# μWeb - Feature #853

# TemplateLoops should work on functions and multiple variables

2012-06-07 18:53 - Elmer de Looff

Status: Closed Start date: 2012-06-07 **Priority:** Normal Due date: Assignee: Elmer de Looff % Done: 100% Category: **TemplateParser Estimated time:** 0.00 hour Target version: µWeb alpha release Spent time: 2.50 hours

# **Description**

TemplateLoops can now only be run on the tag value (including index, but without functions), and they support only a single local variable.

Currently, iterating over the item pairs of a dictionary is done by pushing the dictionary.items() into the template, and then in the for loop, indexing on the single local variable:

# **Associated revisions**

## Revision 240:37e48a133956 - 2012-06-07 19:09 - Elmer de Looff

Added support to TemplateParser for functions parsing in TemplateLoops, as well as tuple unpacking, allowing for clean iteration over dictionaries and nested iterators. This resolves #853.

#### History

#### #1 - 2012-06-07 19:10 - Elmer de Looff

- Status changed from New to Resolved
- % Done changed from 0 to 70

Applied in changeset 37e48a133956.

## #2 - 2012-06-07 19:17 - Elmer de Looff

TemplateParser now supports this mode of iteration, enabling the following practices:

capitals.utp:

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In the PageMaker:

```
import uweb

class PageMaker(uweb.PageMaker):
    def _PostInit(self):
        self.parser.RegisterFunction('items': lambda d: d.items())

def Iterate(self):
    capitals = {'The Netherlands': 'Amsterdam', 'Italy': 'Rome'}
    return self.parser.Parse('capitals.utp', capitals=capitals)
```

Result:

**N.B.:** We do need to provide the items tag function ourselves, as this is not available by default (yet). It's likely that this will be added in the near future, with behavior as shown.

Also, iterating over nested lists:

citylist.utp:

In the PageMaker:

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## Result:

## #3 - 2012-06-07 19:29 - Elmer de Looff

- Assignee changed from Elmer de Looff to Jan Klopper

Jan,

Could you confirm this behavior works for you?

# #4 - 2012-06-07 22:27 - Jan Klopper

- Status changed from Resolved to Closed
- Assignee changed from Jan Klopper to Elmer de Looff
- % Done changed from 70 to 100

Yes, this works as expected!

Thanks:)

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