FuelPHP Cheatsheet

A quick reference guide for FuelPHP, a simple, flexible, community driven PHP 5.3+ framework, based on best practices and loaded with powerful features



Core Concepts & Configuration

Key Concepts

HMVC (Hierarchical Model-View-Controller): FuelPHP extends the traditional MVC pattern to HMVC, promoting modularity and reusability of code.

ORM (Object-Relational Mapper): Provides an ActiveRecord implementation for easy database interaction.

Security: Built-in CSRF protection, input filtering, and output encoding to prevent common web vulnerabilities.

Bundles: Reusable packages of code that can be easily integrated into FuelPHP applications.

Modules: Self-contained applications within a FuelPHP project, enabling code organization and separation of concerns.

Configuration Files

config	Main application configuration file. Located in fuel/app/config/ .
routes	Defines URL routes. Located in fuel/app/config/ .
db.ph	Database connection settings. Located in fuel/app/config/ .
autolo ad.php	Specifies classes and packages to automatically load. Located in fuel/app/config/.

Environment Configuration

FuelPHP supports environment-specific configurations (development, production, testing).

Configuration files are loaded in the following order:

- fuel/app/config/config.php
- fuel/app/config/{environment}/config.php (overrides defaults)

Controllers, Models & Views

Controllers

Controllers handle user requests and interact with models to retrieve or modify data.

They then pass data to views for rendering.

Models

Models represent data and provide methods for interacting with the database.

FuelPHP uses an ActiveRecord ORM.

```
Example:
```

```
class Model_User extends Orm\Model
{
    protected static $_properties = array(
        'id',
        'username',
        'password',
        'email',
    );
}
```

Views

Views are responsible for rendering data provided by controllers into HTML or other formats.

Example (fuel/app/views/users/index.php):

```
<h1>Users</h1>

<!php foreach ($users as $user): ?>
        <?php echo $user->username; ?>
<!php endforeach; ?>
```

Use View::forge() to create a view instance in your controller.

Routing & URI Handling

Basic Routing

}

Routes define how URLs are mapped to controllers and actions. Defined in [fuel/app/config/routes.php].

```
Example:
    return array(
        '_root_' => 'welcome/index', // The
    default route
        '_404_' => 'welcome/404', // The main
404 route
        'hello/(:any)' => array('welcome/hello',
        'name' => '$1'),
);
```

Named Parameters

You can use named parameters in your routes. Example:

'users/:id' => 'users/view/\$id'

URI Class

URI::base()	Returns the base URL of the application.
<pre>URI::current()</pre>	Returns the current URI.
<pre>URI::segment(\$n)</pre>	Returns the nth segment of the URI.

ORM & Database

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Relationships

```
Query Builder
```

```
FuelPHP's ORM simplifies database interactions.

Remember to configure your database settings in fuel/app/config/db.php.

Example (Retrieving Data):
```

```
Example (Retrieving Data):
    $user = Model_User::find(1);
    echo $user->username;

Example (Creating Data):
```

```
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```

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FuelPHP supports various relationship types (one-to-one, one-to-many, many-to-many).
```

Example (One-to-Many in Model_User):

foreach (\$user->posts as \$post) {

echo \$post->title;

```
protected static $_has_many = array('posts' =>
array(
    'model_to' => 'Model_Post',
    'key_from' => 'id',
    'key_to' => 'user_id',
));

Now you can access the user's posts:
$user = Model_User::find(1);
```

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