Unittest tutorial

practical exercise

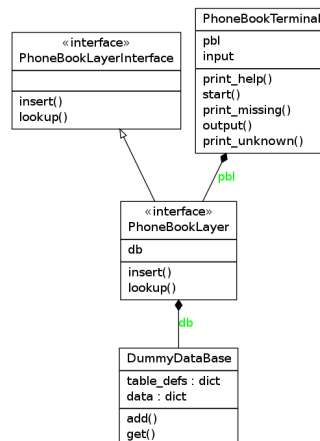|	
Date:	12-04-2014
Version:	0.1
Authors:	Hrobjartur Thorsteinsson
	(thorsteinssonh@gmail.com)

Assignment

Your assignment is to implement a missing unittest for the **phonebook** package.

This tutorial also shows you how you can use some common python tools to help you evaluate and view python code projects.

phonebook structure

```
$ pyreverse -o png phonebook/*.py
```


Install following software tools

The tools

```
$ sudo apt-get install python-mock
$ sudo apt-get install python-nose
```

Optionally, if you want to compile UML diagrams or documentation,

```
$ sudo apt-get install graphviz
$ sudo apt-get install pylint
$ sudo apt-get install python-coverage
$ sudo apt-get install rst2pdf
```

rst2pdf depends on docutils, which should therefore also be installed. With docutils you get more tools, such as **rst2html**.

Using nosetests and coverage

The **nose** package includes a commandline tool **nosetests**. This is perhaps the most popular "testrunner" in python. This test runner automatically looks up classes that derive from unittest.TestCase, sets some environment conditions and executes the tests.

Run,

```
$ nosetests -v tests/
```