iBudget System Guide

This system guide will cover the basic steps on how to setup the development environment as well as the various development tools that we used to development the application.

Development Tools:

# For IDE

* **PHP Eclipse**: what I prefer using: <http://www.eclipse.org/projects/project.php?id=tools.pdt>
* **TextMate**: Plain text editor, with color styling, and great file management.

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# For MySQL

* **DBVisualizer**: Very intuitive and robust MySQL editor / client : <http://www.dbvis.com/>
* **Navicat**: Very similar to DBVisualizer, but more functionality and cost more:<http://www.navicat.com/en/products/navicat_mysql/mysql_overview.html>
* **MySQL Workbench (FREE)**: <http://www.mysql.com/downloads/workbench/>
* **SQLEditor (MAC ONLY)**: This is a great tool to design your database schema. I use it exclusive. Have not found anything as good.
* **DBDesigner 4 (Open Source)**: Simple to SQLEditor, but I have not use it yet. <http://fabforce.net/dbdesigner4/>
* **DDT 1.5 (Windows Only)**: Another Database design tool, I used it, but no where near the functionality of SQLEditor, but it is FREE:<http://gnuwin.epfl.ch/apps/DDT/en/>

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# For SVN, Subversion

* **TortoiseSVN**: Free, and very useful, but it is a windows only tool
* **SVN Command Line**: for those who do not like GUI interface.

# MISC

* **Beyond Compare**. This is a great file comparison tool when used in conjunction of TortoiseSVN. This is great when you have conflicts in the code and need to see the difference. <http://www.scootersoftware.com/>

How to set up your environment

Information for Windows, MAC, and Linux

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# Windows

There are variety of ways to set up your environment in Windows, One way is use an all in one package such as WAMP, or if you are an experience user, set up each individual component (Apache, MySQL, and PHP), lastly is to you an online service (don't recommend this).

WAMP (Windows, Apache, MySQL, PHP): This is an AIO package

* <http://www.wampserver.com/en/>
* As basic as follow the installation dialog

Apache, MySQL, PHP, individual install

* Install MySQL First, you can download it here: <http://www.mysql.com/downloads/installer/>
* Follow the installation dialog, and when it ask you what type of database, select transactional (INNODB)
* Installing Apache next, get your package here: <http://httpd.apache.org/download.cgi>, I recommend version 2.2
* Installing is basic, follow the direction.
* Configuring Apache is the more difficult part.
* This link should give you all the details on to configure all three things: <http://www.bicubica.com/apache-php-mysql/index.php>
* PHP is simplely downloading it and unzipping it, and copy php.ini into your windows directory, copy two dll to the Apache directory and you are done.

Finally you have hosted environment. Put these involve paying for the service and really not necessary for what we need.

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# MAC

MAMP (Mac, Apache, MySQL, PHP): This is an AIO package, and its what I use on my Mac.

* You can get it here: <http://www.mamp.info/en/index.html>
* Installation is simple as dragging it and dropping it into you applications.
* Configuring it is as simple as answer a few questions on the GUI screen.

If you prefer to install each individual component, you can find more information here. But it is almost identical to the Windows installation instructions.

* This seems to be the best instructions I found: <http://www.klauskomenda.com/archives/2008/10/07/installing-apache-mysql-and-php-on-leopard/>

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# Linux

XAMPP (LinuX, Apache, MySQL, PHP, Perl)

* Find the package here: <http://www.apachefriends.org/en/xampp.html>

Because of so many different linux distro, I am going to speak in very general terms. In my cases, I would recommend you installing from your package manager because they do behind the scene configuration which make configuring things that much easier.

* Installing MySQL, Download it from the source and install it, or use your package manager to install it.
* Apache Installation. You can either download from the source, [http://httpd.apache.org](http://httpd.apache.org/), or use your package manager to install this.
* PHP can be download from php.net or use package manager.

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Installation

1. Setup of MySQL database.

* Create a database and user name.
* Above the Application directory, you'll find 2 directories, DDT, and DDL. DDT contain our Data Definition, which sets up our schema. Please under DDT/schema.sql to setup the database structure that would house the application's data. Under DDL, you'll find a few .sql files. These ares are setting up the default supported mapping such as Bank Of America, or Chase, or Capital One. Please run all three SQL.

1. Setting up of Apache.

* In httpd.conf or apache.conf, Please add the following:

Alias /iBudget /[directory]/Application/www

<Directory " /[directory]/Application/www">

    Options Indexes FollowSymLinks Multiviews

    Order   allow,deny

    allow from all

</Directory>

This will create an alias for your, so you can access ibudget from going to <http://localhost/iBudget>

1. Finally configuration the application to run, please open up /[directory]/Application/includes/config.inc

|  |
| --- |
| **Database Settings**  $DBHOST = "localhost"; |
| $DBNAME = "complexf\_ibudget"; |
| $DBUSER = "complexf\_ibudget"; |
| $DBPASSWD = "mybudget1";  **Application Location**  $INSTALL\_DIR = "/[Directory]/Application";  **URL Location**  $BASE\_URL = "/iBudget"; |