



http://.../app/default/index

```
@auth.requires_login()
@auth.requires_membership(role='group')
@auth.requires_permission('read','table',
                           'record_id')
@sevice.xml rss csv json xmlrpc
amfrpc('domain')
```

```
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,**attrs)
```

```
app/models/db.py
db=DAL('sqlite://data.db',pool_size=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)
```

```
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
compute and widget
```

```
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),
    distinct=False,
    cache=(cache.ram,5000))
```

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

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
```

```
IS_NOT_EMPTY(error_message='...')
IS_ALPHANUMERIC()
IS_DATE('%Y-%m-%d')
IS_DATETIME('%Y-%m-%d %H:%M:%S')
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_EMAIL()
IS_IN_DB(db,'table.field','%(field)s')
IS_NOT_IN_DB(db,'table.field')
IS_EMPTY_OR(validator)
IS_LIST_OF(validator)
CLEANUP(),
CRYPT()
```

```
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.files.append('http://.../file.css')
response.flash='a flashing message'
response.status=200
response.title='this app'
response.subtitle='the best'
response.meta.author='you'
response.meta.keywords='keywords'
response.meta.description='something'
response.menu=[ ['name',False,URL(...)],[]],
                ]
```

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