

**SESSION
03**

WRITING A SIMPLE APPLICATION



OBJECTIVES

- Learn to create simple Web application using Laravel
- Explain how to use routes to serve different Web pages
- Understand how views can enhance presentation of an application
- Use the Blade Templating Engine
- Learn to Add Master Template and Nested Views



PLANNING THE APPLICATION

Configure and run on the domain name
`simpleApp.local`.



Serve a static home page
(<http://simpleApp.local/>)

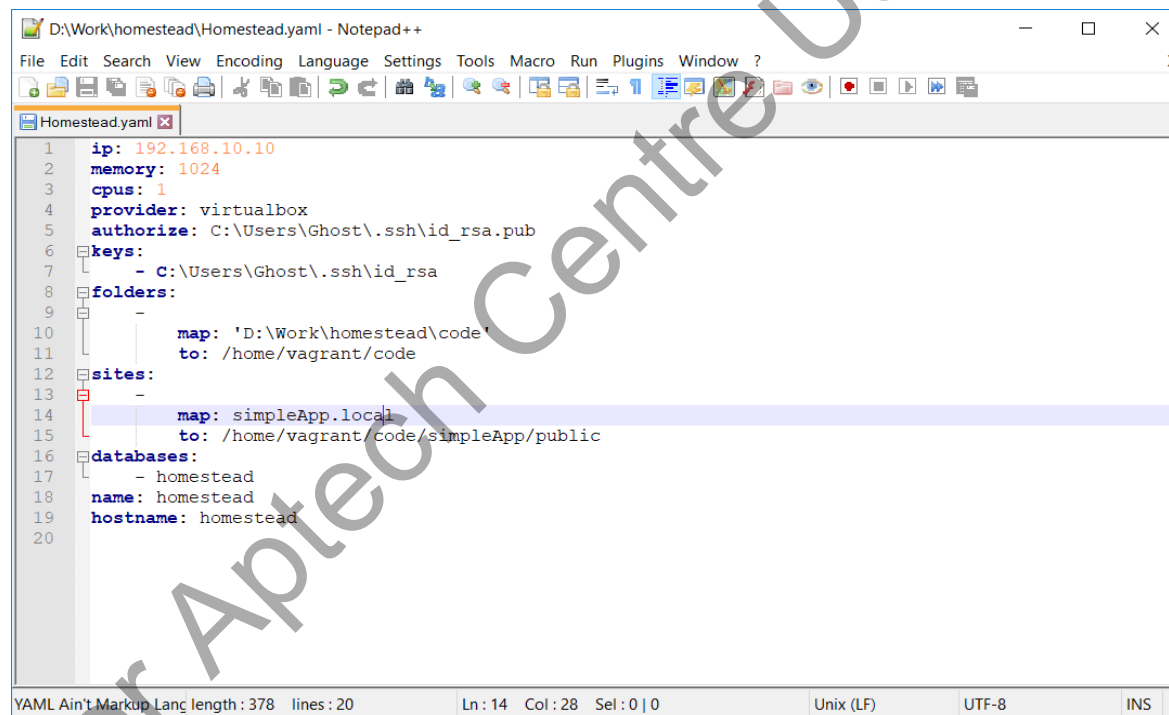


Serve a dynamic test page
(<http://simpleApp.local/test>)
- that will fetch input from the MVC URI
structure and reflect the value



CONFIGURING THE ENVIRONMENT (1-2)

Configuring homestead:



```
1 ip: 192.168.10.10
2 memory: 1024
3 cpus: 1
4 provider: virtualbox
5 authorize: C:\Users\Ghost\.ssh\id_rsa.pub
6 keys:
7   - C:\Users\Ghost\.ssh\id_rsa
8 folders:
9   -
10     map: 'D:\Work\homestead\code'
11     to: /home/vagrant/code
12 sites:
13   -
14     map: simpleApp.local
15     to: /home/vagrant/code/simpleApp/public
16 databases:
17   - homestead
18     name: homestead
19     hostname: homestead
20
```

CONFIGURING THE ENVIRONMENT (2-2)

Map the simpleApp.local domain:

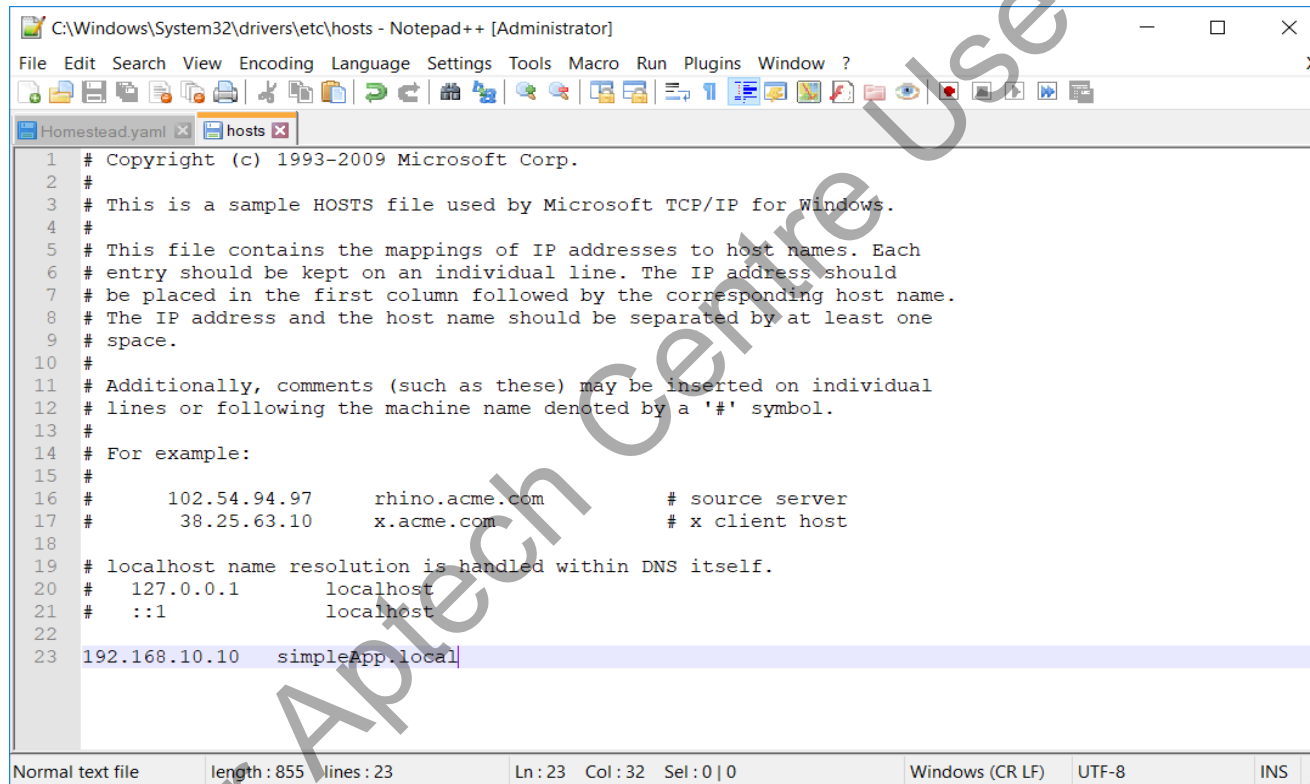
```
sites:
-
  map: simpleApp.local
  to: /home/vagrant/code/simpleApp/public
```

Command:

```
vagrant reload --provision
```



CONFIGURING THE HOSTS FILE



```
1 # Copyright (c) 1993-2009 Microsoft Corp.
2 #
3 # This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
4 #
5 # This file contains the mappings of IP addresses to host names. Each
6 # entry should be kept on an individual line. The IP address should
7 # be placed in the first column followed by the corresponding host name.
8 # The IP address and the host name should be separated by at least one
9 # space.
10 #
11 # Additionally, comments (such as these) may be inserted on individual
12 # lines or following the machine name denoted by a '#' symbol.
13 #
14 # For example:
15 #
16 #       102.54.94.97       rhino.acme.com       # source server
17 #       38.25.63.10       x.acme.com           # x client host
18
19 # localhost name resolution is handled within DNS itself.
20 #   127.0.0.1       localhost
21 #   ::1             localhost
22
23 192.168.10.10  simpleApp.local
```

CREATING LARAVEL APPLICATION (1-3)

Syntax to create a new Laravel project:

```
laravel new [name]
```

```
vagrant@homestead: ~/code
homestead> vagrant ssh
vagrant@127.0.0.1's password:
Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-45-generic x86_64)

Homestead

* Homestead 8.0.0 released! PHP 7.3 is now the default!
* Settler v7.0.0 released! Make sure you update
* Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0

* Canonical Livepatch is available for installation.
  - Reduce system reboots and improve kernel security. Activate at:
    https://ubuntu.com/livepatch

0 packages can be updated.
0 updates are security updates.

Last login: Mon Mar 11 12:12:40 2019 from 10.0.2.2
vagrant@homestead:~$ cd code
vagrant@homestead:~/code$ laravel new simpleApp
```



CREATING LARAVEL APPLICATION (2-3)

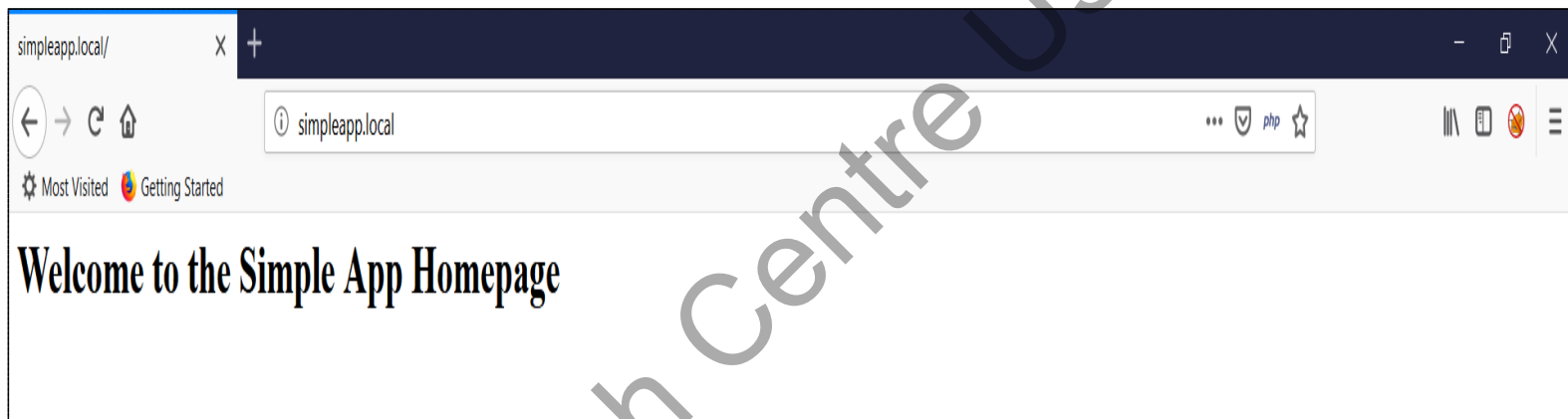
```
vagrant@homestead: ~/code/simpleApp
vagrant@homestead:~/code$ cd simpleApp/
vagrant@homestead:~/code/simpleApp$ php artisan app:name simpleApp
Application namespace set!
Compiled views cleared!Compiled views cleared!
Application cache cleared!
Route cache cleared!
Configuration cache cleared!
Compiled services and packages files removed!
Caches cleared successfully!
vagrant@homestead:~/code/simpleApp$
```



CREATING LARAVEL APPLICATION (3-3)



WRITING A ROUTE



CREATING A DYNAMIC TEST PAGE

Code Snippet 1:

```
Route::get('test', function () {  
    $content = "To access a specific test, visit  
http://simpleApp.local/test#id, replace #id with the test  
id. For example http://simpleApp.local/test1"  
    return $content;  
})
```

Code Snippet 2:

```
Route::get('test{id}', function ($id) {  
    return "You are trying to access Test #{$id}";  
});
```



USING VIEWS (1-2)

Views

- Provides the modularity required for Web application development.
- Located at `resources\views`
- Separates the controller/application logic from the presentation logic.



USING VIEWS (2-2)

Code Snippet 1:

```
<html>
  <body>
    <h1>Hello. Welcome to your own Simple Web
    Application</h1>
  </body>
</html>
```

Code Snippet 2:

```
Route::get('/',function () {
    return view('home');
});
```



USING BLADE TEMPLATING ENGINE

Lightweight template language

Provides multiple short codes

Blade template engine reduces the number of keystrokes

Increases the readability of templates

Supports most PHP constructs to create loops and conditions

Allows templates to be nested and extended

No master layout in Blade



SUMMARY

- By default, all resources required to run a Web application are installed in the Homestead virtual environment.
- Laravel leverages the MVC design pattern to provide an interactive interface to the user.
- The hosts file in Windows is the first file that is referenced when the operating system tries to resolve a domain name.
- Routes serve different Web pages and Views enhance their presentation.
- Blade is a lightweight template language that provides multiple short codes.
- Master Template and Nested Views can be configured in the master.blade.php file.
- Laravel follows the 'Convention is better than Configuration' method.

