



Advanced UFT 12 for Test Engineers Cookbook

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Using child objects

In the previous recipe, you have learned about using the `Description` object. This recipe will show you how to get a collection of runtime objects and perform checkpoints to verify the values of specific properties. In our example, we will describe how to retrieve images from a web page, and then perform a check operation using a `Checkpoint` object that we would store beforehand in OR.

How to do it...

Proceed with the following steps:

1. We will create a `Description` object and then define the appropriate property-value pairs for identification, as follows:

```
Dim oDesc, i, oImgCollection

Set oDesc=Description.Create
oDesc("html tag").value="IMG|img"
oDesc("html tag").RegularExpression = true
```

2. The following statement will retrieve a collection of images from the Google page:

```
set oImgCollection=Browser("title:=Google").Page("title:=Google").C
```



3. With this collection, we can now implement a loop that uses our `Checkpoint` object to validate the required properties:

```
For i = 0 To oImgCollection.count-1
    oImgCollection(i).Check(Checkpoint("Image"))
Next
```

How it works...

The `Description` object, `oDesc`, was created to cover objects having the HTML tag `img`. The page's `ChildObjects` method uses the `Description` object property's set definition to find a match with actual application (runtime) objects and returns a collection (array) of such objects. The items in this collection can be accessed using a zero-based index, as shown in the `For` loop (in the previous section), and different operations, such as `GetROProperty` and `WaitProperty`, can be applied to them. It is important to stress that these are runtime objects, and hence, trying to apply the methods `GetTOProperty`, `SetTOProperty`, and `GetTOProperties` is useless. This technique is useful when we need to perform a standard set of checks on different objects, as it optimizes our code syntax and allows for re-use of `Checkpoint` objects. Moreover, it accommodates future changes in the application, as the procedure operates on dynamically retrieved objects.



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