# Memorandum

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## Test with Instructments

### Unsoloved Memory leaks

|  |  |  |  |
| --- | --- | --- | --- |
| **Priority** | **Class** | **Description** | **Status** |
| Low | NSXMLParser | Memory leak on:  [[NSXMLParser alloc] initWithContentsOfURL:url];  many other people report the same problem in different forum. So guess this is a leak from the SDK. | Pending |
| Low | UIButton | Memory leak on:  [[UIButton buttonType:] initWithFrame:]  Turns out the call should be separated into:  [UIButton buttonType]  button.frame = xxx | Solved |
| Low | NSURLDownload | Memory leak when downloading a file. It doesn’t particularly point to somewhere. It seems the underlying NSURLConnection may have introduced some leak. | Pending |

## Server setup

### Installation software

|  |  |  |
| --- | --- | --- |
| **Software** | **Ver** | **Installation Notes** |
| Apache | 2.2.10 | After installation, change configuration file   * DocumentRoot xxx * <Directory xxx>   Test with http://localhost/ |
| PHP | 5.2.6 | Two package to install: installer, and zip package   * Change php.ini-recommended to php.ini, and * Change “doc\_root” * Change “extension\_dir” * Uncomment “extension=php\_mysql.dll”   Test with a php file, say info.php in place.  <?php phpinfo(); ?> |
| MySQL | 5.0.67 | After installation:   * Copy libMySQL.dll into php directory. |

### Import Database

Some cities have either special format of gtfs files, or some special arrangement of the data. The following is a summary.

|  |  |
| --- | --- |
| **City** | **Installation Notes** |
| Portland  Milwaukee | * Its stops.txt file has extra columns of “position” and “direction”. * Doesn’t have calendar file. * For queries to be successful, I used to create a fake record in calendar table, but after Ver1.2, querying scheme has been improved, and such manual change is not needed any more. |
| Denver | * Its calendar.txt and calendar\_date have redundant information. * For queries to be successful, I used to delete records in calendar table, and create a fake record in the table. But after Ver1.2, querying scheme has been improved, and such manual change is not needed any more. |
| Some cities (Special cases) | * There are quotation marks embracing the values. * There are cities missing one field or another. * There are some leading or ending whitespace. * For XML, & signs need to be replaced with &amp; , but not for sqlite3 databases. * A bus time may go beyond 23:59:59, for example, it can be 27:00:00. |
| Toronto | * Route short name of subway should be change to YUS for better display. |
| Honolulu | * Stops.txt need manual fix to avoid duplicated records. |
| Caltrain | * Stops.txt need manual fix to avoid whitespace in stop\_id |
| Metrolink | * Routes.txt/trips.txt need manual fix to avoid whitespace in route\_id |
| OC  Humboldt  Perth  San Francisco | * These cities do not have valid direction\_id information, either there is no such a field in the trips.txt file, or the field is kept blank. |

### Add a New City

Follow the following steps.

|  |  |
| --- | --- |
| **Steps** | **Notes** |
| Create database  bus\_<city> | * Directory: transit\_data/   + Create <city> directory, and copy GTFS data.   + create import\_<city>.bat by copying and modifying |
| Add web service | * Directory: public\_html/ver1.1/<city>   + Copy info.php/arrivals.php/schedules.php   + Modify info.php. (timeZone/dbName/cityName/agencyName) |
| Test XML | * FireFox   + Check some arrivals/schedules * Make sure calendar table do or do not need adjustment |
| Create mobile datbase  <city>.sqlite | * Directory: transit\_data/~mobile   + add<city>.bat.   + update supportedcities.lst   + addgtfs\_info.bat |
| Prepare for update | * Directory: transit\_data/~code   + Modify supportedcities.lst * Directory: transit\_data/   + update\_gtfs\_info.bat * Directory: public\_html/ver1.1/updates   + Copy <city>.sqlite |
| Prepare for offline browsing. | * Directory: transit\_data/~mobile   + cache<city>.bat |