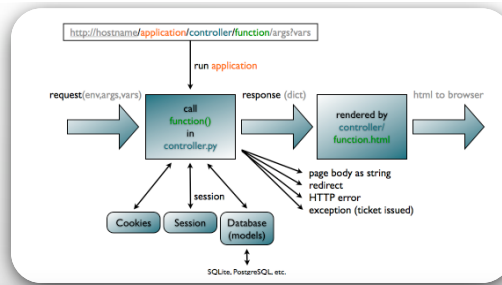


web2py™

Enterprise Web Framework

`http://127.0.0.1:8000/app/default/index`



`app/models/db.py`

```
db=SQLDB('sqlite://data.db',pools=0)

db.define_table('person',
    db.Field('name','string'))

db.person.name.default='Anonymous'
db.person.name.requires=IS_NOT_EMPTY()
```

`app/controllers/default.py`

```
def index():
    form=SQLFORM(db.person)
    if form.accepts(request.vars,session):
        session.flash='record inserted'
        redirect(URL(r=request,f='index'))
    elif form.errors:
        response.flash='there are errors'
    persons=db(db.person.id>0).select()
    return dict(form=form,persons=persons)
```

```
SQLFORM(table,record=None,deletable=False,
    linkto=URL(...),upload=URL(...),
    fields=[...],labels={},col3={},
    submit_button='Submit',
    delete_label='Check to delete:',
    id_label='Record id:',
    showid=True,**attributes)
```

`app/views/default/index.html`

```
{{extend 'layout.html'}}
<h2>Create Person</h2>
{{=form}}
<h2>Persons</h2>
<ul>
    {{for person in persons:}}
        {{=LI(person.name)}}
    {{pass}}
</ul>
```

`type='string'`
`length=64`
`default=None`
`required=False`
`requires=validators`
`ondelete='CASCADE'`
`notnull=False`
`unique=False`
`uploadfield=None`

`string`
`text`
`blob`
`password`
`upload`
`boolean`
`integer`
`double`
`date`
`time`
`datetime`

`request.cookies`
`request.args`
`request.vars`
`request.get_vars`
`request.post_vars`
`request.client`
`request.application`
`request.controller`
`request.function`
`request.folder`
`request.env.host_name`
`request.env.path_info`
`request.env...`

```
db.table.insert(field=val)
query=db.table.id>5
query=query1&query2
query=query1|query2
db(query).count()
db(query).delete()
rows=db(query).select(
    field1, field2, ...,
    left=[db.table.on(query)],
    orderby=field|~field,
    groupby=field|field,
    limitby=(0,10),
    cache=(cache.ram,5000))
```

```
response.render('view.html',dict(...))
response.xmlrpc(response,[functions])
response.stream(filename,chunk_size)
response.cookies['name']='value'
response.headers['name']='value'
response.view='default/index.html'
response.flash='a flashing message'
response.status=200
response.title='this app'
response.subtitle='the best'
response.author='you'
response.keywords='keywords'
response.description='something'
response.menu=[
    ['name',false,URL(...)],
]
```

```
URL(r=request,a='a',c='c',f='f',
    args=[1,2],vars=dict(q=3)) =>
    '/a/c/f/1/2?q=3'
```

```
XML(string,sanitize=False,
    permitted_tags=[...],
    allowed_attributes={...})
```

```
BEAUTIFY(object)
```

```
T.force('en-US')
T('message') =>
    'translated message'
```

```
DIV('a',_class='b') =>
    '<div class="b">a</div>'
```

```
TAG.div('a',_class='b') =>
    '<div class="b">a</div>'
```

```
CODE('print a',language='web2py' or
    'python' or 'html' or 'cpp')
```

HTML BODY SPAN A IMG P CENTER
HEAD TITLE LINK SCRIPT STYLE META
HR BR IFRAME H1 H2 H3 H4 H5 H6
FORM INPUT TEXTAREA LABEL FIELDSET
SELECT OPTION B EM I TT UL OL LI
TABLE THEAD TBODY TFOOT TH TR TD
EMBED OBJECT PRE

```
ON=True
```

```
IS_NOT_EMPTY(error_message='...')
IS_ALPHANUMERIC()
IS_DATE('%Y-%m-%d')
IS_DATETIME('%Y-%m-%d %H:%M:%S')
IS_EMAIL()
IS_EXPR('value>3')
IS_FLOAT_IN_RANGE(0,10)
IS_INT_IN_RANGE(0,10)
IS_IN_SET(['a','b','c'])
IS_LENGTH(32)
IS_LOWER()
IS_UPPER()
IS_MATCH('\w{5}')
```

`IS_TIME()`
`IS_URL()`
`IS_IN_DB(db,'table.field','%(field)s')`
`IS_NOT_IN_DB(db,'table.field')`
`IS_NULL_OR validator`
`IS_LIST_OF validator`
`CLEANUP()`
`CRYPT()`