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A library to access Tryton's models like a client.
EXAMPLE OF USAGE

```python
>>> from proteus import config, Model, Wizard, Report
```

### 1.1 Configuration

Configuration to connect to a sqlite memory database using trytond as module.

```python
>>> config = config.set_trytond('sqlite:///:memory:)
```

There is also the `config.set_xmlrpc` method which can be used to connect using a URL, and the `config.set_xmlrpc_session` method (when used as a context manager) which connects for a session.

### 1.2 Activating a module

Find the module, call the activate button and run the upgrade wizard.

```python
>>> Module = Model.get('ir.module')
>>> party_module, = Module.find([{'name', '=', 'party']})
>>> party_module.click('activate')
>>> Wizard('ir.module.activate_upgrade').execute('upgrade')
```

### 1.3 Creating a party

First instanciate a new Party:

```python
>>> Party = Model.get('party.party')
>>> party = Party()
>>> party.id < 0
True
```

Fill the fields:

```python
>>> party.name = 'ham'
```

Save the instance into the server:
>>> party.save()
>>> party.name
'ham'
>>> party.id > 0
True

1.4 Setting the language of the party

The language on party is a Many2One relation field. So it requires to get a Model instance as value.

```python
>>> Lang = Model.get('ir.lang')
>>> en, = Lang.find([('code', '=', 'en')])
>>> party.lang = en
>>> party.save()
>>> party.lang.code
'en'
```

1.5 Creating an address for the party

Addresses are store on party with a One2Many field. So the new address just needs to be appended to the list addresses.

```python
>>> address = party.addresses.new(postal_code='42')
>>> party.save()
>>> party.addresses
[proteus.Model.get('party.address')(...)]
```

1.6 Adding category to the party

Categories are linked to party with a Many2Many field.

So first create a category

```python
>>> Category = Model.get('party.category')
>>> category = Category()
>>> category.name = 'spam'
>>> category.save()
```

Append it to categories of the party

```python
>>> party.categories.append(category)
>>> party.save()
>>> party.categories
[proteus.Model.get('party.category')(...)]
```
1.7 Print party label

There is a label report on Party.

```python
>>> label = Report('party.label')
```

The report is executed with a list of records and some extra data.

```python
>>> type_, data, print_, name = label.execute([party], {})
```

1.8 Sorting addresses and register order

Addresses are ordered by sequence which means they can be stored following a specific order. The \texttt{set\_sequence} method stores the current order.

```python
>>> address = party.addresses.new(postal_code='69')
>>> party.save()
>>> address = party.addresses.new(postal_code='23')
>>> party.save()
```

Now changing the order.

```python
>>> reversed_addresses = list(reversed(party.addresses))
>>> while party.addresses:
...    _ = party.addresses.pop()
>>> party.addresses.extend(reversed_addresses)
>>> party.addresses.set_sequence()
>>> party.save()
```

1.9 Setting context

Make French translatable:

```python
>>> Language = Model.get('ir.lang')
>>> french, = Language.find([('code', '=', 'fr')])
>>> french.translatable = True
>>> french.save()
```

Create a category in English:

```python
>>> Category = Model.get('party.category')
>>> with config.set_context(language='en'): ...
...    category = Category(name="Category")
...    category.save()
```

Translate in French:

1.7. Print party label
>>> with config.set_context(language='fr'):
...     category_fr = Category(category.id)
...     category_fr.name = "Categorie"
...     category_fr.save()

Read in English:

```python
>>> category.reload()
>>> category.name
'Category'
```

Read in French:

```python
>>> category_fr.reload()
>>> category_fr.name
'Categorie'
```