

# Building a Website with Ulbora CMS

By Ken Williamson  
Ulbora CMS Architect

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Ulbora CMS is changing the way website developers build websites. Ulbora CMS uses cutting edge technologies like Google's AngularJS to quickly build sites that use content provided by REST web services. Sites can be built and deployed in hours with AngularJS and Ulbora CMS.

This tutorial will show how to configure and deploy Ulbora CMS to a Tomcat server running on your *local system*. A *later* tutorial will show how to *deploy* Ulbora CMS to the *Cloud*.

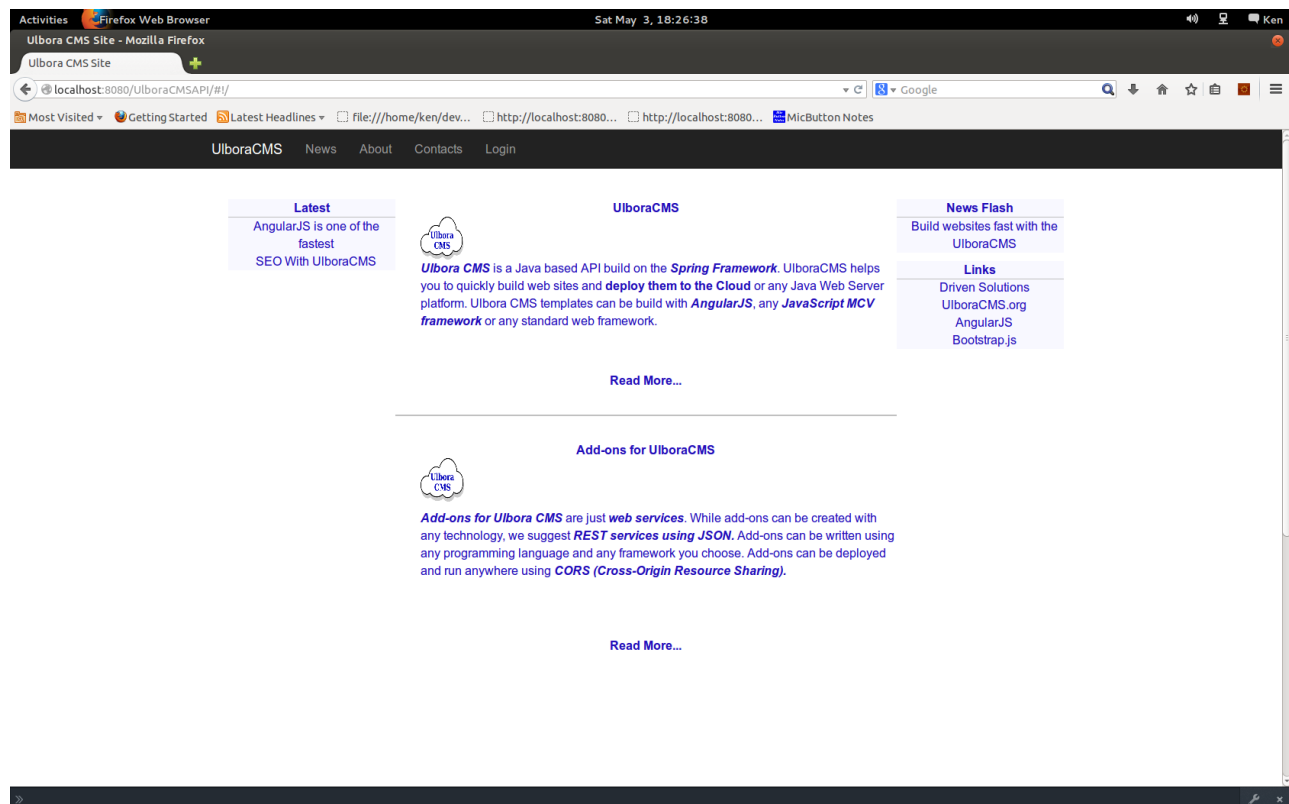
## Setting up your environment:

*(You can skip this section if you already have Tomcat and MySql and a database management tool installed on your system)*

1. Download and install (follow the instructions provided by Apache) Tomcat [here](#)
2. Download and install MySql [here](#)
3. Download and install the JDBC driver for MySql [here](#)
4. Install database management software (PhpMyAdmin, NetBeans, DbVisualizer or some other)

## Installing Ulbora CMS

1. Download the Ulbora CMS Combined war file [here](#)
2. Download the database file [here](#)
3. Unzip the Ulbora CMS sql zip file
4. Run the Ulbora CMS sql file downloaded above in your database management software to create the database
5. Set permissions for the newly created database and **record the username and password**
6. Unzip the Ulbora CMS binary zip file to a separate directory
7. Navigate to the folder that contains the war file (UlboraCMSAPI.war)
8. Open the war file and navigate to /WEB-INF/properties/ and edit the siteProperties.properties file with the new database username and password
  - A) jdbc.api.database.username=yourUsername
  - B) jdbc.api.database.password=yourPassword
9. Copy the edited war file to Tomcat's webapps directory
10. Start Tomcat
11. The application will be automatically deployed
12. Start a browser (Firefox, Chrome or IE10 or greater)
13. Enter this url: <http://localhost:8080/UlboraCMSAPI>
14. You should see the screen below:



## Using Ulbora CMS to build a site:

1. Navigate to: <http://localhost:8080/UlboraCMSAPI/admin>
2. Login with
  - A) username: admin
  - B) password: admin
3. Click on “Articles”
4. Click on “New” to enter a new article
5. Click on “Upload” to upload a pdf file
6. Select the “Section” and “Category” for the article
7. Select the “Location” (the section of the page where the article will appear)
8. Once completed, set the article to “published”
9. Follow the next section to determine the page on which the article will appear

## Adding Sections and Categories to a page:

New sections and categories are added to a page by editing the “postData” JSON request in the js/controllers.js file. See figure 1:

Figure 1 (excerpt from js/controllers.js)

```
function MainCtrl($scope, checkCreds, $location, $http, getToken, DateUtil, Content, $sce) {
    $scope.brandColor = "color: white;";

    if (checkCreds() === true) {
        $scope.loggedIn = true;
    } else {
        $scope.loggedIn = false;
    }

    $http.defaults.headers.common['Authorization'] = 'Basic ' + getToken();
    var postData = {
        "frontPage": true, //display all articles marked set for “Front Page”
        "links": true, // display any links configured in links section
        "articles": true,
        "products": false,
        "searchFilter": [
            { // only show MainPage - Latest News articles
                "sectionName": "MainPage", // add MainPage to this page
                "categoryName": "Latest News" // narrow down the articles to Latest News
            },
            { // also show Breaking News - Latest Product News articles
                "sectionName": "Breaking News", // add Breaking News to this page
                "categoryName": "Latest Product News" // narrow articles to Latest Product News
            },
            { // also show News section articles
                "sectionName": "News",
                "categoryName": null
            }
        ]
    };
};
```

The JSON list “searchFilter” takes a list of JSON objects containing **sectionName** and **categoryName**.

Adding or removing sections and categories is as easy as adding or removing new values to searchFilter JSON list.

## Viewing the article

Once you complete the above steps, the new article should appear on the page or pages configured above. It's that simple.

Later tutorials will cover *deploying* Ulbora CMS to the *Cloud* and building *custom templates* with AngularJS.