

Selenium Webdriver PageObject Design Pattern

Spensa Technologies, Inc
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THE PAGE OBJECT DESIGN PATTERN



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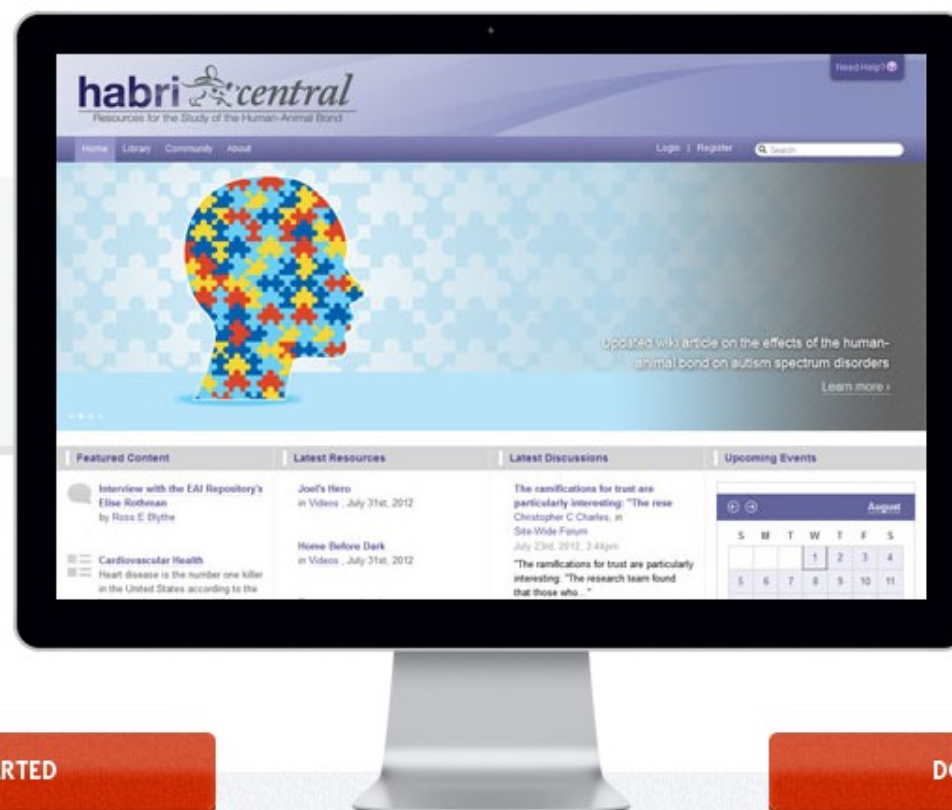
hosting

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HUBzero® is a powerful, open source software platform for creating dynamic web sites that support scientific research and educational activities

habricentral.org

Resources for the
Study of the Human-
Animal Bond.



HABRI Central exists to advance
the interdisciplinary
understanding and study of
human-animal interaction.

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Wish List

Suggest a new site feature or improvement.



Support Tickets

Check on status of your tickets.

Submit a Support Ticket

Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit



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Submit

Writing to a Text Input:

1. Find the element
2. Clear the element
3. Send keys to the element

```
<label for="trName">
```

```
  Name:
```

```
  <span class="required">required</span>
```

```
  <input id="trName" type="text" value=""  
    name="reporter[name]">
```

```
</label>
```

```
...
```

```
e = browser.find_element(by=BY.CSS, value="input[id='trName']")
```

```
e.clear()
```

```
e.send_keys("testuser")
```

```
...
```

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OPTIONAL

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Submit

Writing to a Text Input:

1. Find the element
2. Clear the element
3. Send keys to the element

```
<label for="trEmail">
```

```
  E-mail:
```

```
  <span class="required">required</span>
```

```
  <input id="trEmail" type="text" value=""  
        name="reporter[email]">
```

```
</label>
```

```
...
```

```
e = browser.find_element(by=BY.CSS, value="input[id='trEmail']")
```

```
e.clear()
```

```
e.send_keys("tu@hubzero.org")
```

```
...
```

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Please answer the question:

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Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

test problem

Attach a screenshot:

OPTIONAL

Browse...
(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Writing to a Text Input:

1. Find the element
2. Clear the element
3. Send keys to the element

```
<label for="trProblem">
```

Problem:

```
<span class="required">required</span>
```

```
<textarea id="trProblem"
```

```
name="problem[long]"> </textarea>
```

```
</label>
```

```
...
```

```
e = browser.find_element(by=BY.CSS, value="textarea[id='trProblem']")
```

```
e.clear()
```

```
e.send_keys("test problem")
```

```
...
```

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Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Uploading a file:

1. Find the element
2. Send file path to element

```
<label for="trUpload">
  Attach a screenshot:
  <span class="optional">optional</span>
  <input id="trUpload" type="file"
    name="upload">
</label>
```

...

```
e = browser.find_element(by=BY.CSS,value="input[id='trUpload']")
e.send_keys("$HOME/myscreenshot.png")
```

...

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Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Pushing a button:

1. Find the element
2. Call the element's "click()" method

```
<div class="submit">  
  <input id="send-form" type="submit"  
    value="Submit">  
</div>
```

...

```
e = browser.find_element(by=BY.CSS,value="input[id='send-form']")  
e.click()
```

...

...

File a Support Ticket

Populate the Name field

```
e = browser.find_element(by=BY.CSS, value="input[id='trName']")  
e.clear()  
e.send_keys("testuser")
```

Populate the Email field

```
e = browser.find_element(by=BY.CSS, value="input[id='trEmail']")  
e.clear()  
e.send_keys("tu@hubzero.org")
```

Populate the Problem field

```
e = browser.find_element(by=BY.CSS, value="textarea[id='trProblem']")  
e.clear()  
e.send_keys("test problem")
```

Populate the Upload field

```
e = browser.find_element(by=BY.CSS, value="input[id='trUpload']")  
e.send_keys("$HOME/myscreenshot.png")
```

Click the Submit button

```
e = browser.find_element(by=BY.CSS, value="input[id='send-form']")  
e.click()
```

...

...

File a Support Ticket

Populate the Name field

```
e = browser.find_element(by=BY.CSS, value="input[id='trName']")  
e.clear()  
e.send_keys("testuser")
```

Text Input

Populate the Email field

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e = browser.find_element(by=BY.CSS, value="input[id='trEmail']")  
e.clear()  
e.send_keys("tu@hubzero.org")
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Text Input

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```
e = browser.find_element(by=BY.CSS, value="textarea[id='trProblem']")  
e.clear()  
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Text Input

Populate the Upload field

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e = browser.find_element(by=BY.CSS, value="input[id='trUpload']")  
e.send_keys("$HOME/myscreenshot.png")
```

Text Input

Click the Submit button

```
e = browser.find_element(by=BY.CSS, value="input[id='send-form']")  
e.click()
```

Button

...

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OPTIONAL

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Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class Text(BasePageWidget):
    def __init__(self, locator):
        ...
    def value(self, text):
        e = self.find_element(self.locator)
        e.clear()
        e.send_keys(text)
```

```
<label for="trName">
    Name:
    <span class="required">required</span>
    <input id="trName" type="text" value=""
        name="reporter[name]">
</label>
```

```
...
e = browser.find_element( by=BY.CSS,
    value="input[id='trName']")
e.clear()
e.send_keys("testuser")
...
```

```
...
name = Text("input[id='trName']")
name.value('testuser')
...
```

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OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class Button(BasePageWidget):
    def __init__(self, locator):
        ...
    def click(self):
        e = self.find_element(self.locator)
        e.click()
```

```
<div class="submit">
    <input id="send-form" type="submit"
        value="Submit">
</div>
```

```
...
e = browser.find_element( by=BY.CSS,
    value="input[id='send-form']")
e.click()
...
```

```
...
submit = Text("input[id='send-form']")
submit.click()
...
```

...

File a Support Ticket

Populate the Name field

```
name = Text("input[id='trName']")  
name.value("testuser")
```

Text Input

Populate the Email field

```
email = Text("input[id='trEmail']")  
email.value("tu@hubzero.org")
```

Text Input

Populate the Problem field

```
problem = Text("textarea[id='trProblem']")  
problem.value("test problem")
```

Text Input

Populate the Upload field

```
upload = Text("input[id='trUpload']")  
upload.value("$HOME/myscreenshot.png")
```

Text Input

Click the Submit button

```
submit = Button("input[id='send-form']")  
submit.click()
```

Button

...

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Please answer the question:

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test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class Text(BasePageWidget):
    def __init__(self, locator):
        ...
    def value(self):
        e = self.find_element(self.locator)
        return e.get_attribute('value')
```

```
<label for="trName">
    Name:
    <span class="required">required</span>
    <input id="trName" type="text" value=""
        name="reporter[name]">
</label>
```

```
...
e = browser.find_element( by=BY.CSS,
    value="input[id='trName']")
e.get_attribute('value')
...
```

```
...
name = Text("input[id='trName']")
x = name.value()
...
```

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Submit

```
class Text(BasePageWidget):
    def __init__(self, locator):
        ...
    def value(self):
        e = self.find_element(self.locator)
        return e.get_attribute('value')
```

```
<label for="trProblem">
    Problem:
    <span class="required">required</span>
    <textarea id="trProblem"
        name="problem[long]"> </textarea>
</label>
```

```
...
e = browser.find_element( by=BY.CSS,
    value="input[id='trProblem']")
e.text
...
```

```
...
problem = Text("input[id='trProblem']")
x = problem.value()
...
```


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Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class TextArea(BasePageWidget):
    def __init__(self, locator):
        ...
    def value(self):
        e = self.find_element(self.locator)
        return e.text
```

```
<label for="trProblem">
    Problem:
    <span class="required">required</span>
    <textarea id="trProblem"
        name="problem[long]"> </textarea>
</label>
```

```
...
e = browser.find_element( by=BY.CSS,
    value="input[id='trProblem']")
e.text
...
```

```
...
problem = Text("input[id='trProblem']")
x = problem.value()
...
```

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test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class Upload(BasePageWidget):
    def __init__(self, text_loc, browse_loc):
        ...
    def value(self, value):
        e = self.find_element(self.browse_loc)
        e.get_attribute('value')
```

```
<label for="trUpload">
    Attach a screenshot:
    <span class="optional">optional</span>
    <input id="trUpload" type="file"
        name="upload">
</label>
```

```
...
e = browser.find_element(by=BY.CSS,
    value="input[id='trUpload']")
e.send_keys('$HOME/myscreenshot.png')
...
```

```
...
problem = Upload("input[id='trProblem']")
problem.value('$HOME/myscreenshot.png')
...
```

...

File a Support Ticket

Populate the Name field

```
name = Text("input[id='trName']")  
name.value("testuser")
```

Text Input

Populate the Email field

```
email = Text("input[id='trEmail']")  
email.value("tu@hubzero.org")
```

Text Input

Populate the Problem field

```
problem = TextArea("textarea[id='trProblem']")  
problem.value("test problem")
```

TextArea

Populate the Upload field

```
upload = Upload("input[id='trUpload']")  
upload.value("$HOME/myscreenshot.png")
```

Upload

Click the Submit button

```
submit = Button("input[id='send-form']")  
submit.click()
```

Button

...

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Eye, ankle or arm: which is part of the head?

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Attach a screenshot:

OPTIONAL

Browse...

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Go to Support Webpages

- * Knowledge Base**
- * Questions/Answers**
- * Wish List**
- * Support Tickets**

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Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Submit New Ticket

*** Name, Email, Problem**

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Support Tickets

Check on status of your tickets.

Submit a Support Ticket

Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Submit New Ticket
*** Name, Email, Problem, Captcha**

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Check on status of your tickets.

Submit a Support Ticket

Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...
(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

Submit New Ticket
*** Name, Email, Problem,**
Captcha, Upload

...

File a Support Ticket

Populate the Name field

```
e = browser.find_element(by=BY.CSS, value="input[id='trName']")  
e.clear()  
e.send_keys("testuser")
```

Populate the Email field

```
e = browser.find_element(by=BY.CSS, value="input[id='trEmail']")  
e.clear()  
e.send_keys("tu@hubzero.org")
```

Populate the Problem field

```
e = browser.find_element(by=BY.CSS, value="textarea[id='trProblem']")  
e.clear()  
e.send_keys("test problem")
```

Populate the Upload field

```
e = browser.find_element(by=BY.CSS, value="input[id='trUpload']")  
e.send_keys("$HOME/myscreenshot.png")
```

Click the Submit button

```
e = browser.find_element(by=BY.CSS, value="input[id='send-form']")  
e.click()
```

...

...

File a Support Ticket

Populate the Name field

```
name = Text("input[id='trName']")  
name.value("testuser")
```

Populate the Email field

```
email = Text("input[id='trEmail']")  
email.value("tu@hubzero.org")
```

Populate the Problem field

```
problem = TextArea("textarea[id='trProblem']")  
problem.value("test problem")
```

Populate the Upload field

```
upload = Upload("input[id='trUpload']")  
upload.value("$HOME/myscreenshot.png")
```

Click the Submit button

```
submit = Button("input[id='send-form']")  
submit.click()
```

...

...

File a Support Ticket

Populate the Support Ticket

po = TroubleReportForm("#troublereport")

```
data = {  
    'username' : 'hctest1',  
    'name' : 'hctest1 hctest1',  
    'email' : 'hctest1@hubzero.org',  
    'problem' : 'test problem text',  
    'captcha' : True,  
    'upload' : '/home/hctest1/myscreenshot.png',  
}
```

po.submit_ticket(data)

...

...

File a Support Ticket

Populate the Support Ticket

po = TroubleReportForm("#troublereport")

```
data = {  
    'name'      : 'hctest1 hctest1',  
    'email'     : 'hctest1@hubzero.org',  
    'problem'   : 'test problem text',  
}
```

po.submit_ticket(data)

...

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Browse...
(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class TroubleReportForm(BasePageWidget):
```

```
    def __init__(self):
```

```
        ...
```

```
        self.username = Text(self, 'username')
```

```
        self.captcha = Captcha(self, 'captcha')
```

```
        self.problem = Text(self, 'problem')
```

```
        self.upload = Upload(self, 'upload')
```

```
        self.submit = Button(self, 'submit')
```

```
        ...
```

```
    def submit_ticket(self, data):
```

```
        ...
```

```
    def open(self):
```

```
        ...
```

```
    def close(self):
```

```
        ...
```

Page Description

Page Services

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```
class TroubleReportForm(BasePageWidget):
```

```
    def __init__(self):
```

```
        ...
```

```
        self.username = Text(self, 'username')
```

```
        self.captcha   = Captcha(self, 'captcha')
```

```
        self.problem   = Text(self, 'problem')
```

```
        self.upload     = Upload(self, 'upload')
```

```
        self.submit     = Button(self, 'submit')
```

```
        ...
```

```
    def submit_ticket(self, data):
```

```
        ...
```

```
    def open(self):
```

```
        ...
```

```
    def close(self):
```

```
        ...
```

```
# open and close the need help pane
```

```
po = TroubleReportForm()
```

```
po.open()
```

```
po.close()
```

Support Options



Knowledge Base

Find information on common issues.



Ask the Community

Ask questions and find answers from other users.



Wish List

Suggest a new site feature or improvement.



Support Tickets

Check on status of your tickets.

Submit a Support Ticket

Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class TroubleReportForm(BasePageWidget):
```

```
    def __init__(self):
```

```
        ...
```

```
        self.username = Text(self, 'username')
```

```
        self.captcha   = Captcha(self, 'captcha')
```

```
        self.problem   = Text(self, 'problem')
```

```
        self.upload     = Upload(self, 'upload')
```

```
        self.submit     = Button(self, 'submit')
```

```
        ...
```

```
    def submit_ticket(self, data):
```

```
        ...
```

```
    def open(self):
```

```
        ...
```

```
    def close(self):
```

```
        ...
```

```
# submit a blank ticket
```

```
po = TroubleReportForm()
```

```
po.open()
```

```
data = {}
```

```
po.submit_ticket(data)
```

Support Options



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Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

Attach a screenshot:

OPTIONAL

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class TroubleReportForm(BasePageWidget):
```

```
    def __init__(self):
```

```
        ...
```

```
        self.username = Text(self, 'username')
```

```
        self.captcha   = Captcha(self, 'captcha')
```

```
        self.problem   = Text(self, 'problem')
```

```
        self.upload     = Upload(self, 'upload')
```

```
        self.submit     = Button(self, 'submit')
```

```
        ...
```

```
    def submit_ticket(self, data):
```

```
        ...
```

```
    def open(self):
```

```
        ...
```

```
    def close(self):
```

```
        ...
```

*# fill in the name, email, problem,
upload a file, then submit the ticket*

```
po = TroubleReportForm()
```

```
po.open()
```

```
data = {
```

```
    'name'      : 'testuser',
```

```
    'email'     : 'tu@hubzero.org',
```

```
    'problem'   : 'test problem',
```

```
    'upload'    : 'myscreenshot.png',
```

```
}
```

```
po.submit_ticket(data)
```

Support Options



Knowledge Base

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Ask questions and find answers from other users.



Wish List

Suggest a new site feature or improvement.



Support Tickets

Check on status of your tickets.

Submit a Support Ticket

Username:

OPTIONAL

Name:

REQUIRED

E-mail:

REQUIRED

Please answer the question:

REQUIRED

Eye, ankle or arm: which is part of the head?

Problem:

REQUIRED

test problem

Attach a screenshot:

OPTIONAL

myscreenshot.png

Browse...

(.jpg, .jpeg, .jpe, .bmp, .tif, .tiff, .png, .gif)

Submit

```
class TroubleReportForm(BasePageWidget):
```

```
    def __init__(self):
```

```
        ...
```

```
        self.username = Text(self, 'username')
```

```
        self.captcha = Captcha(self, 'captcha')
```

```
        self.problem = Text(self, 'problem')
```

```
        self.upload = Upload(self, 'upload')
```

```
        self.submit = Button(self, 'submit')
```

```
        ...
```

```
    def submit_ticket(self, data):
```

```
        ...
```

```
    def open(self):
```

```
        ...
```

```
    def close(self):
```

```
        ...
```

```
# login to the website,  
# fill in problem, upload file,  
# then submit ticket
```

```
po = Login()  
po.login_as('testuser', 'tupass')
```

```
po = TroubleReportForm()  
po.open()  
data = {  
    'problem': 'test problem',  
    'upload': 'myscreenshot.png',  
}  
po.submit_ticket(data)
```




PLATFORM
FOR SCIENTIFIC
COLLABORATION



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Login

Log in with your Hub account.

Username:

[Forgot your Username?](#)

Password:

[Forgot your Password?](#)

☐ Remember Me

Login

No account?

[Register](#). It's free!

Is this really free?

Yes! Use of HUBzero resources and tools is *free* for registered users. There are no hidden costs or fees.

Why is registration required for parts of HUBzero?

Our sponsors ask us who uses HUBzero and what they use it for. Registration helps us answer these questions. Usage statistics also focus our attention on improvements, making the HUBzero experience better for *you*.

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Links

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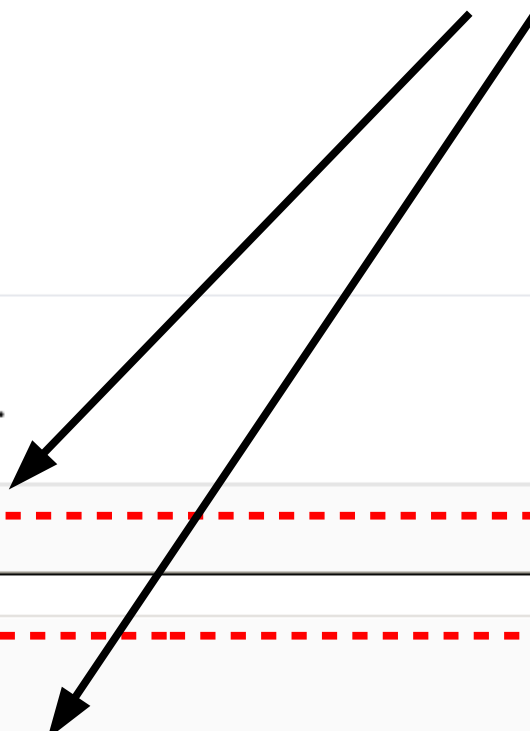
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Text Inputs



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Password:

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Login

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Checkbox

Login

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Username:

[Forgot your Username?](#)

Password:

[Forgot your Password?](#)

☐ Remember Me

Login

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Button

Login

Log in with your Hub account.

Username:

[Forgot your Username?](#)

Password:

[Forgot your Password?](#)

☐ Remember Me

Login

No account?

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```
class Login(BasePageWidget):
    def __init__(self, locator):
        ...
        self.username = Text(self,'username')
        self.password = Text(self,'password')
        self.remember = Checkbox(self,'remember')
        self.remind = Link(self,'remind')
        self.reset = Link(self,'reset')
        self.register = Link(self,'register')
        self.submit = Button(self,'submit')

    def login_as(self,username,password):
        self.username.value = username
        self.password.value = password
        self.submit.click()
```

Page Description

Page Services

Log in with your Hub account.

Username:

Forgot your Username?

Password:

Forgot your Password?

☐ Remember Me

Login

No account?

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```

class Login(BasePageWidget):
    def __init__(self, locator):
        ...
        self.username = Text(self, 'username')
        self.password = Text(self, 'password')
        self.remember = Checkbox(self, 'remember')
        self.remind = Link(self, 'remind')
        self.reset = Link(self, 'reset')
        self.register = Link(self, 'register')
        self.submit = Button(self, 'submit')

    def login_as(self, username, password):
        self.username.value = username
        self.password.value = password
        self.submit.click()

```

```

po = Login('#hubForm')
po.login_as('testuser', 'testpassword')

```

```

po = Login('#hubForm')
po.remember.value = True
po.login_as('testuser', 'testpassword')

```

```

po = Login('#hubForm')
po.remind.click()

```

```

po = Login('#hubForm')
po.username.value = 'testuser'
po.submit.click()

```

Log in with your Hub account.

Username:

Forgot your Username?

Password:

Forgot your Password?

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