

Ulбора CMS Installation

Introduction:

Ulбора CMS is a Java based API for building websites. It is built on Spring Framework version 3 and uses Spring MVC as the REST service layer. Ulбора CMS uses Hibernate as the ORM and JPA as the persistence layer. UlбораCMS has build-in CORS (Cross-Origin Resource Sharing) support. Ulбора CMS uses Spring Security as the security layer for basic authentication on REST services. Ulбора CMS uses JSON as the data-interchange format.

Ulбора CMS *responsive HTML5 templates* supplied by the team are all built with *Google's AngularJS* JavaScript MVC framework and *Twitter's Bootstrap*. Templates can, however, be built with any web technology or programming language. For example, templates could be built with any JavaScript MVC framework or any web MVC framework such as Spring MVC, CakePHP or Ruby on Rails.

UlбораCMS uses *MicButton* (pronounced Mike Button) *Challenge* as a challenge and response system for the *registration form and the forgotten password form*. *MicButton Challenge* is a free JSON REST web service from MicButton.com.

Deployment Target:

API (REST Services)

Ulбора CMS API can be deployed to any Java web server like Apache Tomcat or others. The Java web server can be a private server, a Private Cloud or a Public Cloud provider like CloudBees or Red Hat's OpenShift.

UlбораCMS is designed to use MySQL as the database but can be modified to use any relational database system. Most Cloud Providers offer MySQL options.

Templates

Ulбора CMS templates are the website portion of Ulбора CMS. Templates are nothing more than *HTML5, JavaScript, and CSS3*. Templates can be deployed to any web server and can run anywhere. Domain names should be mapped by the domain owner to where the template is deployed.

Database Installation:

The first step when installing UlбораCMS is to install the database and build credentials. Download the UlбораCMS database SQL file and unzip it on your local drive. Refer to your Cloud Provider's instructions on how to install a database. Write down the database credentials because you will need to add them to the Ulбора CMS properties file later.

Install the API:

There are two ways to install Ulбора CMS API. The first way is to install the war file binaries. The second way is to build the war file yourself and deploy that.

Deploy the War File

Follow figure 1 and modify the property file to the correct database, mail server, email address and mail message configurations.

Once this file has been modified, deploy the war file according to your provider's instructions.

Build the War File and Deploy

If you would prefer, you can build the war file yourself. Ulbora CMS is a Maven project and the source zip file is a packaged NetBeans project. You can also get the source from the SourceForge GIT code repository.

Once you have the development environment set correctly, just follow figure 1 and modify the property file.

Once this file has been modified, build and deploy the war file according to your provider's instructions.

Figure 1:

file: /WEB-INF/properties/siteProperties.properties

```
jdbc.api.database.driverClassName=com.mysql.jdbc.Driver
jdbc.api.provider=mysql
jdbc.api.host=localhost
jdbc.api.port=3306
jdbc.api.database=ulboracms

#jdbc.api.database.username=root
jdbc.api.database.username=ulbora
jdbc.api.database.password=password


jdbc.api.database.initialSize=5
jdbc.api.database.maxActive=5
jdbc.api.database.maxIdle=5
jdbc.api.database.minIdle=5
jdbc.api.database.testOnBorrow=true
jdbc.api.database.validationQuery=select count(*) from article


mail.sender.smtp.server=mail.mysite.com
mail.sender.smtp.port=2626
mail.sender.sender.from.email=system+mysite.com
mail.sender.sender.password=password
```

```
email.from.email=system@mysite.com
email.notification.email=registration@mysite.com
email.thanks.subject=Thanks for registering at UlboraCMS.com
email.activation.subject=Ulboracms.com Activation
email.activation.link.message=Thanks for using Ulboracms.org. You can activate your account by
clicking
email.activation.fail.message=Activation was successful
email.activation.success.message=Activation failed
email.access.account.message=Access your account at
email.access.account.link=http://www.somesite.com/
email.access.account.name=Somesite.com
email.access.success.color=green
email.access.fail.color=red
email.access.success.message=Activation was successful
email.access.fail.message=Activation failed
email.password.reset.subject=Password Reset
email.password.reset.message=Your new password is:
```

```
file.upload.sead=uR44yT3
```

```
proxy.micbutton.challenge.url=http://micbuttonchallengeapi.micbutton.cloudbees.net/rs/
```

Install the Website Templates:

Template zip files contain the AngularJS templates packaged in a NetBeans web application to make customization and testing easy. All the site files are under the project web folder as shown in figure 2. The content of the web directory is the entire website content. The content of the web directory can be deployed to any web server after making the modifications in figure 3.

There are two different templates, the site template and the Admin template.

Once you have customized the templates according to your needs, follow figure 3 to point the template to your newly installed Ulbora CMS API.

1. Modify `siteUrl` to point to your API
2. Modify `clientId` to point to your website (example: `http://www.micbutton.com`)

Figure 2:

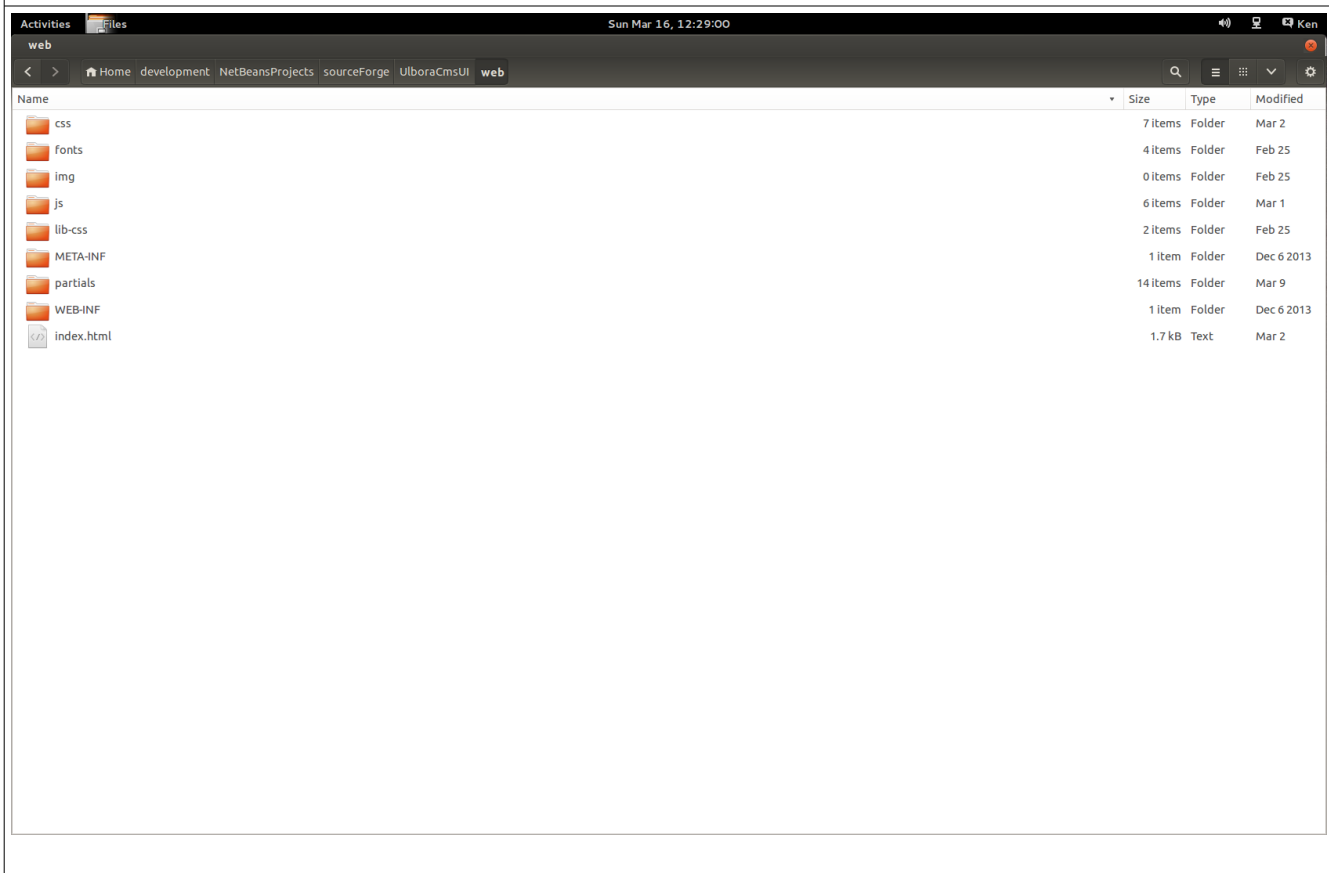


Figure 3:

file: js/configuration.js

```
var siteUrl = "http://localhost:8080/UlboraCMSAPI/rs/";
var clientUrl = "http://localhost:8080/UlboraCmsUI";
var challengeUrl = "http://micbuttonchallengeapi.micbutton.cloudbees.net/rs";

var spinOps = {
  lines: 10, // The number of lines to draw
  length: 10, // The length of each line
  width: 4, // The line thickness
  radius: 8, // The radius of the inner circle
  corners: 0, // Corner roundness (0..1)
```

```
rotate: 0, // The rotation offset
direction: 1, // 1: clockwise, -1: counterclockwise
color: 'red', //'#0000f1', // #rgb or #rrggbb or array of colors
speed: 1, // Rounds per second
trail: 60, // Afterglow percentage
shadow: false, // Whether to render a shadow
hwaccel: false, // Whether to use hardware acceleration
className: 'spinner', // The CSS class to assign to the spinner
zIndex: 2e9, // The z-index (defaults to 2000000000)
top: 'auto', // Top position relative to parent in px
left: 'auto' // Left position relative to parent in px
};
```

Conclusion:

Once you have followed the steps above and installed the API, the admin template and the website template, you are ready to log into Ulbora CMS.

To log into the system, use the following credentials and **immediately replace them** with your own private credentials.

Username: admin

Password: admin

Please do not leave the default credentials active as it would be a **major security issue**.

After creating private credentials, **remove username admin**.