driver) to work with. This can be any class that ultimately drives automation. Pages, Fields, and Areas inherit their functionality from this object.

Here's an example with Splinter:

```
from stere import Stere
from splinter import Browser

Stere.browser = Browser()
```

As long as the base Stere object has the browser set, the browser's functionality is passed down to everything else.

## Stere.url\_navigator

Optionally, an attribute called *url\_navigator* can be provided a string that maps to the method in the browser that opens a page.

In Splinter's case, this is the *visit* method.

```
from stere import Stere
from splinter import Browser

Stere.browser = Browser()
Stere.url_navigator = 'visit'
```

This attribute is used by the *Page* class to make url navigation easier.

## 1.2 Pages

### class stere.Page

Represents a single page in an application. The Page class is the base which all Page Objects should inherit from.

Inheriting from Page is not required for Fields or Areas to work.

All attribute calls that fail are then tried on the browser attribute. This allows classes inheriting from Page to act as a proxy to whichever browser/driver is being used.

Using Splinter's browser.url method as an example, the following methods are analogous:

```
>>> MyPage.url == MyPage.browser.url == browser.url
```

The choice of which syntax to use depends on how you want to write your test suite.

## navigate()

When the base Stere object has been given the *url\_navigator* attribute, and a Page Object has a *page\_url* attribute, the *navigate()* method can be called.

This method will call the method defined in *url\_navigator*, with *page\_url* as the first parameter.

**Returns** The instance where navigate() was called from.

Return type *Page* 

## **Example**

```
>>> from splinter import Browser
>>> from stere import Page
>>>
>>>
>>> class Home (Page):
    def ___init___(self):
>>>
           self.page_url = 'https://en.wikipedia.org/'
>>>
>>>
>>>
>>> Stere.browser = Browser()
>>> Stere.url_navigator = 'visit'
>>>
>>> home_page = Home()
>>> home_page.navigate()
```

## 1.2.1 Using Page as a Context Manager

Page contains \_\_enter\_\_() and \_\_exit\_\_() methods. This allows any page to be used as a Context Manager.

Example:

```
from pages import Home
with Home() as p:
    p.login_button.click()
```

## 1.3 Fields

## 1.3.1 Field

```
class stere.fields.Field
```

Field objects represent individual pieces on a page. Conceptually, they're modelled after general behaviours, not specific HTML elements.

#### **Parameters**

- **strategy** (str) The type of strategy to use when locating an element.
- **locator** (*str*) The locator for the strategy.
- workflows (list) Any workflows the Field should be included with.

## **Example**

```
>>> from stere.fields import Field
>>> my_field = Field('xpath', '//*[@id="js-link-box-pt"]/small/span')
```

#### element

The result of a search operation on the page. All attribute calls on the Field that fail are then tried on the element.

This allows classes inheriting from Field to act as a proxy to the underlying automation library.

Using Splinter's visible attribute as an example, the following methods are analogous:

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```
>>> Field.visible == Field.find().visible == Field.element.visible
```

#### includes()

Will search every element found by the Field for a value property that matches the given value. If an element with a matching value is found, it's then returned.

Useful for when you have non-unique elements and know a value is in one of the elements, but don't know which one.

**Parameters value** (str) – A text string inside an element you want to find.

Returns element

## **Example**

```
>>> class PetStore(Page):
>>> def __init__(self):
>>> self.inventory = Link('xpath', '//li[@class="inv"]')
>>>
>>> pet_store = PetStore()
>>> pet_store.inventory_list.includes("Kittens").click()
```

## before()

Called automatically before methods with the @use\_before decorator are called.

By default it does nothing. Override this method if an action must be taken before the method has been called.

In this example, Dropdown has been subclassed to hover over the element before clicking.

```
from stere.fields import Dropdown

class CSSDropdown(Dropdown):
    """A Dropdown that's customized to hover over the element before attempting
    a select.
    """
    def before(self):
        self.element.mouse_over()
```

#### after()

Called automatically before methods with the @use\_after decorator are called.

By default it does nothing. Override this method if an action must be taken after the method has been called.

## value\_contains()

Check if the value of the Field contains an expected value.

#### **Parameters**

- **expected** (str) The expected value of the Field
- wait\_time (int) The number of seconds to wait

Returns True if the value was found, else False

Return type bool

```
>>> class PetStore(Page):
>>> def __init__(self):
>>> self.price = Link('xpath', '//li[@class="price"]')
>>>
>>> pet_store = PetStore()
>>> assert pet_store.price.value_contains("19.19", wait_time=6)
```

#### value equals()

Check if the value of the Field equals an expected value.

#### **Parameters**

- **expected** (str) The expected value of the Field
- wait\_time (int) The number of seconds to wait

**Returns** True if the value was found, else False

Return type bool

## **Example**

```
>>> class PetStore(Page):
>>> def __init__(self):
>>> self.price = Link('xpath', '//li[@class="price"]')
>>>
>>> pet_store = PetStore()
>>> assert pet_store.price.value_equals("$19.19", wait_time=6)
```

## 1.3.2 Root

#### class stere.fields.Root

A simple wrapper over Field, it does not implement a performer method. Although Root has no specific behaviour, it can be useful when declaring a root for an Area or RepeatingArea.

## **Example**

```
>>> from stere.areas import RepeatingArea
>>> from stere.fields import Root
>>>
>>>
>>>
>>>
>>> collections = RepeatingArea(
>>> root=Root('xpath', '//table/tr'),
>>> quantity=Text('css', '.collection_qty'),
>>> )
```

## 1.3.3 Text

## class stere.fields.Text

A simple wrapper over Field, it does not implement a performer method. Although Root has no specific behaviour, it can be useful when declaring that a Field should just be static Text.

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```
>>> from stere.fields import Text
>>>
>>>
>>>
>>> self.price = Text('id', 'item_price')
```

## 1.3.4 Performer method

A Field can have a single method be designated as a performer. This causes the method to be called when the Field is inside an Area and that Area's perform() method is called.

For example, Input's performer is the fill() method, and Button's performer is the click() method. Given the following Area:

```
search = Area(
   query=Input('id', 'xsearch'),
   submit=Button('id', 'xsubmit'),
)
```

and the following script:

```
search.perform()
```

When *search.perform()* is called, *query.fill()* is called, followed by *submit.click()*.

See the documentation for Area for more details.

## 1.3.5 Subclassing Field

Field can be subclassed to suit your own requirements.

If the \_\_init\_\_() method is overwritten, make sure to call super() before your own code.

If your class needs specific behaviour when interacting with Areas, it must use the @stere\_performer decorator to specify a performer method.

## Assigning the performer method

When creating a new type of Field, the stere\_performer class decorator can be used to assign a performer method.

The *consumes arg* argument should be used to specify if the method should use an argument provided by Area.perform() or not.

## 1.4 Splinter Fields

The following Fields are available with the default Splinter implementation. Each implements a specific performer method.

- Button: Clickable object.
- *Checkbox*: Object with a set and unset state.
- *Dropdown*: Object with multiple options to choose from.
- Input: Object that accepts keyboard input.
- Link: Clickable text.

All Fields that use Splinter also inherit the following convenience methods:

```
SplinterBase.is_present()
```

Checks if an element is present in the DOM.

Takes the same arguments as Splinter's is\_element\_present\_by\_xpath

```
SplinterBase.is_not_present()
```

Checks if an element is not present in the DOM.

Takes the same arguments as Splinter's is\_element\_not\_present\_by\_xpath

```
SplinterBase.is_visible()
```

Checks if an element is present in the DOM and visible.

**Parameters** wait\_time (int) - The number of seconds to wait

```
SplinterBase.is_not_visible()
```

Checks if an element is present in the DOM but not visible.

**Parameters** wait\_time (int) - The number of seconds to wait

Example:

```
class Inventory(Page):
    def __init__(self):
        self.price = Link('css', '.priceLink')

assert Inventory().price.is_present(wait_time=6)
```

```
class stere.fields.Button
```

Convenience Class on top of Field, it implements *click()* as its performer.

```
Button.click()
```

Uses Splinter's click method.

## **Example**

```
>>> purchase = Button('id', 'buy_button')
>>> purchase.click()
```

```
class stere.fields.Checkbox
```

By default, the Checkbox field works against HTML inputs with type="checkbox".

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Can be initialized with the *default\_checked* argument. If True, the Field assumes the checkbox's default state is checked.

It implements opposite() as its performer.

```
Checkbox.set_to()
```

Set a checkbox to the desired state.

Parameters state (bool) - True for check, False for uncheck

## Example

```
>>> confirm = Checkbox('id', 'selectme')
>>> confirm.set_to(True)
```

#### Checkbox.toggle()

If the checkbox is checked, uncheck it. If the checkbox is unchecked, check it.

```
>>> confirm = Checkbox('id', 'selectme')
>>> confirm.toggle()
```

#### Checkbox.opposite()

Switches the checkbox to the opposite of its default state. Uses the default\_checked attribute to decide this.

```
>>> confirm = Checkbox('id', 'selectme')
>>> confirm.opposite()
```

## class stere.fields.Dropdown

By default, the Dropdown field works against HTML Dropdowns. However, it's possible to extend Dropdown to work with whatever implementation of a CSS Dropdown you need.

It implements *select()* as its performer.

The *option* argument can be provided to override the default implementation. This argument expects a Field. The Field should be the individual options in the dropdown you wish to target.

## Dropdown.options()

Searches for all the elements that are an option in the dropdown.

### Returns list

```
Dropdown.select()
```

Searches for an option by its html content, then clicks the one that matches.

**Parameters value** (str) – The option value to select.

Raises ValueError - The provided value could not be found in the dropdown.

## class stere.fields.Input

A simple wrapper over Field, it implements *fill()* as its performer.

```
Input.fill()
```

Uses Splinter's fill method.

**Parameters value** (str) – The text to enter into the input.

```
>>> first_name = Input('id', 'fillme')
>>> first_name.fill('Joseph')
```

Fills the element with value.

```
class stere.fields.Link
```

A simple wrapper over Field, it implements *click()* as its performer.

```
Link.click()
```

Uses Splinter's click method.

## **Example**

```
>>> login = Link('id', 'loginLink')
>>> login.click()
```

Clicks the element.

## 1.4.1 Location Strategies

These represent the way a locator can be searched for.

By default, the strategies available with Splinter are:

- css
- xpath
- tag
- name
- · text
- id
- value

These strategies can be overridden with a custom strategy (ie: You can create a custom css strategy with different behaviour).

## 1.4.2 Custom Locator Strategies

Custom strategies can be defined using the @strategy decorator on top of a Class.

Any class can be decorated with @strategy, as long as the \_find\_all and \_find\_all\_in\_parent methods are implemented.

In the following example, the 'data-test-id' strategy is defined. It wraps Splinter's find\_by\_xpath method to simplify the locator required on the Page Object.

```
from stere.strategy import strategy

@strategy('data-test-id')
class FindByDataTestId():
```

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```
def _find_all(self):
    """Find from page root."""
    return self.browser.find_by_xpath(f'.//*[@data-test-id="{self.locator}"]')

def _find_all_in_parent(self):
    """Find from inside parent element."""
    return self.parent_locator.find_by_xpath(f'.//*[@data-test-id="{self.locator}

--"]')
```

With this implemented, Fields can now be defined like so:

```
my_button = Button('data-test-id', 'MyButton')
```

Support for data-\* attributes is also available via the add\_data\_star\_strategy function:

```
from stere.strategy import add_data_star_strategy
add_data_star_strategy('data-test-id')
```

This will automatically add the desired data-\* attribute to the valid Splinter strategies.

## 1.5 Appium Fields

The following Fields are available with the default Appium implementation. Each implements a specific performer method.

- Button: Clickable object.
- *Input*: Object that accepts keyboard input.

```
class stere.fields.Button
```

Convenience Class on top of Field, it implements *click()* as its performer.

```
Button.click()
```

Uses Appium's click method.

Example:

```
>>> purchase = Button('id', 'buy_button')
>>> purchase.click()
```

```
class stere.fields.Input
```

A simple wrapper over Field, it implements *send\_keys()* as its performer.

```
Input.send_keys()
```

Uses Appium's fill method.

**Parameters value** (str) – The text to enter into the input.

Example:

```
>>> first_name = Input('id', 'fillme')
>>> first_name.send_keys('Joseph')
```

Fills the element with value.

## 1.5.1 Location Strategies

These represent the way a locator will be searched for.

By default, the strategies available are:

- · accessibility\_id
- android\_uiautomator
- · ios\_class\_chain
- · ios\_predicate
- · ios uiautomation

These strategies can be overridden with a custom strategy (ie: You can create a custom accessibility\_id strategy with different behaviour).

## 1.6 Areas

Areas represent groupings of Fields on a Page.

The following Area objects are available:

- Area: A non-hierarchical, unique group of Fields.
- Repeating Area: A hierarchical, non-unique group of Areas. They require a Root Field.

#### class stere.areas.Area

A collection of unique fields.

The Area object takes any number of Fields as arguments. Each Field must be unique on the Page and only present in one Area.

Example:

```
>>> from stere.areas import Area
>>> from stere.fields import Button
>>>
>>> class Album (Page):
        def __init__(self):
>>>
            self.tracks = Area(
>>>
                first_track=Button('xpath', '//my_xpath_string'),
                second_track=Button('xpath', '//my_xpath_string'),
>>>
                third_track=Button('xpath', '//my_xpath_string'),
>>>
>>>
            )
>>> def test_stuff():
>>>
        album = Album()
>>>
        album.tracks.third_track.click()
```

#### perform()

For every Field in an Area, "do the right thing" by calling the Field's perform() method.

Fields that require an argument can either be given sequentially or with keywords.

#### **Parameters**

- args Arguments that will sequentially be sent to Fields in this Area.
- **kwargs** Arguments that will be sent specifically to the Field with a matching name.

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Given the following Page Object:

```
>>> from stere.areas import Area
>>> from stere.fields import Button, Input
>>>
>>> class Login():
>>>
    def ___init___(self):
>>>
          self.form = Area(
               username=Input('id', 'app-user'),
>>>
               password=Input('id', 'app-pwd'),
>>>
                submit=Button('id', 'app-submit')
>>>
            )
>>>
```

Any of the following styles are valid:

```
>>> def test_login():
>>> login = Login()
>>> login.my_area.perform('Sven', 'Hoek')
```

```
>>> def test_login():
>>> login = Login()
>>> login.my_area.perform(username='Sven', password='Hoek')
```

```
>>> def test_login():
>>> login = Login()
>>> login.my_area.perform('Sven', password='Hoek')
```

#### workflow()

Sets the current workflow for an Area.

Designed for chaining before a call to perform().

**Parameters value** (str) – The name of the workflow to set.

**Returns** The calling Area

Return type Area

Example:

```
>>> my_area.workflow('Foobar').perform()
```

## class stere.areas.RepeatingArea

Represents multiple identical Areas on a page.

A root argument is required, which is expected to be a non-unique Field on the page.

A collection of Areas are built from every instance of the root that is found. Every other Field provided in the arguments is populated inside each Area.

In the following example, there's a table with 15 rows. Each row has two cells. The sixth row in the table should have an item with the name "Banana" and a price of "\$7.00"

```
>>> from stere.areas import RepeatingArea
>>> from stere.fields import Root, Link, Text
>>>
>>> class Inventory(Page):
```

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```
>>> def __init__(self):
>>> self.inventory_items = RepeatingArea(
>>> root=Root('xpath', '//table/tr'),
>>> name=Link('xpath', './td[1]'),
>>> price=Text('xpath', './td[2]'),
>>> )
```

```
>>> inventory = Inventory()
>>> assert 15 == len(inventory.areas)
>>> assert "Banana" == inventory.areas[5].name
>>> assert "$7.00" == inventory.areas[5].price
```

#### areas

Find all instances of the root, then return a list of Areas: one for each root.

**Returns** list-like collection of every Area that was found.

Return type Areas

## **Example**

```
>>> def test_stuff():
>>>          listings = MyPage().my_repeating_area.areas
>>>          listings[0].my_input.fill('Hello world')
```

#### area\_with()

Searches the RepeatingArea for a single Area where the Field's value matches the expected value and then returns the entire Area object.

## **Parameters**

- **field\_name** (str) The name of the Field object.
- **field\_value** (*str*) The value of the Field object.

**Returns** The Area object that matches the search.

Return type Area

## **Example**

```
>>> class Inventory (Page):
>>>
        def __init__(self):
>>>
            self.items = RepeatingArea(
>>>
                root=Root('xpath', '//my_xpath_string'),
>>>
                description=Text('xpath', '//my_xpath_string')
>>>
            )
>>>
>>> def test_stuff():
>>>
        inventory = Inventory()
        found_area = inventory.items.area_with(
>>>
>>>
            "description", "Bananas")
```

#### class stere.areas.Areas

Searchable collection of Areas.

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Behaves like a list.

#### containing()

Searches for Areas where the Field's value matches the expected value and then returns an Areas object with all matches.

#### **Parameters**

- **field\_name** (str) The name of the Field object.
- **field\_value** (str) The value of the Field object.

**Returns** A new Areas object with matching results

Return type Areas

## **Example**

```
>>> class Inventory (Page):
        def __init__(self):
>>>
            self.items = RepeatingArea(
>>>
>>>
                root=Root('xpath', '//my_xpath_string'),
>>>
                description=Text('xpath', '//my_xpath_string')
>>>
            )
>>>
>>> def test_stuff():
>>>
       # Ensure 10 items have a price of $9.99
>>>
        inventory = Inventory()
>>>
        found_areas = inventory.items.areas.containing(
>>>
            "price", "$9.99")
>>>
      assert 10 == len(found areas)
```

## contain()

Check if a Field in any Area contains a specific value.

#### **Parameters**

- **field\_name** (str) The name of the Field object.
- **field\_value** (str) The value of the Field object.

**Returns** True if matching value found, else False

Return type bool

## Example

```
>>> class Inventory (Page):
        def __init__(self):
>>>
>>>
            self.items = RepeatingArea(
>>>
                root=Root('xpath', '//div[@id='inventory']'),
>>>
                description=Text('xpath', './td[1]')
>>>
            )
>>>
>>> def test_stuff():
>>>
        inventory = Inventory()
>>>
        assert inventory.items.areas.contain(
>>>
            "description", "Bananas")
```

## 1.6.1 Reusing Areas

Sometimes an identical Area may be present on multiple pages. Areas do not need to be created inside a page object, they can be created outside and then called from inside a page.

```
header = Area(
    ...
)

class Items(Page):
    def __init__(self, *args, **kwargs):
        self.header = header
```

## 1.6.2 Subclassing Areas

If an Area appears on many pages and requires many custom methods, it may be better to subclass the Area instead of embedding the methods in the Page Object:

```
class Header(Area):
    def __init__(self, *args, **kwargs):
        super().__init__(*args, **kwargs)

def my_custom_method(self, *args, **kwargs):
        ...

class Main(Page):
    def __init__(self, *args, **kwargs):
        self.header = Header()

class Other(Page):
    def __init__(self, *args, **kwargs):
        self.header = Header()
```

## 1.7 Repeating

class stere.areas.Repeating

#### **Parameters**

- root (Field) A non-unique root to search for.
- repeater (Repeating) An object that inherits from Repeating.

Represents abstract non-unique collections that repeat, based on a common root.

This can be used to identify anything that not only appears multiple times, but also contains things which appear multiple times.

Repeating are inherintly confusing and should only be used if something appears multiple times, contains something else that appears multiple times, and is truly non-unique with no other way to target it.

The last object in a chain of Repeating must be a RepeatingArea. This is because ultimately, there must be an end to the number of things that repeat.

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A page where multiple "project" containers appear, each with a table of items.

```
>>> from stere.areas import Repeating, RepeatingArea
>>> from stere.fields import Root, Link, Text
>>>
>>> projects = Repeating(
>>>
      root=Root('css', '.projectContainer'),
       repeater=RepeatingArea(
           root=Root('xpath', '//table/tr'),
            description=Link('xpath', './td[1]'),
>>>
            cost=Text('xpath', './td[2]'),
>>>
>>>
       )
>>> )
>>>
>>> assert 2 == len(projects.children)
>>> first_project = projects.children[0]
>>> assert first_project.areas.contains(
        'description', 'Solar Panels')
>>>
>>>
>>> second_project = projects.children[1]
>>> assert second_project.areas.contains(
        'description', 'Self-Driving Cars')
>>>
```

#### new container()

Must return an object to contain results from Repeater.children()

By default a list is returned.

Returns list

## children()

Find all instances of the root, then return a collection containing children built from those roots.

**Returns** list-like collection of every repeater that was found.

## 1.8 Workflows

When working with an Area that has multiple possible routes, there may be Fields which you do not want the .perform() method to call under certain circumstances.

Take the following example Page Object:

Calling *AddSomething().form.perform()* would cause the save button and then the cancel button to be acted on.

In these sorts of cases, Workflows can be used to manage which Fields are called.

Calling AddSomething().form.workflow("success").perform() will ensure that only Fields with a matching workflow are called.

## 1.9 Best Practices

A highly opinionated guide. Ignore at your own peril.

## 1.9.1 Favour adding methods to Fields and Areas over Page Objects

If a new method is acting on a specific Field, subclass the Field and add the method there instead of adding the method to the Page Object.

#### Wrong:

```
class Inventory(Page):
    def __init__(self):
        self.medals = Field('id', 'medals')

    def count_the_medals(self):
        return len(self.medals.find())

def test_you_got_the_medals():
    inventory = Inventory()
    assert 3 == inventory.count_the_medals()
```

## Right:

```
class Medals(Field):
    def count(self):
        return len(self.find())

class Inventory(Page):
    def __init__(self):
        self.medals = Medals('id', 'medals')

def test_you_got_the_medals():
    inventory = Inventory()
    assert 3 == inventory.medals.count()
```

#### **Explanation:**

Even if a Field or Area initially appears on only one page, subclassing will lead to code that is more easily reused and/or moved.

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In this example, inventory.count\_the\_medals() may look easier to read than inventory.medals.count(). However, creating methods with long names and specific verbiage makes your Page Objects less predictable and more prone to inconsistency.

## 1.9.2 Favour page composition over inheritance

When building Page Objects for something with many reused pieces (such as a settings menu) don't build an abstract base Page Object. Build each component separately and call them in Page Objects that reflect the application.

#### Inheritance:

```
class BaseSettings(Page):
    def __init__(self):
        self.settings_menu = Area(...)

class SpecificSettings(BaseSettings):
    def __init__(self):
        super().__init__()
```

## **Composition:**

```
from .another_module import settings_menu

class SpecificSettings(Page):
    def __init__(self):
        self.menu = settings_menu
```

## **Explanation:**

Doing so maintains the benefits of reusing code, but prevents the creation of Page Objects that don't reflect actual pages in an application.

Creating abstract Page Objects to inherit from can make it confusing as to what Fields are available on a page.

## 1.9.3 Single blank line when changing page object

## Wrong:

```
def test_the_widgets():
    knicknacks = Knicknacks()
    knicknacks.menu.gadgets.click()
    knicknacks.gadgets.click()
    gadgets = Gadgets()
    gadgets.navigate()

gadgets.add_widgets.click()
    gadgets.add_sprocket.click()
```

## Right:

```
def test_the_widgets():
    knicknacks = Knicknacks()
    knicknacks.menu.gadgets.click()
    knicknacks.gadgets.click()
```

(continues on next page)

(continued from previous page)

```
gadgets = Gadgets()
gadgets.navigate()
gadgets.add_widgets.click()
gadgets.add_sprocket.click()
```

## **Explanation:**

Changing pages usually indicates a navigation action. Using a consistent line break style visually helps to indicate the steps of a test.

1.9. Best Practices

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