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| cs408B Computer science project |
| Deployment Description for DOHN |
| Team I |
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| **Ver. 1.0** |

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| This document is for the computer science project class B, Team 1. |

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1. How to set up the system

# 1.1 Required software

* Python 2.5.4
* Apache 2.2.14
* MySQL 5.1.39
* Mod\_python 3.3.1 for python 2.5 and apache 2.2
* MySQLdb 1.2.2 for python 2.5
* Simplejson 2.1.1 for python 2.5
* Xlrd 0.7.1

# 1.2 How to set up

1. Install required softwares

2. Create “C:\dohn.txt” This file should have absolute path where the project is running on. For example,

*C:/APM/htdocs/test*

3. Check Apache setting. It needs some configuration in 'httpd.conf'. It should contain lines similar to following.

*LoadModule python\_module modules/mod\_python.so*

*<Directory "C:/APM/htdocs/test">*

*AddHandler python-program .py .cgi*

*PythonHandler mod\_python.publisher*

*PythonDebug On </Directory>*

4. Database Check MySQL DB. There should be database named 'dohn' and its tables. If you don't have them, just import SQL file, ‘dohn.sql’

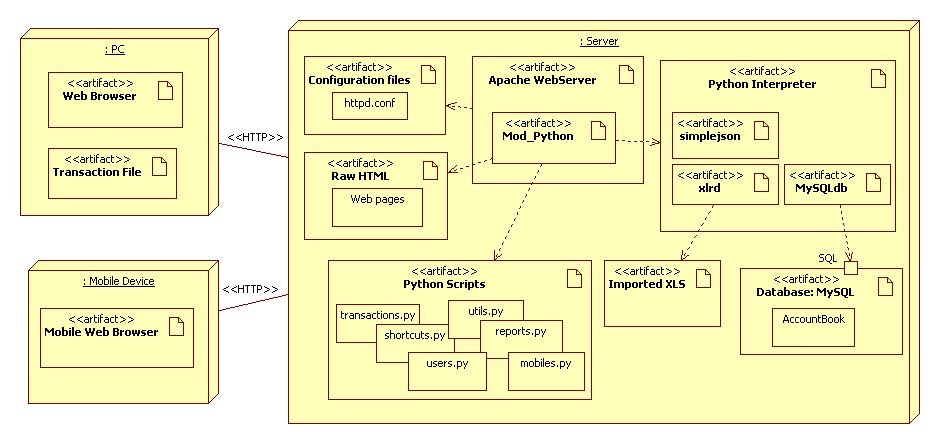
5. Copy codes and ‘html’ folder including html files into the absolute path in 2nd step.

(cf. If the path is like above, ‘test’ folder in ‘htdocs’ folder of apache web server, the URL will be <http://localhost/test/dohn.py>)

6. Access webpage. (ex. http://localhost/ABSOLUTE\_PATH\_NAME/dohn.py)

2. How the system works

# 2.1 Deployment diagram



# 2.2 How the system works

1. How it generates web pages.

Mod\_python is embedded python interpreter for Apache web server. Whenever users request web page with certain URL, mod\_python accepts the request. It gets raw HTML file and generates data with corresponding python scripts. (The source of data is MySQL database connected by MySQLdb library.) Those data and raw HTML file are mixed by python and the new HTML is sent to user’s browser by Apache web server.

2. How it processes user’s excel file(xls)

When user uploads his/her transaction file in a format of xls, mod\_python stores it in server temporarily. After that, it reads the xls file by xlrd library with simplejson library.

3. How it stores data into the database

When user request data to add, corresponding python scripts works with mod\_python. By MySQLdb, python interpreter is connected with MySQL database. Then, the requested data is stored in database. After all, the connection closes.