

AdminFaces

Version 1.0.0-RC21

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📖 Read this documentation [in HTML5 here](#).

Chapter 1. Introduction

[AdminFaces](#) is an open source project which brings [Bootstrap](#) and [AdminLTE](#) to your application via a [PrimeFaces](#) theme and a [JSF responsive](#) template.

AdminFaces ecosystem is composed by the following projects:

- [Admin Theme](#): A Primefaces theme based on [Bootstrap](#) and [Admin LTE](#) where [Primefaces](#) components are customized to look like mentioned frameworks.
- [Admin Template](#): A **fully responsive** [Java Server Faces admin](#) template which is also based on [Bootstrap](#) and [Admin LTE](#).
- [Admin Showcase](#): A showcase web application, [deployed on openshift](#), which demonstrates AdminFaces main features and components.
- [Admin Designer](#): The same showcase application with Admin Theme and Admin Template bundled (instead of being library dependencies) in order to make it easier to customize the theme and the template.
- A variety of [starters projects](#) to help you get started with AdminFaces and your favorite stack.
- [Admin Persistence](#): CRUD operations like a breeze for AdminFaces applications based on [Apache DeltaSpike Data](#) module.
- [Admin Mobile](#): A simple [Android Studio](#) project which uses [Webview](#) to create an [hybrid web app](#) based on Admin Showcase.

In subsequent chapters we will drive through each project in detail.

Chapter 2. Admin Theme

Admin Theme is a **PrimeFaces theme** where components are styled to look like AdminLTE ones (which in turn are based on Bootstrap).

2.1. Prerequisites

The only pre-requisite is **PrimeFaces** and **Font Awesome**.

Since PrimeFaces 5.1.1 font awesome comes embedded, you just need to activate it in `web.xml`:

```
<context-param>
  <param-name>primefaces.FONT_AWESOME</param-name>
  <param-value>true</param-value>
</context-param>
```

For **previous versions** or if you need to upgrade FA version you may include it in your pages by using webjars:



```
<h:outputStylesheet library="webjars" name="font-
awesome/4.7.0/css/font-awesome-jsf.css" />
```

and add fontawesome webjar in your classpath:

```
<dependency>
  <groupId>org.webjars</groupId>
  <artifactId>font-awesome</artifactId>
  <version>4.7.0</version>
</dependency>
```

2.2. Usage

To start using the theme you need the following:

1. Add admin theme to your classpath:

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
</dependency>
```

2. Activate the theme in `web.xml`

```
<context-param>
  <param-name>primefaces.THEME</param-name>
  <param-value>admin</param-value>
</context-param>
```



If you use [Admin Template](#) the theme already comes activated.

Now PrimeFaces components are styled like Bootstrap and AdminLTE.



See [showcase forms page](#) to get an idea.

2.3. Architecture

The theme uses [less](#) as css pre-processor. Each PrimeFaces component has its own less file:



- ① Bootstrap variables and [mixins](#) are used as reference in AdminLTE and admin theme less files
- ② Built in skins
- ③ PrimeFaces components
- ④ Components and Admin-LTE less files are included in theme.less

After compilation it will generate the theme.css with Admin-LTE, Bootstrap and Primefaces components.



Bootstrap.css (from src/META-INF/resources) is included in theme.less but can be removed via [maven classifiers](#)



Bootstrap less is not maintained in this project only it's mixins.

2.4. Theme classifiers

This project uses [maven classifiers](#) to offer multiple [faces](#) (pum intended) of Admin Theme. Below is the description of each classifier and how to use it.

2.4.1. Default (no classifier)

The default theme comes [compressed](#), with [Bootstrap \(3.3.7\)](#) embedded and uses [JSF resource handling](#) for loading images and web fonts.

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
</dependency>
```

2.4.2. Dev classifier

The **dev** classifier will bring a theme.css **without minification**.

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>dev</classifier>
</dependency>
```

2.4.3. Without Bootstrap classifier

The **without-bootstrap** classifier will bring a theme.css **without bootstrap embedded** so it's up to the developer to provide Bootstrap within the application.

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>without-bootstrap</classifier>
</dependency>
```

2.4.4. Without JSF classifier

The **without-jsf** classifier will bring a theme.css **without JSF resource handling** so the theme can be used on projects (derived from PrimeFaces) without JSF like Prime React, PrimeUI or PrimeNG.

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>without-jsf</classifier>
</dependency>
```


2.4.5. No Fonts classifier

Since **v1.0.0-RC16** web fonts such as **glyphicons** and **Source Sans Pro** are embedded inside the theme instead of being queried from a **CDN**.

This makes the theme work offline or in environments with limited access to the internet but on the other hand results in a larger jar file, **~1MB** against **~200kb** when fonts are not in the theme.

So if you want a thinner theme you can use the **no-fonts** classifier:

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>no-fonts</classifier>
</dependency>
```

2.5. Avoiding theme caching

Whenever the theme is updated to a new version in the project users may have to clear their browser caches to get the changes of the new theme.

Sometimes a theme update even introduces conflicts and only clearing browser cache fixes them.

To solve this issues you can use a theme classifier called **no-cache**:

pom.xml

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>no-cache</classifier>
</dependency>
```

This classifier **appends the theme version** to the name of theme so you need to change the theme name in web.xml:

web.xml

```
<context-param>
  <param-name>primefaces.THEME</param-name>
  <param-value>admin-1.0.0-RC21</param-value>
</context-param>
```



There is also a **no-cache-no-fonts** classifier combining both approaches.

2.6. Development

To get your hands dirty with admin theme it is recommended to use [Admin Designer](#) in combination with [Brackets](#) or any tool that **compile less** files to css on save.

Using designer, which is backed by wildfly swarm, plus brackets will let you change the components less files and see the results instantly. see [this video](#) to see Brackets and Designer in action.



theme.less is already brackets aware so you just need to change any component less file, save it and see the results in Admin Designer.

2.7. Snapshots

Theme **Snapshots** are published to [maven central](#) on each commit, to use it just declare the repository below on your **pom.xml**:

```
<repositories>
  <repository>
    <snapshots/>
    <id>snapshots</id>
    <name>libs-snapshot</name>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </repository>
</repositories>
```

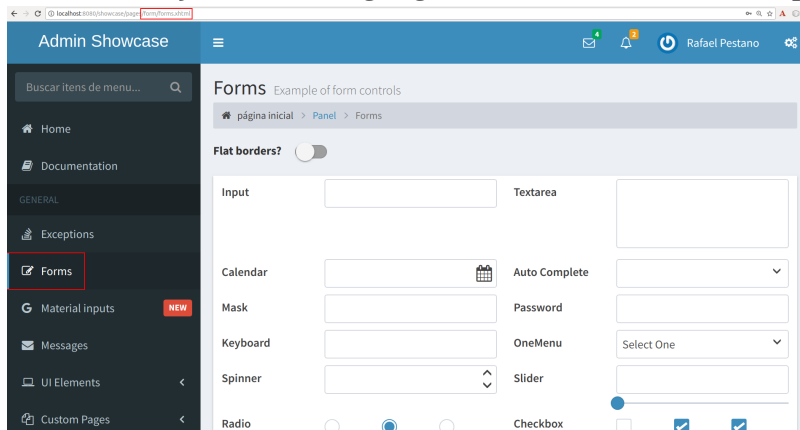
Chapter 3. Admin Template

[Admin Template](#) is a **fully responsive** *Java Server Faces* admin template based on [Bootstrap](#) and [AdminLTE](#).

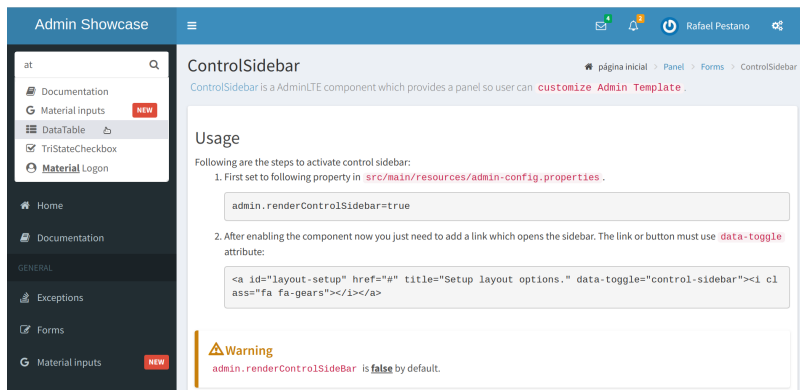
3.1. Features

Below is a non exhaustive list of notable features brought out of the box by this template:

- Fully **responsive**
 - Its based on Bootstrap and AdminLTE two well tested and solid frameworks
- Enhanced mobile experience
 - Material design load bar
 - Material design flat buttons
 - Ripple effect based on [materialize css](#) [27104868 d9bfb33e 5063 11e7 83be 2201a3f8cda5]
 - Touch enabled menu to slide in/out [dd37121e 2296 11e7 855c 8f20b59dcf5f]
 - Auto show and hide navbar based on page scroll
 - Scroll to top
- Automatically activates (highlight) menu based on current page



- Custom [error pages](#)
- Two menu modes, **left** and **horizontal** based menu
- Configurable, see [Configuration](#)
- [Breadcrumb](#) based navigation
- Layout customization via [Control Sidebar](#)
- High resolution and responsible icons based on Glyphicons and FontAwesome
- Menu itens search



- Built-in **dark** and **light** skins
- Back to previous screen when logging in again after session expiration (or accessing a page via url without being logged in)



Most of the above features can be disabled via [configuration](#) mechanism.

3.2. Usage

Add the following dependency to your classpath:

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-template</artifactId>
  <version>1.0.0-RC21</version>
</dependency>
```

Admin template will bring the following transitive dependencies:



```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-theme</artifactId>
  <version>1.0.0-RC21</version>
</dependency>

<dependency>
  <groupId>org.primefaces</groupId>
  <artifactId>primefaces</artifactId>
  <version>6.2</version>
</dependency>

<dependency>
  <groupId>org.omnifaces</groupId>
  <artifactId>omnifaces</artifactId>
  <version>2.1</version>
</dependency>
```

Which you can override in your pom.xml as needed.

3.2.1. Legacy classifier

Since **admin-template RC21** the template is compatible with PrimeFaces **6.2** and newer versions. To use the template with older PrimeFaces version, use the **legacy classifier**:



```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-template</artifactId>
  <version>1.0.0-RC21</version>
  <classifier>legacy</classifier>
</dependency>
<dependency>
  <groupId>org.primefaces</groupId>
  <artifactId>primefaces</artifactId>
  <version>6.1</version>
</dependency>
```

With the template dependency in classpath now you can use **admin** facelets template into your JSF pages.

3.2.2. Example

Consider the following sample page:

```

<?xml version="1.0" encoding="UTF-8"?>
<ui:composition xmlns="http://www.w3.org/1999/xhtml"
    xmlns:ui="http://java.sun.com/jsf/facelets"
    xmlns:p="http://primefaces.org/ui"
    template="/admin.xhtml"> ①

    <ui:define name="head">
        <title>Admin Starter</title>
    </ui:define>

    <ui:define name="logo-lg">
        Admin Starter
    </ui:define>

    <ui:define name="logo-mini">
        Admin
    </ui:define>

    <ui:define name="menu">
        <ul class="sidebar-menu" data-widget="tree">
            <li>
                <p:link href="/index.xhtml" onclick="clearBreadCrums()">
                    <i class="fa fa-home"></i>
                    <span>Home</span>
                </p:link>
            </li>
            <li class="header">
                General
            </li>
            <li>
                <p:link href="/car-list.xhtml">
                    <i class="fa fa-car"></i>
                    <span>Cars</span>
                </p:link>
            </li>
        </ul>
    </ui:define>

    <ui:define name="top-menu">
        <ui:include src="/includes/top-bar.xhtml"/>
    </ui:define>

    <ui:define name="title">
        <h2 class="align-center">
            Welcome to the <span class="text-aqua"> <i><a href=
"https://github.com/adminfaces/admin-starter" target="_blank"
                                style="text-transform: none
; text-decoration: none"> AdminFaces Starter</a></i></span> Project!
        <br/>
        <small>Integrating <p:link value="Primefaces" href="http://primefaces.org
"/>, <p:link value="Bootstrap"

```

```

href="http://getbootstrap.com/"> and
    <p:link value="Admin LTE" href=
"https://almsaeedstudio.com/themes/AdminLTE/index2.html/"> into your
    <p:link value="JSF" href="https://javaserverfaces.java.net/">
application.
    </small>
</h2>
</ui:define>

<ui:define name="description">
    A page description
</ui:define>

<ui:define name="body">
    <h2>Page body</h2>
</ui:define>

<ui:define name="footer">
    <a target="_blank"
href="https://github.com/adminfaces/">
    Copyright (C) 2017 - AdminFaces
    </a>

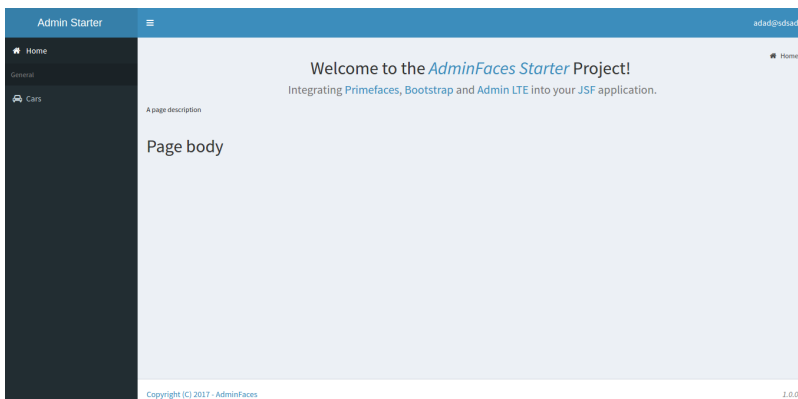
    <div class="pull-right hidden-xs" style="color: gray">
        <i>1.0.0</i>
    </div>
</ui:define>

</ui:composition>

```

① /admin.xhtml is the location of the template

The above page definition renders as follows:



There are also other regions defined in admin.xhtml template, [see here](#).



A good practice is to define a template on your application which extends the admin template, see [admin-starter application template here](#).

So in your pages you use your template instead of admin.

3.3. Application template

Instead of repeating sections like **menu**, **logo**, **head** and **footer** on every page we can create a template inside our application which uses `admin.xhtml` as template:

/WEB-INF/templates/template.xhtml

```
<?xml version="1.0" encoding="UTF-8"?>
<ui:composition xmlns="http://www.w3.org/1999/xhtml"
    xmlns:ui="http://java.sun.com/jsf/facelets"
    xmlns:p="http://primefaces.org/ui"
    template="/admin.xhtml">

    <ui:define name="head">
        <title>Admin Starter</title>
        <h:outputStylesheet library="css" name="starter.css"/>
    </ui:define>

    <ui:define name="logo-lg">
        Admin Starter
    </ui:define>

    <ui:define name="logo-mini">
        Admin
    </ui:define>

    <ui:define name="menu">
        <ul class="sidebar-menu" data-widget="tree">
            <li>
                <p:link href="/index.xhtml" onclick="clearBreadCrums()">
                    <i class="fa fa-home"></i>
                    <span>Home</span>
                </p:link>
            </li>
            <li class="header">
                General
            </li>
            <li>
                <p:link href="/car-list.xhtml">
                    <i class="fa fa-car"></i>
                    <span>Cars</span>
                </p:link>
            </li>
        </ul>
    </ui:define>
```



```

<ui:define name="top-menu">
    <ui:include src="/includes/top-bar.xhtml"/>
</ui:define>

<ui:define name="footer">
    <a target="_blank"
        href="https://github.com/adminfaces/">
        Copyright (C) 2017 - AdminFaces
    </a>

    <div class="pull-right hidden-xs" style="color: gray">
        <i>1.0.0</i>
    </div>
</ui:define>

</ui:composition>

```

And now the page can just define its content and title:

/webapp/mypage.xhtml

```

<?xml version="1.0" encoding="UTF-8"?>
<ui:composition xmlns="http://www.w3.org/1999/xhtml"
    xmlns:ui="http://java.sun.com/jsf/facelets"
    xmlns:p="http://primefaces.org/ui"
    template="/WEB-INF/templates/template.xhtml">

    <ui:define name="title">
        A page title
    </ui:define>

    <ui:define name="description">
        A page description
    </ui:define>

    <ui:define name="body">
        <h2>Page body</h2>
    </ui:define>

</ui:composition>

```

3.3.1. Switching between left menu and top menu templates

AdminFaces supports two layout modes, one is **left based menu** and the other is **top based menu**.

The user can change layout modes via **control sidebar** but to make it work you have to use **LayoutMB** to define page template:

/webapp/mypage.xhtml

```
<?xml version="1.0" encoding="UTF-8"?>
<ui:composition xmlns="http://www.w3.org/1999/xhtml"
    xmlns:ui="http://java.sun.com/jsf/facelets"
    xmlns:p="http://primefaces.org/ui"
    template="#{layoutMB.template}">

<!-- page content -->

</ui:composition>
```

As a **convention over configuration** LayoutMB will load templates from the following locations:

- webapp/WEB-INF/templates/template.xhtml and resources/META-INF/resources/templates/template.xhtml for the left menu based template
- webapp/WEB-INF/templates/template-top.xhtml and resources/META-INF/resources/templates/template-top.xhtml for horizontal menu layout.



If you don't provide a [Application template](#) then built in `admin.xhtml` and `admin-top.xhtml` templates will be used.

See admin-starter templates for a reference: <https://github.com/adminfaces/admin-starter/tree/master/src/main/webapp/WEB-INF/templates>



[Admin starters archetypes](#) already come with both templates configured.

3.4. Configuration

Template configuration is made through `admin-config.properties` file present in `src/main/resources` folder.

Here are the default values as well as its description:

```

admin.loginPage=login.xhtml ①
admin.indexPage=index.xhtml ②
admin.dateFormat= ③
admin.breadcrumbSize=5 ④
admin.renderMessages=true ⑤
admin.renderAjaxStatus=true ⑥
admin.disableFilter=false ⑦
admin.renderBreadCrumb=true ⑧
admin.enableSlideMenu=true ⑨
admin.enableRipple=true ⑩
admin.rippleElements= .ripplelink,button.ui-button,.ui-selectlistbox-item,.ui-
multiselectlistbox-item,.ui-selectonemenu-label,.ui-selectcheckboxmenu,\
.ui-autocomplete-dropdown, .ui-autocomplete-item ... (the list goes on) ⑪
admin.skin=skin-blue ⑫
admin.autoShowNavbar=true ⑬
admin.ignoredResources= ⑭
admin.loadingImage=ajaxloadingbar.gif ⑮
admin.extensionLessUrls=false ⑯
admin.renderControlSidebar=false ⑰
admin.controlSidebar.showOnMobile=false ⑱
admin.controlSidebar.leftMenuTemplate=true ⑲
admin.controlSidebar.fixedLayout=false ⑳
admin.controlSidebar.boxedLayout=false
admin.controlSidebar.sidebarCollapsed=false
admin.controlSidebar.expandOnHover=false
admin.controlSidebar.fixed=false
admin.controlSidebar.darkSkin=true
admin.rippleMobileOnly=true
admin.renderMenuSearch=true
admin.autoHideMessages=true
admin.messagesHideTimeout=2500
admin.iconsEffect=true

```

- ① login page location (relative to webapp). It will only be used if you configure [Admin Session](#).
- ② index page location. User will be redirected to it when it access app root (contextPath/).
- ③ Date format used in error page ([500.xhtml](#)), by default it is JVM default format.
- ④ Number of breadcrumbs to queue before removing the older ones.
- ⑤ When false, p:messages defined in admin template will not be rendered.
- ⑥ When false ajaxStatus, which triggers the loading bar on every ajax request, will not be rendered.
- ⑦ Disables AdminFilter, responsible for redirecting user after session timeout, sending user to logon page when it is not logged in among other things.
- ⑧ When false, the breadCrumb component, declared in admin template, will not be rendered.
- ⑨ If true will make left menu touch enable (can be closed or opened via touch). Can be enable/disabled per page with <ui:param name="enableSlideMenu" value="false".
- ⑩

When true it will create a **wave/ripple effect** on elements specified by **rippleElements**.

- ⑪ A list of comma separated list of (jquery) selector which elements will be affected by ripple effect.
- ⑫ Default template skin.
- ⑬ Automatic shows navbar when users scrolls page up on **small screens**. Can be enable/disabled per page with `<ui:param name="autoShowNavbar" value="false">`.
- ⑭ Comma separated resources (pages or urls) to be skipped by AdminFilter. Ex: `/rest, /pages/car-list`. Note that by default the filter skips pages under **CONTEXT/public/** folder.
- ⑮ image used for the loading popup. It must be under **webapp/resources/images** folder.
- ⑯ Removes extension suffix from breadcrumb links.
- ⑰ When true it will activate **control sidebar** component.
- ⑱ When true control sidebar will be also rendered on mobile devices.
- ⑲ Switches layout between left (default) and top menu.
- ⑳ Toggles fixed layout where navbar is fixed on the page.

Toggles boxed layout which is helpful when working on large screens because it prevents the site from stretching very wide.

When true left sidebar will be collapsed.

When true left sidebar will expand on mouse hover.

When true control sidebar will be fixed on the page.

Changes control sidebar skin between **dark** and **light**.

When true the ripple effect will be enabled only on mobile (small) screens.

Enables or disables menu search.

If true PrimeFaces **info** messages will be hidden after a certain timeout.

Timeout to hide info messages. Note that the timeout is composed by **configured timeout + number of words** in message.

Enables material effect when icons (e.g modal close, calendar) are clicked.



You don't need to declare all values in your admin-config.properties, you can specify only the ones you need in order to change.



Since vRC16 config properties can be passed as Java **system properties**.



Controlsidebar entries (admin.controlSidebar.xxx) will be used only for initial/default values because they will be stored on browser local storage as soon as user changes them.

3.5. Admin Session

AdminSession is a simple session scoped bean which controls whether user is logged in or not.

```
public boolean isLoggedIn(){
    return isLoggedIn; //always true by default
}
```

By default the user **is always logged in** and you need to override it (by using [bean specialization](#) or via injection and calling `setIsLoggedIn()` method) to change its value, see [Overriding AdminSession](#).

When `isLoggedIn` is **false** you got the following mechanisms activated:

1. Access to any page, besides the login, redirects user to login;
2. When session is expired user is redirected to logon and current page (before expiration) is saved so user is redirected back to where it was before session expiration.



It is up to you to decide whether the user is logged in or not.

3.5.1. Overriding AdminSession

There are two ways to override AdminSession default value which is [specialization](#) and [injection](#).

AdminSession Specialization

A simple way to change AdminSession logged in value is by extending it:

```

import javax.enterprise.context.SessionScoped;
import javax.enterprise.inject.Specializes;
import com.github.adminfaces.template.session.AdminSession;
import org.omnifaces.util.Faces;
import java.io.Serializable;

@SessionScoped
@Specializes
public class LogonMB extends AdminSession implements Serializable {

    private String currentUser;
    private String email;
    private String password;
    private boolean remember;

    public void login() throws IOException {
        currentUser = email;
        addDetailMessage("Logged in successfully as <b>" + email + "</b>");
        Faces.getExternalContext().getFlash().setKeepMessages(true);
        Faces.redirect("index.xhtml");
    }

    @Override
    public boolean isLoggedIn() {

        return currentUser != null;
    }

    //getters&setters
}

```

3.5.2. AdminSession Injection

Another way is to inject it into your security authentication logic:

```

import com.github.adminfaces.template.session.AdminSession;
import org.omnifaces.util.Messages;
import org.omnifaces.util.Faces;

@SessionScoped
@Named("authorizer")
public class CustomAuthorizer implements Serializable {

    private String currentUser;

    @Inject
    AdminSession adminSession;

    public void login(String username) {
        currentUser = username;
        adminSession.setIsLoggedIn(true);
        Messages.addInfo(null, "Logged in successfully as <b>"+username+"</b>");
        Faces.redirect("index.xhtml");
    }
}

```



As `isLoggedIn` is **true by default** you need to set it to false on application startup so user is redirected to login page. This step is not needed when using [AdminSession Specialization](#).

3.6. Error Pages

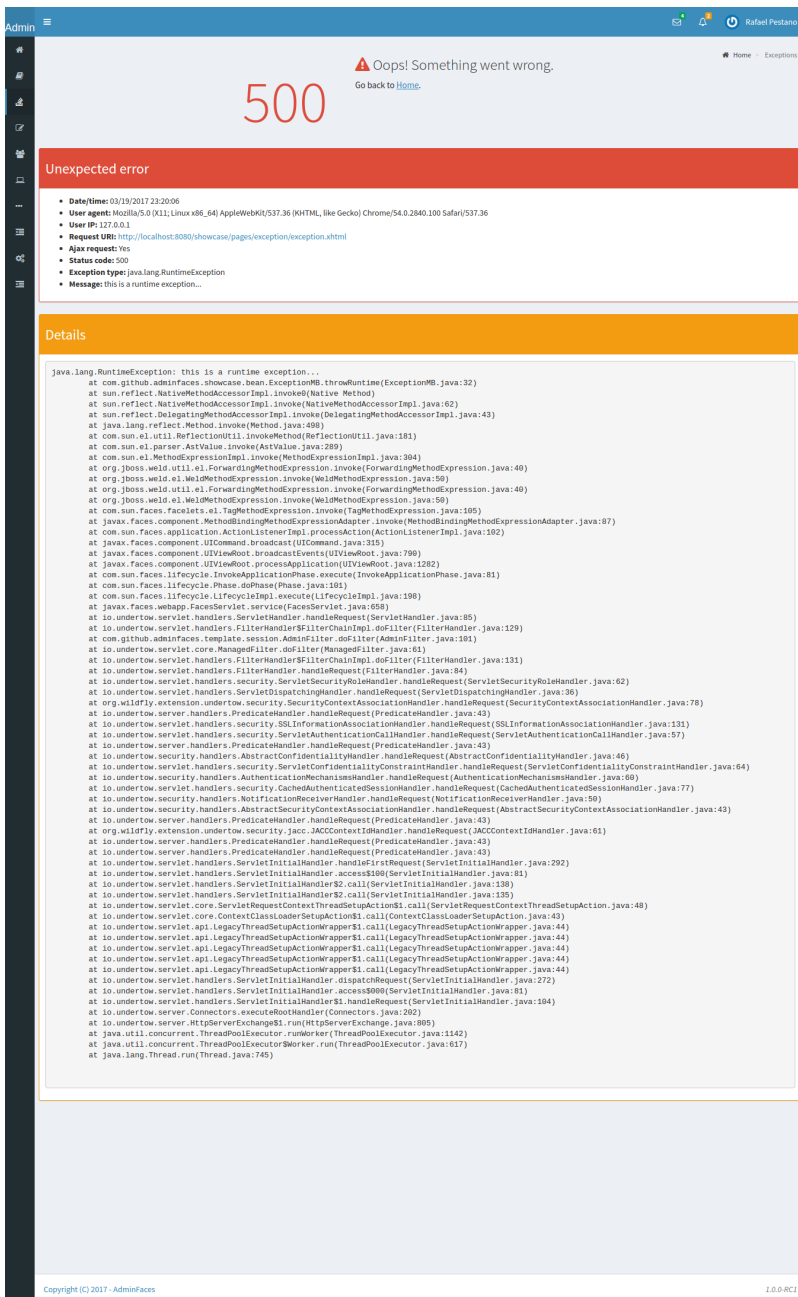
The template comes with custom error pages like **403**, **404**, **500**, **ViewExpired** and **OptimisticLock**.

500

User is going to be redirected to **500.xhtml** whenever a **500** response code is returned in a request.

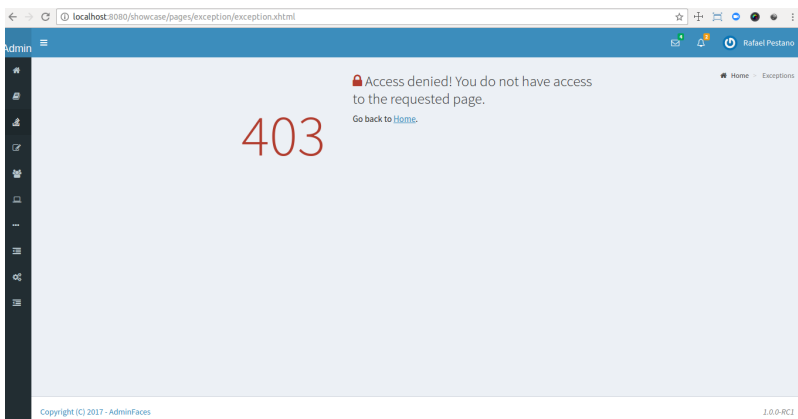
The page will also be triggered when a **Throwable** is raised (and not catch).

Here is how 500 page look like:

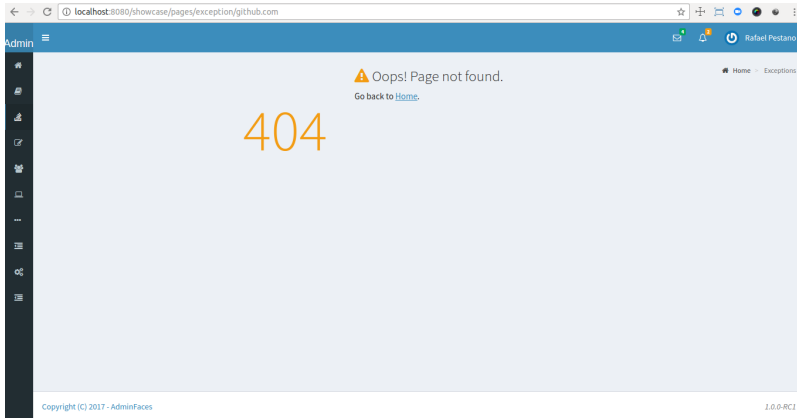


403

User is redirected to [403.xhtml](#) whenever a 403 response code is returned in a request. The page will also be triggered when a `com.github.adminfaces.template.exception.AccessDeniedException` is raised.

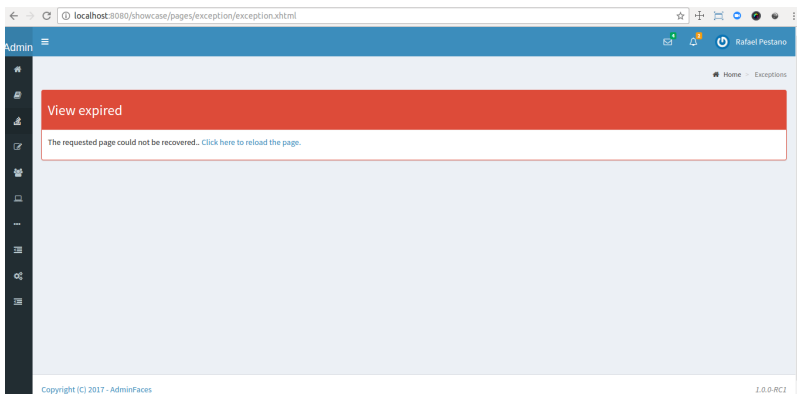


User will be redirected to [404.xhtml](#) whenever a 404 response code is returned from a request.



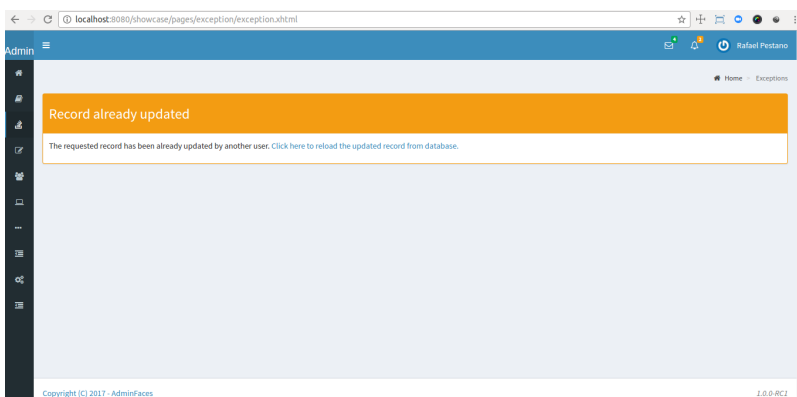
ViewExpired

When a JSF `javax.faces.application.ViewExpiredException` is raised user will be redirected to [expired.xhtml](#).



OptimisticLock

When a JPA `javax.persistence.OptimisticLockException` is thrown user will be redirected to [optimistic.xhtml](#).



3.6.1. Providing custom error pages

You can provide your own custom pages (and other status codes) by configuring them in `web.xml`, example:

```

<error-page>
    <error-code>404</error-code>
    <location>/404.xhtml</location>
</error-page>
<error-page>
    <error-code>500</error-code>
    <location>/500.xhtml</location>
</error-page>
<error-page>
    <exception-type>java.lang.Throwable</exception-type>
    <location>/500.xhtml</location>
</error-page>

```

3.6.2. Overriding error pages

You can also override error pages by placing the pages (with same name) described in [Error Pages](#) section on the root of your application (**webapp/**).

3.7. Internationalization

Labels in [error pages](#) and [control sidebar](#) are provided via [JSF resource bundle](#) mechanism.

Following are the default labels in admin resource bundle:

src/main/resources/admin.properties

```

#general
admin.version=${project.version}
label.go-back=Go back to

#403
label.403.header=403
label.403.message=Access denied! You do not have access to the requested page.

#404
label.404.header=404
label.404.message=Oops! Page not found

#500
label.500.header=500
label.500.message=Oops! Something went wrong
label.500.title=Unexpected error
label.500.detail=Details

#expired
label.expired.title=View expired
label.expired.message= The requested page could not be recovered.
label.expired.click-here= Click here to reload the page.

```

```
#optimistic
label.optimistic.title=Record already updated
label.optimistic.message= The requested record has been already updated by another
user.
label.optimistic.click-here= Click here to reload the updated record from database.

#controlsidebar
controlsidebar.header=Layout Options
controlsidebar.label.restore-defaults=Restore defaults
controlsidebar.label.menu-horientation=Left menu layout
controlsidebar.txt.menu-horientation=Toggle menu orientation between <b
class=\"sidebar-bold\">left</b> and <b class=\"sidebar-bold\">top</b> menu.
controlsidebar.label.fixed-layout=Fixed Layout
controlsidebar.txt.fixed-layout=Activate the fixed layout, if checked the top bar will
be fixed on the page.
controlsidebar.label.boxed-layout=Boxed Layout
controlsidebar.txt.boxed-layout=Activate the boxed layout.
controlsidebar.label.sidebar-collapsed=Collapsed Sidebar
controlsidebar.txt.sidebar-collapsed=If checked the sidebar menu will be collapsed.
controlsidebar.label.sidebar-expand-hover=Sidebar Expand on Hover
controlsidebar.txt.sidebar-expand-hover=If checked the left sidebar will expand on
hover.
controlsidebar.label.sidebar-slide=Control Sidebar fixed
controlsidebar.txt.sidebar-slide=If checked control sidebar will be fixed on the page.
controlsidebar.label.sidebar-skin=Dark Sidebar Skin
controlsidebar.txt.sidebar-skin=If checked <b class=\"sidebar-bold\">dark</b> skin will
be used for control sidebar, otherwise <b class=\"sidebar-bold\">light</b> skin will be
used.
controlsidebar.header.skins=Skins
```



You can provide your own language bundle adding a file named *admin_YOUR_LANGUAGE.properties* in your application **resources** folder.

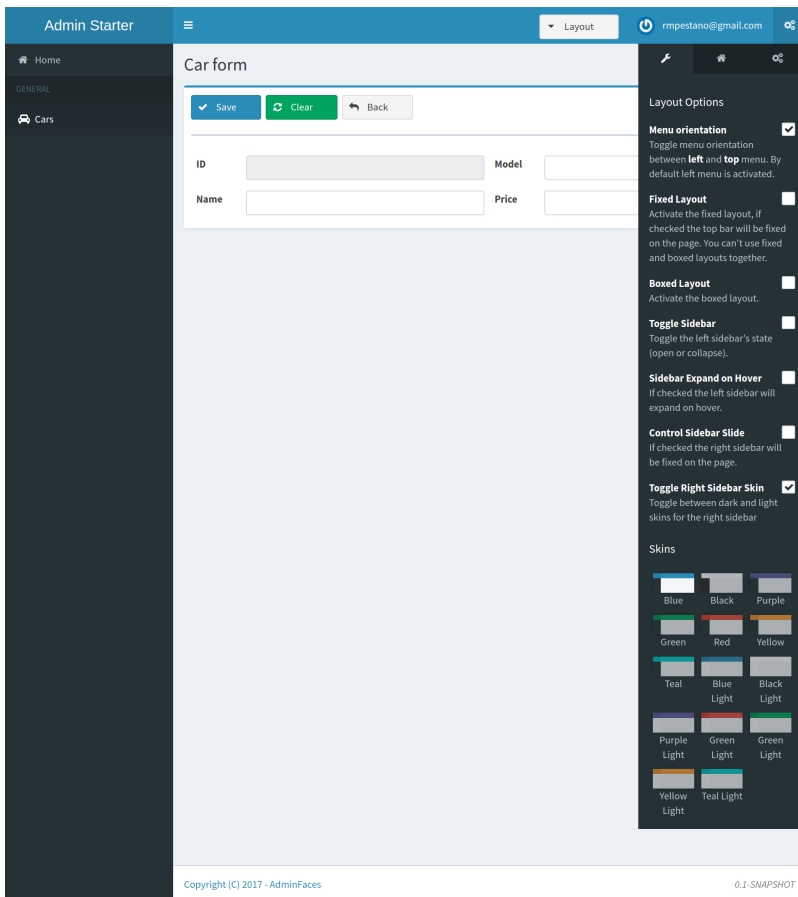
Don't forget to add it as **supported locale** in **faces-config**, see [example here](#).



You can contribute your language locale to AdminFaces, [check here](#) the current supported locales.

3.8. Control Sidebar

ControlSidebar is a component which provides a panel so user can **customize** the template layout:



Options selected by user are stored on **browser local storage** so they are remembered no matter the user logs off the application.

3.8.1. Usage

To enable the control sidebar you need to add the following entry in `src/main/resources/admin-config.properties`:

```
admin.renderControlSidebar=true
```

And then add a link or button on your page which opens the sidebar. The link or button must use `data-toggle` attribute:

```
<a href="#" id="layout-setup" data-toggle="control-sidebar" class="hidden-sm hidden-xs"><i class="fa fa-gears"></i></a>
```

On admin-starter the link is located on [top-bar.xhtml](#).

[Click here](#) to see controlsidebar in action on admin showcase.

By default the control sidebar comes only with the configuration tab but you can define additional tabs by defining `controlsidebar-tabs` and `controlsidebar-content` on your template. An example can be found on [admin-starter template](#).

ControlSidebar is hidden on mobile devices by default. You can change this on `admin-config.properties`:

```
admin.controlSidebar.showOnMobile=true
```



Also don't forget to remove the `hidden-sm hidden-xs` classes from the button/link that opens the sidebar:

```
<a href="#" class="ui-link ui-widget" data-toggle="control-  
sidebar"><i class="fa fa-gears"></i></a>
```

3.9. BreadCrums

Breadcrumbs based navigation indicates the location of the user within the site's hierarchy.

AdminFaces provides a composite component which will manage breadCrums as user navigates through the pages.



3.9.1. Usage

There are three ways to use the component, via `adm:breadcrumb` **composite component**, by using a `ui:param` or **programmatically**.

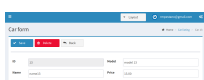
1. Using via **composite component**

To use the composite component just declare the **admin namespace** and provide a title and the link, following is **car-form** breadcrumb declaration in **admin starter**:

car-form.xhtml

```
<ui:composition xmlns="http://www.w3.org/1999/xhtml"  
                xmlns:adm="http://github.com/adminfaces">  
  
    <ui:define name="body">  
        <adm:breadcrumb title="#{empty carFormMB.id ? 'New Car' : 'Car  
'}.concat(carFormMB.id)}" link="car-form.jsf?id=#{carFormMB.id}"/>  
        //other page components  
    </ui:define>  
</ui:composition>
```

So when user enters the car-form page a breadcrumb will be created based on currently edited car or 'New Car' label will be used when adding a Car:



The **link** is the page where user will be redirected when clicking the breadcrumb link.



If the **link** is not provided then user will be redirected to the page where the breadcrumb is declared.

2. Usage via `title ui:param`

An easy way, but not so flexible as above, of creating breadcrumbs is to use the `ui:param name="title"` on the page, following is admin-starter [car-list](#) page:

```
<ui:composition xmlns="http://www.w3.org/1999/xhtml"
                 xmlns:adm="http://github.com/adminfaces">

    <ui:param name="title" value="Car listing"/>

</ui:composition>
```

When the **title** param is present on the page, a breadcrumb with title as `ui:param value` will be added. The breadcrumb link will redirect user to the page where the `ui:param` is declared.



Declare the param as direct child of `ui:composition` otherwise it will not work in MyFaces JSF implementation if you e.g declare it inside `body` section.

3. Adding breadcrumb `programmatically`

To use breadcrumb in Java you need to `@Inject` the **BreadCrumbMB** component:

```
@Inject
private BreadCrumbMB breadcrumbMB;

public void add(){
    breadcrumbMB.add(new BreadCrumb(link,title));
}
```

3.9.2. Disable breadcrumbs

You can disable breadcrumbs **per page** or for **all pages**.

1. Disable per page

To disable breadcrumbs in a page just declare: `<ui:param name="renderBreadcrumbs" value="false"/>`. For an example see admin starter [index](#) page.

2. Disable for all pages

Just add `admin.renderBreadcrumb=false` entry in **admin-config.properties** under `src/main/resources/` folder. For details see [configuration section](#).

3.10. Snapshots

Template **Snapshots** are published to [maven central](#) on each commit, to use it just declare the repository below on your **pom.xml**:

```
<repositories>
  <repository>
    <snapshots/>
    <id>snapshots</id>
    <name>libs-snapshot</name>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </repository>
</repositories>
```

Chapter 4. Admin Showcase

The showcase is a web application which demonstrates AdminFaces main features and components. It uses [Admin Theme](#) and [Admin Template](#)

Admin Showcase

Welcome to the *AdminFaces* Showcase!
Integrating *PrimeFaces*, *Bootstrap* and *Admin LTE* into your *JSF* application.

AdminFaces is composed by the following projects:

- *Admin Theme*: Is a *PrimeFaces* theme based on *Bootstrap* and *Admin LTE* where *PrimeFaces* components are customized to look like mentioned frameworks.
- *Admin Template*: It's a **fully responsive** *Java Server Faces* *admin* template (used by this Showcase) which is also based on *Bootstrap* and *Admin LTE*.
- *Admin Showcase*: This web application which demonstrates *AdminFaces* main features and components.
- *Admin Designer*: It's the same showcase application with *Admin Theme* and *Admin Template* bundled in order to make it easier to customize the theme and the template.
- *Admin Starter*: A simple starter project to get you started with *AdminFaces*.
- *Admin Persistence*: CRUD operations like a breeze for *AdminFaces* applications based on *Apache DeltaSpike* Data module.
- *Admin Starter SpringBoot*: *Admin Starter* application based on *SpringBoot* and *JoinFaces*.
- *Admin Docs*: Holds *AdminFaces* documentation.
- *Admin Site*: *AdminFaces* site which gathers information about all projects.
- *Admin Blog*: *AdminFaces* blog, used for *AdminFaces* announcements and tips.
- *Admin Mobile*: *Admin showcase* mobile application using *Android* webview.

Dashboard (Copied from *Admin LTE*)

CPU TRAFFIC 90%

LIKES 41,410

SALES 760

NEW MEMBERS 2,000

Monthly Recap Report

Sales: 1 Jan, 2014 - 30 Jul, 2014

Goal Completion

Add Products to Cart

Complete Purchase

Visit Premium Page

Send Inquiries

GOAL COMPLETION

17% TOTAL REVENUE \$35,210.43

40% TOTAL COST \$10,390.90

20% TOTAL PROFIT \$24,813.53

GOAL COMPLETION

Layout Options

Left menu layout

Toggle menu orientation between **left** and **top** menu.

Fixed Layout

Activate the fixed layout, if checked the top bar will be fixed on the page.

Boxed Layout

Activate the boxed layout.

Collapsed Sidebar

If checked the sidebar menu will be collapsed.

Sidebar Expand on Hover

If checked the left sidebar will expand on hover.

Control Sidebar fixed

If checked control sidebar will be fixed on the page.

Dark Sidebar Skin

If checked **dark** skin will be used for control sidebar, otherwise **light** skin will be used.

Skins

Blue Black Purple

Green Red Yellow

Teal Blue Light Black Light

Purple Light Red Light Green Light

Yellow Light Teal Light

Powered by AdminFaces - © 2017-2019

4.1. Demo

A live demo is available on Openshift here: <http://admin-showcase-admin.1d35.starter-us-east-1.openshiftapps.com/showcase>

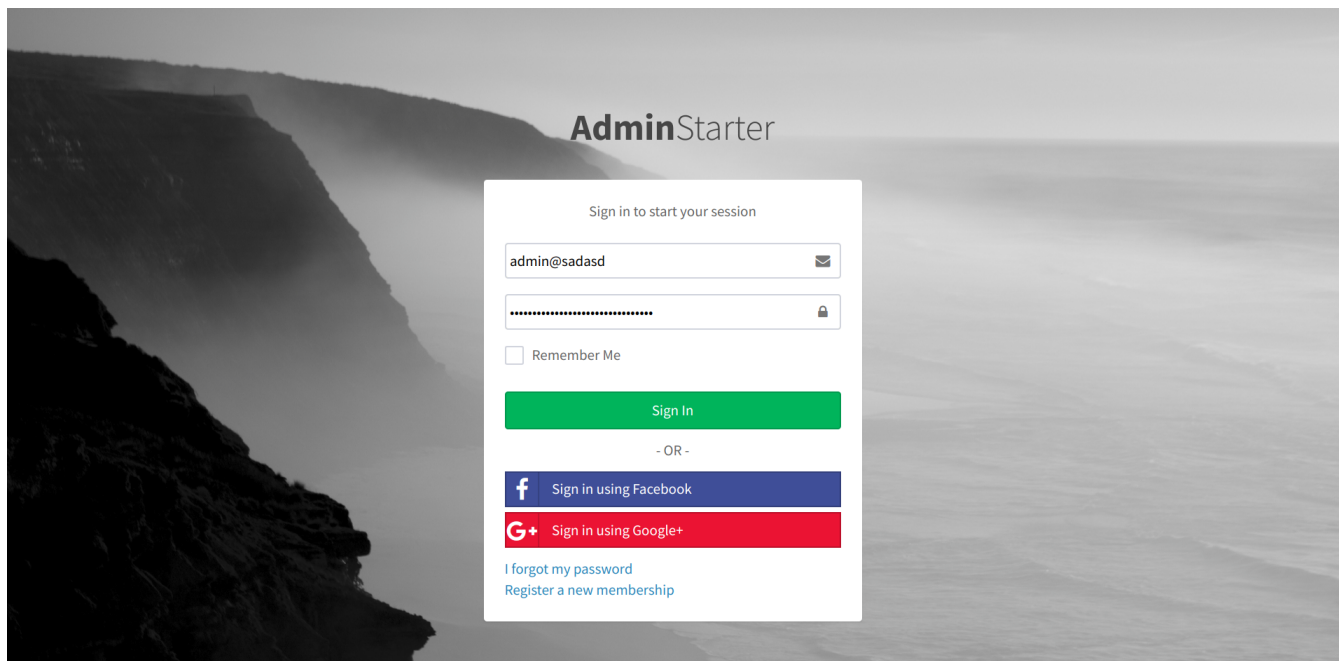
Chapter 5. Admin Starters

Admin Starters are sample projects to get you started with AdminFaces. Following are current starters, access their github [README](#) for running instructions:

- [Admin Starter](#): The default starter is a simple JavaEE 6(+) application without any persistence layer. You can run it on a JavaEE 6 or newer server and also in [wildfly-swarm](#).
- [Admin Starter Persistence](#): Admin Starter application with persistence layer based on Apache DeltaSpike Data module via [Admin Persistence](#);
- [Admin Starter Tomcat](#): Admin Starter application for Tomcat;
- [Admin Starter SpringBoot](#): Admin Starter application using [SpringBoot](#) and [JoinFaces](#).
- [Admin Starter Shiro](#): Admin Starter application using [Apache Shiro](#) for authentication.
- [Admin Starter Security](#): Admin Starter application using [JavaEE 8 security API](#) for authentication and authorization.
- [Admin Starter Spring Security](#): Admin Starter application using [SpringBoot](#), [JoinFaces](#) and [Spring Security](#).



Most starters have maven archetypes ([see here](#)) and images published on docker hub so you can easily see them working locally.



5.1. Demo

A live demo is available on Openshift here: <http://admin-starter-admin.1d35.starter-us-east-1.openshiftapps.com/admin-starter/>

Chapter 6. Admin Designer

The aim of [Admin Designer](#) is to make it easier to customize Admin theme and Admin Template.

6.1. What is it?

This is the same [Admin Showcase](#) application with `admin template` and `admin theme` bundled inside instead of being project dependencies.

It uses [Wildfly Swarm](#) to run the `exploded` application so one can change the theme or template and see the modifications without needing to restart the application.

6.2. Objectives

The initial idea was to speed AdminFaces development but it turns out that it can easy `contributions` from non Java developers (like designers and frontend developers) as the project is about front end components and layout.

Also another great feature of Admin Designer is the possibility to **download the customized project** as a maven project.



The downloaded project is the [Admin Starter](#) with modified admin theme and template embedded in the project.



This is the most flexible approach but at the same time `you lose the updates on Admin Theme and template projects` because you don't depend on them anymore.

6.3. How it works

In application root directory:

1. First start the application by running the command:

```
./mvnw wildfly-swarm:run (or mvnw.cmd wildfly-swarm:run)
```

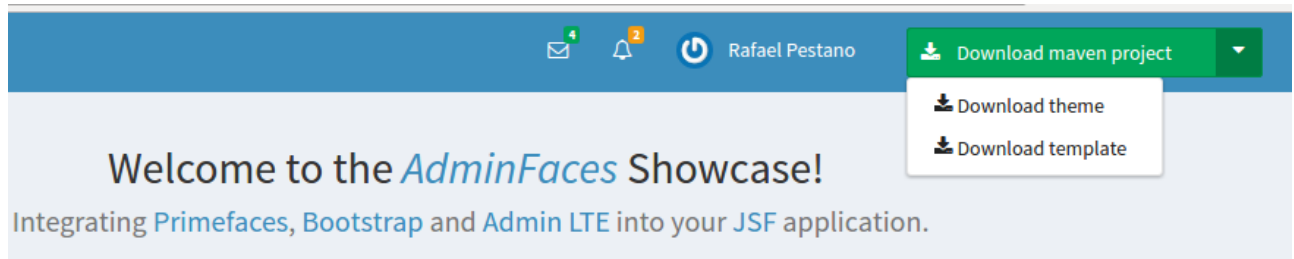
2. Second edit any less file in directory `src/main/resources/less`.
3. Now to compile the application using:

```
./mvnw compile (or mvnw.cmd compile)
```



If you don't want to compile every time you change a less file, use the flag `-Dlesscss.watch=true`. Or use a tool like [brackets](#) with [less extension](#) installed.

4. Finally when you're done you can download the customized **theme** and **template** as a **sample maven project** or as separated jar files;



The changes made to less files should be visible in running application <http://localhost:8080/showcase>



There is no need to stop and run the application again.

You can see this workflow in the following video: <https://youtu.be/X1UEpN942s0>

Chapter 7. Admin Persistence

The [Admin Persistence](#) module aims to simplify CRUD operations on AdminFaces applications.



It actually works without AdminFaces.

7.1. Prerequisites

This module depends on [JSF](#), [CDI](#) and [JPA](#) and was tested with respective implementations and versions:

| JSF | CDI | JPA |
|-------------|--------------------|-----------------|
| Mojarra 2.2 | Weld 2.3 | Hibernate 5.0 |
| Mojarra 2.2 | Weld 2.2 | Hibernate 4.3 |
| MyFaces 2.1 | OpenWebBeans 1.7.4 | Eclipselink 2.6 |

7.2. Usage

Following are the steps you need to follow in order to use [Admin Persistence](#):

1. Classpath

First include it in your classpath:

```
<dependency>
  <groupId>com.github.adminfaces</groupId>
  <artifactId>admin-persistence</artifactId>
  <version>1.0.0</version>
</dependency>
```

Admin persistence will bring the following transitive dependencies:



```
<dependency>
  <groupId>org.primefaces</groupId>
  <artifactId>primefaces</artifactId>
  <version>6.2</version>
</dependency>

<dependency>
  <groupId>org.apache.deltaspikes.core</groupId>
  <artifactId>deltaspikes-core-impl</artifactId>
  <version>1.8.0</version>
</dependency>

<dependency>
  <groupId>org.apache.deltaspikes.core</groupId>
  <artifactId>deltaspikes-core-api</artifactId>
  <version>1.8.0</version>
</dependency>

<dependency>
  <groupId>org.apache.deltaspikes.modules</groupId>
  <artifactId>deltaspikes-data-module-api</artifactId>
  <version>1.8.0</version>
  <scope>compile</scope>
</dependency>

<dependency>
  <groupId>org.apache.deltaspikes.modules</groupId>
  <artifactId>deltaspikes-data-module-impl</artifactId>
  <version>1.8.0</version>
  <scope>compile</scope>
</dependency>
```

Of course you can override them in your pom.xml as needed.

2. JPA Metamodel

As Admin Persistence uses [DeltaSpike typesafe criteria](#) you'll need to generate JPA metamodel. There are various ways to do that, here is a maven plugin example:

```

<plugin>
  <groupId>com.mysema.maven</groupId>
  <artifactId>apt-maven-plugin</artifactId>
  <version>1.1.3</version>
  <executions>
    <execution>
      <id>metamodel</id>
      <goals>
        <goal>process</goal>
      </goals>
      <configuration>
        <outputDirectory>target/generated-
sources/metamodel</outputDirectory>
        <processor>
org.hibernate.jpamodelgen.JPAMetaModelEntityProcessor</processor>
        </configuration>
      </execution>
    </executions>
    <dependencies>
      <dependency>
        <groupId>org.hibernate</groupId>
        <artifactId>hibernate-jpamodelgen</artifactId>
        <version>4.3.8.Final</version>
      </dependency>
    </dependencies>
  </plugin>

```



See [this tutorial](#) for configuring it on your IDE.

3. Entity Manager

Admin persistence needs an exposed **entity manager** as CDI Bean, you can do that by using a CDI producer:

```

@ApplicationScoped
public class EntityManagerProducer {

    @PersistenceContext
    EntityManager em;

    @Produces
    public EntityManager produce() {
        return em;
    }
}

```

4. Persistence Entity

Every JPA entity must be typed as a **PersistenceEntity**, it is an interface with only a method, `getId()`:

```
import com.github.adminfaces.persistence.model.PersistenceEntity;

@Entity
@Table(name = "car")
public class Car implements PersistenceEntity {

    @Override
    public Integer getId() {
        return id;
    }

}
```



You can **extend BaseEntity** to gain `equals()`, `hashCode()` and `toString()`.

5. Service layer

Now to create a service which will hold your business logic you need to extend **CrudService**:

```
@Stateless
public class CarService extends CrudService<Car, Integer> {

}
```



Full source code for CarService can be [found here](#).



For some examples of CrudService usage [see integration tests here](#).

6. Controller

Finally on the controller layer (JSF managed beans) you need to extend **CrudMB** which will enable CRUD support for your JSF pages:

```

@Named
@ViewScoped
public class CarListMB extends CrudMB<Car> implements Serializable {

    @Inject
    CarService carService;

    @Inject
    @Service
    CrudService<Car, Integer> crudService; //generic injection

    @Inject
    public void initService() {
        setCrudService(carService); ①
    }

}

```

① Needed by CrudMB otherwise it will throw an exception asking for CrudService initialization.



You can use **@BeanService** annotation (since 1.0.0-RC9) to provide CrudService:

```

@Named
@ViewScoped
@BeanService(CarService.class)//use annotation instead of setter
injection
public class CarListMB extends CrudMB<Car> implements Serializable {

}

```



Full source code for CarListMB can be [found here](#).

7.3. Pagination

Real pagination involves lots of boilerplate code, in admin-persistence it is a matter of using a Primefaces lazy datatable and bind it to the CrudMB **list** variable:

xhtml page

```

<p:dataTable widgetVar="carsTable" var="c" value="#{carListMB.list}"
    rows="5" rowKey="#{c.id}"
    lazy="true" paginator="true"
    <!-- other attributes -->

```




Full source code for this xhtml page can be [found here](#).

7.4. Pagination filtering

For filtering on the lazy datatable you just need to override `configRestrictions` method in the managed bean's service (the service we set with `setCrudService` in `CarListMB`) and add your restrictions based on a filter:

CarService

```
protected Criteria<Car, Car> configRestrictions(Filter<Car> filter) {

    Criteria<Car, Car> criteria = criteria();

    //create restrictions based on parameters map
    if (filter.hasParam("id")) {
        criteria.eq(Car_.id, filter.getIntParam("id"));
    }

    if (filter.hasParam("minPrice") && filter.hasParam("maxPrice")) {
        criteria.between(Car_.price, filter.getDoubleParam("minPrice"), filter
.getDoubleParam("maxPrice"));
    } else if (filter.hasParam("minPrice")) {
        criteria.gtOrEq(Car_.price, filter.getDoubleParam("minPrice"));
    } else if (filter.hasParam("maxPrice")) {
        criteria.ltOrEq(Car_.price, filter.getDoubleParam("maxPrice"));
    }

    //create restrictions based on filter entity
    if (has(filter.getEntity())) {
        Car filterEntity = filter.getEntity();
        if (has(filterEntity.getModel())) {
            criteria.likeIgnoreCase(Car_.model, "%" + filterEntity.getModel());
        }

        if (has(filterEntity.getPrice())) {
            criteria.eq(Car_.price, filterEntity.getPrice());
        }

        if (has(filterEntity.getName())) {
            criteria.likeIgnoreCase(Car_.name, "%" + filterEntity.getName());
        }
    }
    return criteria;
}
```

`filter.params` is a hashmap used to add arbitrary parameters and `filter.entity` is for entity specific ones, see [search dialog](#) which populates those attributes:

```
<div class="ui-g-12">
  <p:outputLabel for="model" value="#{msg['label.model']}"/>
</div>
<div class="ui-g-12">
  <p:selectOneMenu id="model" value=
#{carListMB.filter.entity.model}>
    <f:selectItem itemLabel="Chose a model" itemValue=""/>
    <f:selectItems value="#{models}" var="m" itemLabel=
#{m}
                                itemValue="#{m}"/>
  </p:selectOneMenu>
</div>
<div class="ui-g-12">
  <p:outputLabel for="name" value="#{msg['label.name']}"/>
</div>
<div class="ui-g-12">
  <p:inputText id="name" value=
#{carListMB.filter.entity.name}/>
</div>

<div class="ui-g-6 ui-sm-12 ui-g-nopad">
  <div class="ui-g-12">
    <p:outputLabel for="min" value=
#{msg['label.minPrice']}/>
  </div>
  <div class="ui-g-12">
    <p:inputNumber id="min" value=
#{carListMB.filter.params.minPrice}/>
  </div>
</div>

<div class="ui-g-6 ui-sm-12 ui-g-nopad">
  <div class="ui-g-12">
    <p:outputLabel for="max" value=
#{msg['label.maxPrice']}/>
  </div>
  <div class="ui-g-12">
    <p:inputNumber id="max" value=
#{carListMB.filter.params.maxPrice}/>
  </div>
</div>
</div>
```



Any datatable update (ajax or not) will trigger the `configRestrictions`.



Besides filtering the `filter` helper class also holds **pagination** and **sort** information.

By default filters are saved on `Session` so when user goes to another page (e.g a detail) and comes back to list the tables keeps it's previous filters.

You can change this behavior by overriding `keepFiltersInSession` method on your Bean:



CarListMB

```
@Override
public boolean keepFiltersInSession() {
    return false;
}
```

7.5. Sample application

For an example project using Admin Persistence see [admin-starter-persistence](#).

Chapter 8. Admin Mobile

Admin Mobile is a simple [Android Studio](#) project which uses [Webview](#) to create an [hybrid web app](#) based on Admin Showcase.



The app is a proof of concept to check AdminFaces user experience in mobile apps. The following behaviours will be enabled only on this kind of devices:

- Loading bar based on google material design;
- Go to top link at the bottom right corner of the page;
- Larger icons on panel, dialog and messages;
- Some components like growl, tabview and datatable are optimized for mobile devices;
- Ripple/waves effect based on [materialize](#);
- Slideout menu

[dd37121e 2296 11e7 855c 8f20b59dcf5f]