# Contents

1 Example of usage

1.1 Configuration .......................................................... 3
1.2 Activating a module .................................................. 3
1.3 Creating a party ......................................................... 3
1.4 Setting the language of the party ..................................... 4
1.5 Creating an address for the party ...................................... 4
1.6 Adding category to the party ............................................ 4
1.7 Print party label .......................................................... 5
1.8 Sorting addresses and register order .................................. 5
A library to access Tryton’s models like a client.
Example of usage

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

1.1 Configuration

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

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

1.2 Activating a module

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

>>> 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:

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

Fill the fields:
>>> party.name = 'ham'

Save the instance into the server:

```python
>>> 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 #doctest: +ELLIPSIS
[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 #doctest: +ELLIPSIS
[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 `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()
```

```python
>>> party.addresses == reversed_addresses
```

True