

Add Database Tables for Your Apps

Requires: phpFox 4.5+

Purpose of this document is provide you the guideline how to add database tables for your apps. This new approach is in process to apply for all core apps.

In this tutorial, we will use the source of the app **To Do List** as an example:

- To adding new table, you need define a class for it:

```
<?php

namespace Apps\ToDoList\Installation\Database;

use Core\App\Install\Database\Table;

class TodoTaskTable extends Table
{
    /**
     * Set name of this table, can't missing
     */
    protected function setTableName()
    {
        $this->_table_name = 'todolist_task';
    }

    /**
     * Set all fields of table
     */
    protected function setFieldParams()
    {
        $this->_aFieldParams = [
            'task_id' => [
                'primary_key' => true,
                'auto_increment' => true,
                'type' => 'int',
                'type_value' => 10,
                'other' => 'UNSIGNED NOT NULL'
            ],
            'user_id' => [
                'type' => 'int',
                'type_value' => 10,
                'other' => 'UNSIGNED NOT NULL'
            ],
            'name' => [
                'type' => 'varchar',
                'type_value' => 255,
                'other' => 'NOT NULL DEFAULT \'\''
            ],
            'description' => [
                'type' => 'text',
                'other' => 'NOT NULL DEFAULT \'\''
            ],
            'task_status' => [
                'type' => 'tinyint',
                'type_value' => 3,
                'other' => 'UNSIGNED NOT NULL DEFAULT 0'
            ],
            'is_sponsor' => [
                'type' => 'tinyint',
                'type_value' => 1,
                'other' => 'UNSIGNED NOT NULL DEFAULT 0'
            ],
            'time_stamp' => [
                'type' => 'int',
                'type_value' => 10,
                'other' => 'UNSIGNED NOT NULL'
            ]
        ];
    }
}
```

```

],
'time_update' => [
    'type' => 'int',
    'type_value' => 10,
    'other' => 'UNSIGNED NOT NULL DEFAULT 0'
],
'privacy' => [
    'type' => 'tinyint',
    'type_value' => 1,
    'other' => 'NOT NULL DEFAULT 0'
],
'total_comment' => [
    'type' => 'int',
    'type_value' => 10,
    'other' => 'UNSIGNED NOT NULL DEFAULT 0'
],
'total_view' => [
    'type' => 'int',
    'type_value' => 10,
    'other' => 'UNSIGNED NOT NULL DEFAULT 0'
],
'total_like' => [
    'type' => 'int',
    'type_value' => 10,
    'other' => 'UNSIGNED NOT NULL DEFAULT 0'
],
'image_path' => [
    'type' => 'varchar',
    'type_value' => '75',
    'other' => 'DEFAULT NULL',
],
'server_id' => [
    'type' => 'tinyint',
    'type_value' => '1',
    'other' => 'NOT NULL DEFAULT \'0\'',
],
];
}
/**
 * Set keys of table
 */
protected function setKeys()
{
    $this->_key = [
        'task_id' => ['task_id', 'task_status'],
        'user_id' => ['user_id']
    ];
}
}

```

Final, in file **Install.php** (configuration file of your app), add the table to your app database configuration:

```

protected function setOthers()
{
    ...
    // list all table class
    $this->database = ['TodoTaskTable'];
    ...
}

```

Congratulation! You have just added a table for your app successfully! The table will be created/alterd automatically when admin install/upgrade the app. The Core will take care it for you.