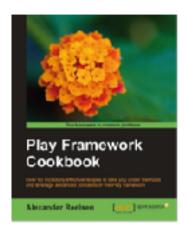
Play Framework V1.x References



Book

https://www.packtpub.com/web-development/play-framework-cookbook

1st Edition only, 2ed edition is for a different framework - Play 2



Book

https://www.packtpub.com/web-development/play-framework-essentials



Video

https://www.packtpub.com/web-development/play-framework-web-application-development-video

Play Framework Cheat Sheet (reproduced on next pages)

https://www.playframework.com/documentation/1.2.7/cheatsheet/templates

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Templates

Nodel Command Line Texts Controllers Multi Environment Templates



errors.

The validation errors raised in the controller

flash

Hash scope

The negotiated language

mestages

The map of localised messages

The output stream writer

perams

Current parameters

Main framework class

recures?

The current HTTF request

session

The session scope

\$ client.rame |

Evaluates and outputs a variable

\$ client?name }

Displays client same only if client not null

@ Controller.action() }

Calculates Uff. relative path to action

@ Controlleraction(.secure())

Calculates URL absolute path to action

@'path/to/static_content'

<imc src="@f"/public,images/jpcf.png]" dass="center"/>

data') ... #(/form)

#618n /)

of this is a comment]-

What else to say?

Sil put.print("HelloWorld") 1%

Greow scripts for UI logic

#{ my.custom.tag /} A typical custom (ac - page context not shared

#(extends 'paga.html'/)

#(dol.ayout /)

Master template decorators

#iget "litle"]Used if title not set#[/get]

#|set title/Home Page'}

Shared variables between page and muster templates

#linclude 'tree.html'/)

Includes fragment - page context is shared

#(script lit/myscript', src/script.js', charset/utf-8'/) # atylesheet id mair', media print, arc print cm' /

Imports script & styles in the page

Calculates URL relative HFTPS path to action

#[a ((Application.logout) |Disconneci#['a]

Handy tags to create anchors and forms

Exports localized messages in Javascript

#8fErrors! [rroris] found! #[/ifErrors]

#@fError 'user.name'l #lersor 'user.name' /\ #!/ifError\

#[verbatim]\$['&]#/verbatim[

Disables HTML escaping

Checks for validation errors

Checks a given error

(SIG(Controller action())

#fform (IClient.create() , id: form' enclype: multipart/form-

&I message.key }

Message are maintained in conf/messages, supports i18

F[If cond]_#[/if]F[elself cond]_#[/elself]F[else]_#[/else]

F[i'nct cond]_#[/ifno:]

Conditional constructs

#[[ist items:0.10, as:'i]\$|i]#[/list]

F[18t items: a...'Z, as:T[5[1] \$[1.isLast 7':']']#[/184]

#(list users)\$(_)#(/list)

Loop constructs

#[list items:task, as: 'task'] \$[task]#[/list]

F[cise]No tasks on the list#[/cise]

Tip: Esecan be used along with list

#{cache 'key', for: 15min}...#{/cache}

Caches content for 15 minutes

Template - Custom Taps

@Past lags.Namespace("domain")

public class RecapichaTay extends FastTays (

public static void _recaptchatMap args, Closure body, PrintWriter out, ExecutableTemplate template, int fromLine) [....

\$(['red', 'green', 'blue'].join('/'))

red/green/blue

\$((["red", "green", "blue"] as \$tring().add('pink).jein(" ') }.

red green blue pink \$ ([red', green', blue'] as String[]).contains(green') |

\$\(['rec', 'gr', 'blue'] as String[]).remove('gr').jbin(' '\)

red blue \$ ['rec', 'green', 'blue'].last() }

\$ | new Date(new Date().getTime() = 10000000).since() }

16 minutes app \$ new Date(1275910970000),format('dd MMMH yyyy

historress()) 07 June 2010 01:42:50

3(1275910979000.asdate('uld MNMM yyyy hhummuso'))

07 June 2010 01:42:50

/app/view/tags/domain/mytagtag

#[errors] <fi>\$lerror[</fi> #[/errors] Iterates over the current validation errors

Custom tag can be called as (#domain.mytag/)

\$6725016L.formatSize()

\$8.42.formatCurrency('BUR').raw() |

Seuro; 42.30

\$(42.page(10))

journ\${['onn', 'c+', 'f2'].pluralize('af', 'suz') } journaux

\$("lorum ipsum dolor".capAli())

Lorum Ipsum Dolor

\$("forum (psum dofor".tameK.ase))

LorumipsumColor \$("lorum ipsum dolor".capFirst() }

Lorun losum dolor \${"lorum ipsum dolor".cut('um') }

lor igs doler

\$("The chlinkstage/blinks is avil".escape0.rav()) The <:blink>tas<:/blink> is evil

\${ 'ore\ntwo'.nQbr0} one
two

\${ '<' } \${ '<'.rawO |

\$(" (") ".escape(avaScript0.raw0.)

filt < 0.202

\${ "".yeano('yea', 'no') }

\$['not empty'.yrano(yes', 'no')]

S("Stephane Épardauc".noAccents())

Suphane Epardaud

\$["The Play! framework's manual".slugify() }

the-play-framework-s-manual

\${ "x".pud(4).saw() } x

Back to Table of contents Controllers Cet help with Google: Back Google Custom Search Mode Commandure Tests Controllers Multi-Environment Templates public static voic show(list ic) public static void create(String comment, File attachment) Cot by Controlleraction - Smart binding public static voic show(set id) Send File as multipart iform-data encoded POST request. Controller/link?1=32&n=patrick Controller/get7da/e-02-18-3972 ?client.name-paul&client.email-p@example.com public static void link(int i, String n) public static voic gct@As("MM-dd-yyy/") Date date) public static void create(Client client) public static void lint(integer i, String 1) JavaBoan (PQ)(3) binding public static void lint(Long i, String n) (@As(binder=MyCustomStringBinder.class)) @WoSinding Custom parameter binder Quer Costroller/show3id(0)=1&id(1)=2&id(2)=3&id(3)=4 Marks a non-bindable field public static void show(Long[] id) Acces Post @Eguals "passwordConfirmation") String password **GURL String address** List p Finde @InFuture String cueDate @Pv4/ddress String ip @Required String lastname @Pv6/Address String ip @InFuture("1979-12-31") String birthCate post. gitsTrue String agree @Match("[A-2](33") String abbreviation Offiners String phone @Max(7500) Integer wordCount Save I @Match("(directDebit|creditCard)onReceipt)") Relaxed phone validation BMin(18) Long age @aut String actualCepartureDate @MaxSize(2083) String value @Past=1980-01-615 String birthDate @Valid Person person @MinSize(42) String value Javallean (PCIC) validation - class Person needs validation annotations @Range(min = 17500, max = 40000) String wordCount d in a @Ent @Email String address Specif Values are limited to Strings, 488 max Cache.get("key." + id, Product.class); @Eml Get cache value, may return null flash.put(String key, String value): Defin WAKRING: PRIV Session is NOT the IZEE session Cache-delete("key_" + id); flash.get(String key): session and flash use cookies! 988 limit/25 cookies max Flash entries are discarded at end of next request Non blocking cache delete session nettid?) Cache set("key_" + id, product, "30mn"); Cache.safeDelete("key." + ic): Returns the session ID - is most cases: a must have! **BGer** Set cache value to 30 minutes Blocking cache delete IDEN session.put(String key, String value): session.get("user_flag"); render[son[params_): redirect("http://www.crionics.com": Renders parameters as application/ison HTTF redirect to the given UR. @Tab render(params...); renderText(params_); From an action, calling another Controller.action() Defin Renders template with given parameters, as text/html The framework transparency generates a REDIRECT! Renders pasameters as text/plain render/ML(parame_); renderTemplate("Clients.)showClienthtml", id, client); Renders parameters as application/kml Defin Bypusses default template given 60x(*0 ¢ 12 · · ?*) @Every("1h") Defin Controller - John Feery day at 12:01pm public class Romstran extends Job (public void deJob() (...) } @OnApplicationStart @O=("10 30 12 f + MON-FRI") Every working day at 12 30pm and 10s. Conv difinally static void audit) @Carch(value=(FuntimeException.class)) public static void onException@untimeException e) [...] **BPTE** You get the idea. @Before - action - @After - template - @Finally Defin Exception handling at the controller level @With/Secure.class) Intercepcions evaluation order public class Admin extends Application @Before static void check/authent fication() Custom interceptors at the centroller scope @After static voic leg() @Cachefor("1h") public static void index() [...] Query query = JPAem().createQuery("query"; BOm Caches the result of the action for 1 hour Access the persistence manager Defin Locger.infoC'Action executed ..."); Play.configuration.getProperty("Nog.ite"); Locger.debug("A log message"); **BON** Access to the configuration file

Logger ermrier, "Deps") Defin logging configuration lives in application conf

WSurl("http://s.com/posts").get()to(\$0N();

BNar Defin

HT PGET request to ISON WSwithEncoding/Tiro-8659-

1")url("http://s.com/posts").ges()tol50N(); HTTP GET request to JSON using iso-8859-1 encoding

WSurl("http://s.com/").post().teXML); HTTPPCST request to XM.

BB.executs("raw :q/"); Eval rew SQL

XML.getDocument(String): String to XVII. XML:serialize(Document):

XM. to String

XParh.selectNodes/String xeath, Direct node):

XPath expression evaluator

Files.copy(File,File); File popy Files.copyDinFile,File):

Recursive directory copy Files.defete(File); Files.deleteDirectory(File); Deletes file/directory

10.readLines(File): 10.readContentAsString(File): 10.readContentFile): 10.write(byte(1,fille): Read/Write file coments

images.crop@lie orig,File tc, int x1, int y1 int x2, im y2); Images.res ze(File ong. File to, int w, int h);

Images.tcBase64(File image):

Handy methodal

CryptoencryptA55(5trling) CryptodecryptA55(String) Encryption using the application secret bey

CryptopasswercHash(String):

Create an MDS password high Codec.UUD);

Generales unique IDs

Codec.byteToHerString/byte[] bytes): Write a byte array as hexadecimal String Codec.encode8A8E94(brte[] value); Codec.decode&ASES4(String base6+); Encode/Decade a base64 value

Coder herSRA1/Stringly Ruild a hexaderimal SHAT hash for a String WIT

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Command Line

Model Command Line Tests Controllers Multi Environment Templates



Command line - play command

dasspath

Display the computed classpath

Define the framework ID, used for multi-environment configuration

secret

Cenerate a new secret key, used for encryption

install

Install a module

list-modules

List modules available in the central module repository.

Display the computed modules list

new

Create a new application

new-module Create a module build-module

Build and package a module

eclipsify

Create all Edipse configuration files

netbeansify

Create all NetBeans configuration files

Create all Intellit Idea configuration files

lavadoc

Generate your application lavador.

auto-test

Automatically run all application tests

Delete temporary files (including the bytecode cache)

Run the application in test mode in the current shell

precompile

Precompile all Java sources and templates to speed up application start-up

Export the application as a standalone WAR archive

run

Run the application in the current shell

Start the application in the background

Stop the running application

restart

Restart the running application

status

Display the running application's status

Follow loos/system.out file

Show the PID of the running application

Check for a Play framework release newer than the current one

Display help on a specific command

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Test configuration %test.db=mem

%test.jpa.ddl=create-drop

Dev configuration %dev.http.port=8080

Multi Environment

Model Command Line Tests Controllers Multi Environment Templates

%dev.application.log=DEBUG %dev.application.mode=dev # Production configuration

%prod.http.port=80 %prodapplication.log=INFO %prod.application.mode=prod play run --%prod play run --Xdev play test

Will pick the appropriate configuration



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Tests

Model Command Line Tests Controllers Multi-Environment Templates

Test - Unit Tests

@Test public void getRental() { ... } @Test (expected = NumberFormatException.class)

@ignore Ignore any errors

@Test (timeout=400)

Test will fail after 400 milliseconds

@Before public void prepareRecords();

Run before each unit test

Run after each unit test

@BeforeClass void whenTestClassInstanciated();

Run once, when the test class gets instantiated

@AfterClass void whenTestClassCompleted() Run once when the test class is dismissed

Assertassert

There are tons of assertions, look it up

Test - Functional Tests

public class ApplicationTest extends FunctionalTest

Functional test are unit tests with an HTTP orientation

GET(request, url) PUT(request, url) POST(request,url)

newRequest()

newResponse()

DELETE(request,url)

assertTextPresent('Login')

type('password', 'secret')

dickAndWait('signin')

assertContentEquals(content, response)

assertStatus(404, response)

assertHeaderEquals(headerName, value, response)

assertContentType(type,response)

clearCookies()

// Verify that the user in correctly logged in assertText('success', 'Welcome admin!') type('login', 'admin')

#{/selenium}

open('/admin') Test - Data loader

#{selenium}

clearSession()

@Before public void setUp() { Fixtures.deleteAlI();

Fixtures.load("data.yml");]

Fixtures is used to initialise the datastore before running a unit test

#{fixture delete:'all', load:'data.yml' /}

#(selenium) .. #(/selenium)

Same idea using a Selenium test