

# Web Technologies Usage

## Client Site

**iPhone-iPad**

**XAMPP on Windows 10**

**LAMPP on Ubuntu Desktop**

**Laravel/PHP/Eloquent/MariaDB/Apache**

**Spring MVC/Java**

**Eclipse IDE to code in Java**

**Atom to code in PHP/JS/CSS/HTML**

## Server Site

**Centos Linux 7 Server**

**MariaDB SQL Server**

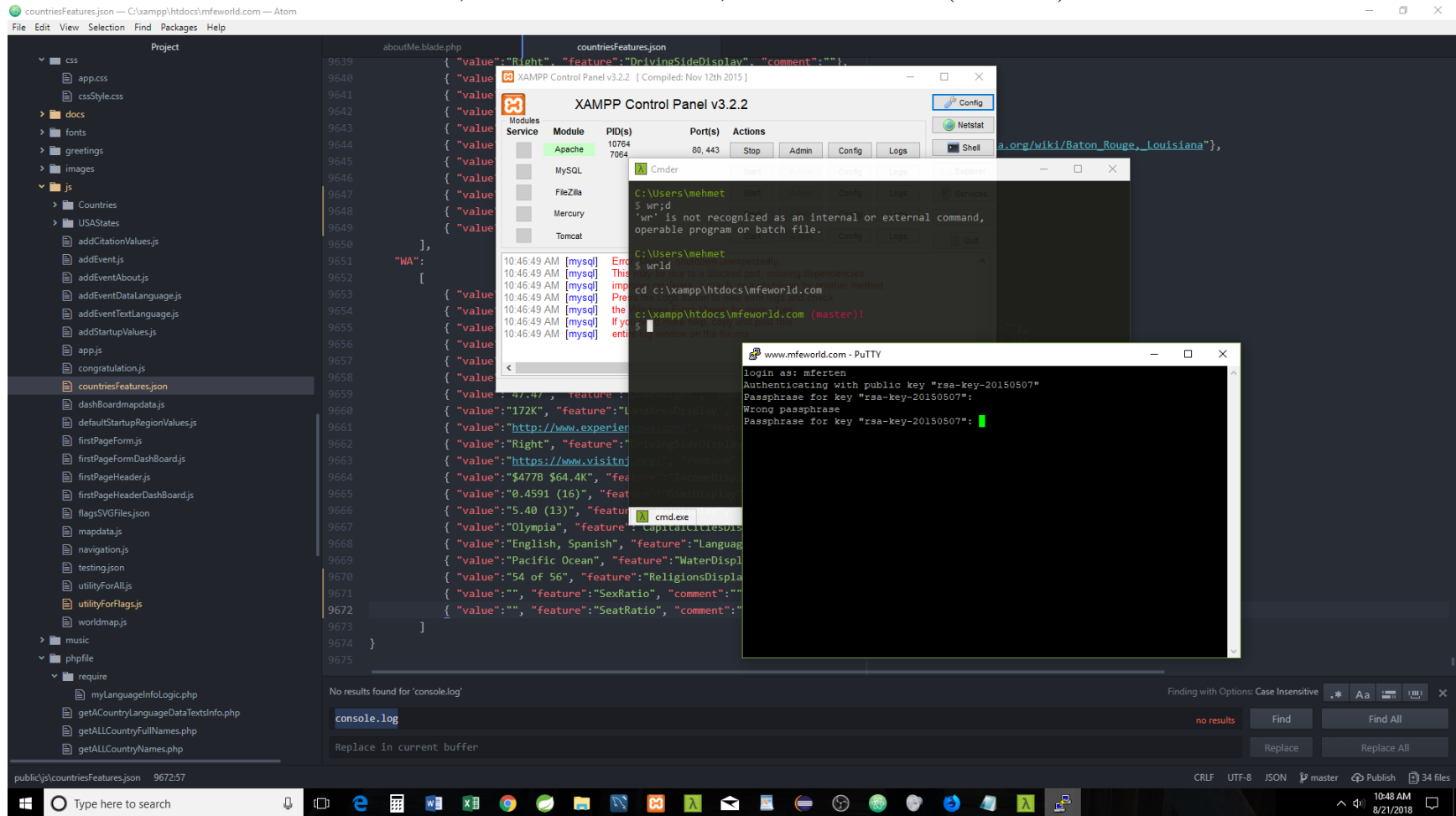
**Apache Web Server**

**Tomcat Java Servlet Container**

**iRedMail Mail Server**

**Git and GitHub is integrated with the development  
(CSCI E-15 heritage)**

## Atom, XAMPP Control Panel, Cmdr and PuTTY (Windows)



## Firefox Developer Edition and

# eWorld Regional

**Africa Asia Europe North America Oceania South America**

[Pause](#)
[USA-English](#)

## Mexico

**Map**

Language Spanish

Population 129.16M

Religion Christianity

Surface Area 1.96M km<sup>2</sup>

Income \$1T \$8981

Overweight 64.9%

Life 76 F79 M74

eWorld Capital Cities Mexico City

Codes MX MEX 52 MX

Currency Peso MXN

Water Pacific Ocean...

Sex Ratio 99.2

Seat Ratio 42.6%

Development 0.762 high

Equality 48.2

Coahuila  
State description

**Made a difference**

**Children**

**Music**

**People**

**Animals**

**Shopping**

**Food**

**Liveability**

**Driving Side** Right

**Potable Water** 94.65%

**Clean Restroom** 81.25%

**Cell Phone** 85.3

**R&D** 0.5% GDP

**Internet** 57.4%

**Travel Warning**

**Date & Time**

**Google Map**

**Government**

**Tourism**

**Weather**

**Wiki**

**CIA**

**UN**

### Menu

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The image shows the Visual Studio Code interface with the SVG editor open. The top toolbar includes icons for Explorer, Inspector, Console, Debugger, and Style Editor. The main editor area displays the SVG code for a diagram. The code defines a 'sm' state machine with various states and transitions. The bottom panel shows the 'Properties' view for the selected 'div' element, including 'Filter Styles', 'Layout', 'Computed', 'Changes', 'Animations', and 'Flexbox' tabs. The 'Flexbox' tab is active, showing properties like 'display: flex', 'flex-direction: row', and 'flex-wrap: wrap'.

# Google Chrome are in use

## eWorld Regional

Africa Asia Europe North America Oceania South America



Anguilla Antigua Bahamas Barbados Belize Bermuda Bonaire BVI Cayman Costa Rica Cuba Curaçao Dominica Dominican El Salvador Greenland Grenada Guadeloupe

Guatemala Haiti Honduras Jamaica Martinique Mexico Montserrat Nicaragua Panama Puerto Rico Barthélemy St Kitts St Lucia St Martin St Pierre St Vincents St Maarten Trinidad Turks Caicos

USA USVI

Pause ⓘ

Canada USA-English ▼

[Map](#) [Made a difference](#) [Children](#) [Music](#) [People](#) [Animals](#) [Shopping](#) [Food](#) [Liveability](#)

Language English...  
Population 36.62M  
Religion Christianity  
Surface Area 9.98M km<sup>2</sup>  
Income \$1.55T \$43000  
Overweight 64.1%  
Life 82 F84 M80  
eWorld Capital Cities Ottawa  
Codes CA CAN 1 CA  
Currency Dollar CAD  
Water Pacific...  
Sex Ratio 98.5  
Seat Ratio 26.3%  
Development 0.92 high  
Equality 32.1

Driving Side Right  
Potable Water 99.5%  
Clean Restroom 99.5%  
Cell Phone 81.9  
R&D 1.6% GDP  
Internet 88.5%  
Travel Warning  
Date & Time  
Google Map  
Government  
Tourism  
Weather  
Wiki  
CIA  
UN



Nunavut  
Greetings From Nunavut, How you're doing?

Elements Console Sources

```
9999999998,463.71746.599999999998,468.8226
25.899999999999,487.21626.099999999999,496
81.638.399999999999,498.480000000000,512.632
099999999999,588.11631.399999999999,582.61
628.599999999999,582.31624.099999999999,49
9.71623.699999999999,499.31623.4,497.11625
9,497.200000000000,527.39.899999999999,459
91.748.599999999999,468.599999999999,71.748.1
999999999999,461.999999999999,461.742.49999999
99999,462.499999999999,461.741.999999999999,4
63.799999999999,51.730.499999999999,462.4099
999999999999,461.738.599999999999,463.8999999999
9971.737.099999999999,462.299999999999,51.737
.599999999999,468.7999999999
200000000000,1.78.299999999999,1.490.30000000
0000,1.78.899999999999,1.488.300000000000,1.80
399999999999,1.485.000000000000,1.80.29999999
99991.476.800000000000,1.83.099999999999,1.47
4.900000000000,1.81.399999999999,1.473.900000
000000,1.78.299999999999,1.475.500000000000
7.75.799999999999,1.477.600000000000,2.76.999
999999999999,1.478.300000000000,2.75.5999999999
991.476.100000000000,2.74.099999999999,1.475
600000000000,2.72.899999999999,1.478.60000000
0002,70.599999999999,1.488.100000000000,2.67
699999999999,1.484.300000000000,2.66.19999999
99991.484.600000000000,2.66.899999999999,1.487
300000000000,2.66.499999999999,1.482.1000000000
0002,64.799999999999,1.481.200000000000,2.65.8
999999999999,1.479.600000000000,2.66.3999999999
99981.477.200000000000,2.68.299999999999,1.473
.500000000000,2.71.999999999999,1.471.00000000
0002,69.899999999999,1.471.100000000000,2.69
.399999999999,1.475.100000000000,2.64.99999999
999991.474.200000000000,3.64.099999999999,1.47
1.400000000000,2.62.699999999999,1.470.1000
000000,2.64.899999999999,1.478.400000000000
026,66.299999999999,1.468.300000000000,2.66.9
999999999999,1.467.900000000000,2.65.3999999999
99991.465.700000000000,3.64.399999999999,1.466
700000000000,3.61.099999999999,1.469.10000000
0000,1.83.200000000000,1.469.600000000000
```

... #map #map\_holder #map\_inner svg path.sm\_state\_NU

Styles Event Listeners DOM Breakpoints Properties Accessibility

Filter :show .cls +

element.style {  
-webkit-tap-highlight-color: rgba(0, 0, 0, 0);  
opacity: 1;  
cursor: pointer;  
stroke-opacity: 1;  
stroke-linejoin: round;  
fill-opacity: 1;  
}

\*,:before, cssStyle.css:6  
\*,:after {  
box-sizing: inherit;  
}

\* cssStyle.css:2  
box-sizing: border-box

Filter Show all  
box-sizing content...  
color rgb(2...  
cursor pointer  
d path("M...  
display inline

Console What's New X

Highlights from the Chrome 71 update

Have suggestions to highlight a DOM

# The browsers help to code the responsive design interactively

## Chrome

The screenshot illustrates the Chrome DevTools interface for responsive design. The top toolbar includes a 'Toggle device emulation' icon. A dropdown menu is open, displaying various device emulations: Responsive, Galaxy S5, Pixel 2, Pixel 2 XL, iPhone 5/SE, iPhone 6/7/8 (selected), iPhone 6/7/8 Plus, iPhone X, iPad, and iPad Pro. The main browser window shows a website with a dark header, a navigation menu, and a main content area with a grid layout. The right sidebar shows the 'Elements' panel with the HTML structure of the page, the 'Styles' panel with CSS rules for the selected element, and the 'Console' panel.

The 'Elements' panel shows the following HTML structure:

```
<!doctype html>
<html lang="en">
  <head>...</head>
  <body class="gridBox">
    <!-- place holder -->
    <header>...</header>
    <main class="nestedFlexAbout">
      <aside class="aboutList">
        <h2 class="pBorder aboutCitationTitle">
          How it works?
        </h2>
        <ul>...</ul>
      </aside>
      <article id="middleFrame">
        <h2 class="pBorder aboutCitationTitle">
          Web Technologies
        </h2>
        <p class="pBorder">...</p>
        <p class="pBorder">...</p>
        <p class="pBorder">...</p>
        <p class="pBorder">...</p>
        <p class="pBorder">...</p>
        <p class="pBorder">...</p>
        <p class="tutorialVideo">...</p>
      </article>
      <aside class="aboutList">...</aside>
    </main>
    <nav id="id_Navigation" class="center" data-nav="aboutMe">...</nav>
    <footer class="center">...</footer>
  </body>
</html>
```

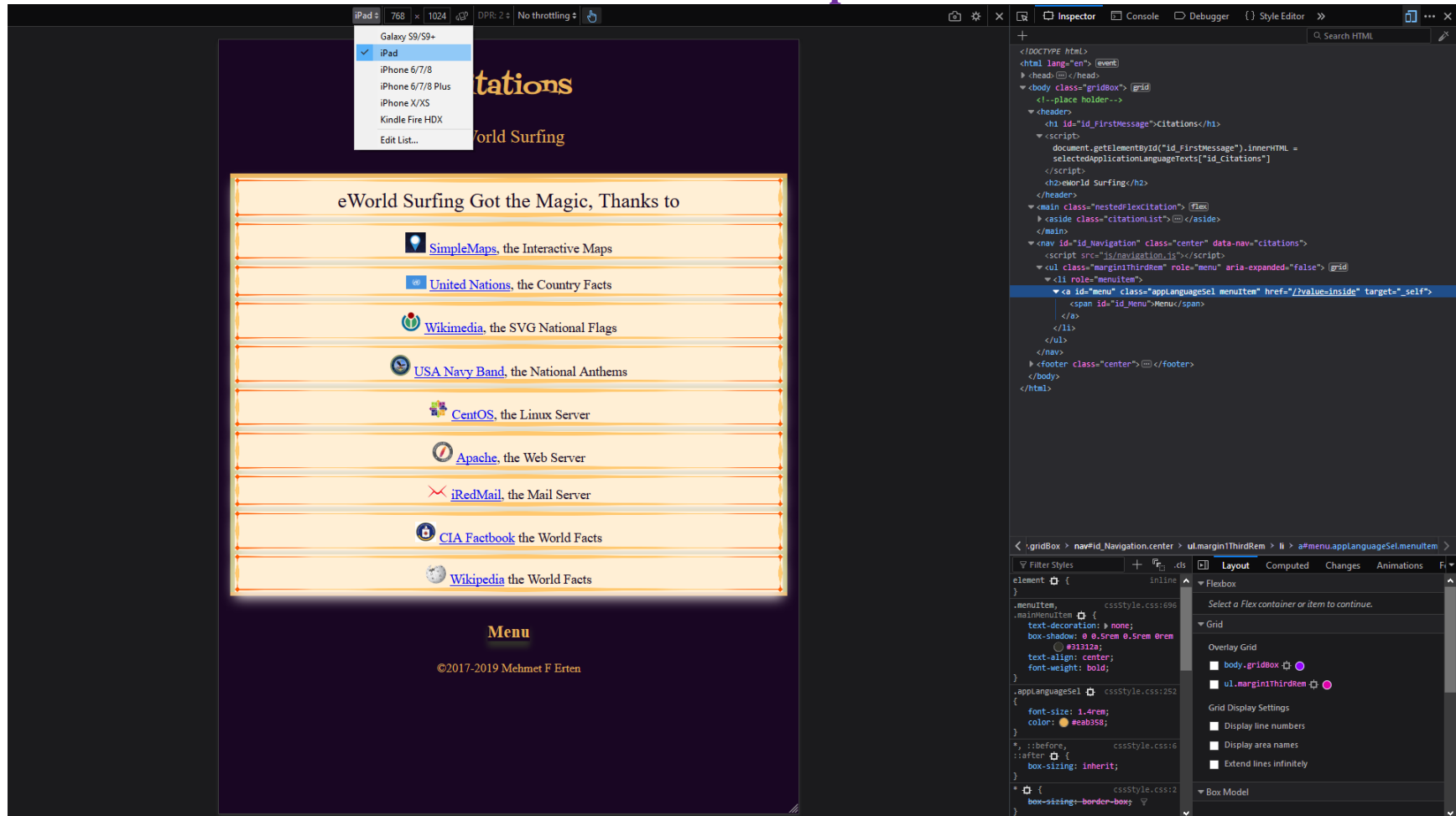
The 'Styles' panel shows the following CSS rules for the selected element:

```
element.style {
}
.gridBox {
  display: grid;
}
.gridBox, .gridBoxCountryList {
  margin: 0 auto;
}
body {
  background-color: #190623;
  color: #ffffff;
}
*, ::before, ::after {
  font-family: Times
```

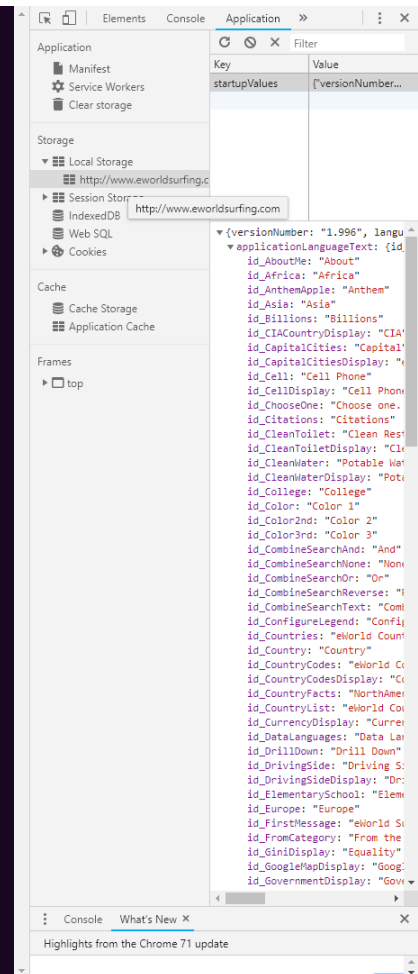
The 'Console' panel shows the following message:

```
Highlights from the Chrome 71 update
Have you seen the new... to highlight a DOM
```

## Firefox Developer



# Client Site Browser Local Storage is in use Chrome



## Firefox Developer Edition

The screenshot displays the Firefox Developer Edition interface. The main content area shows a web application titled "About eWorld Surfing". The application is structured into three columns: "How it works?", "Web Technologies", and "Internationalization (i18n)".

**How it works?**

- [eWorld Menu](#)
- [eWorld Regional](#)
- [eWorld Global](#)

**Web Technologies**

- www.mfeworld.com is a Web activity sand-box, a programming "boot-camp" and aims at being a community service while an educational web application.
- It is both client and server centric. The Web Browser's "local storage" is in use together with the PHP/Laravel/Eloquent and Java/Spring MVC/Hibernate web server features.
- CSS Grid Layout integrated with Flexbox.
- The internationalization (i18n) as the core of the community service has been designed not just for the Application Web Page Text language but the very Data language, too.
- The implementation of the Accessibility features is a gradual goal to accomplish.

**Internationalization (i18n)**

- [Application Text Language](#)
- [Application Data Language](#)
- [i18n Internationalization](#)

**Menu**

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The right sidebar shows the Storage Inspector (Cookies, Local Storage, ...) (Shift+F9). The "Session Storage" section is expanded, showing a table with the following data:

Key	Value
startupValues	["versionNumber":1.996,"language":"apLanguageToUseOption1","languageText":"USA-En..."]

The "Parsed Value" section shows the following JSON object:

```
{  "startupValues": {    "versionNumber": 1.996,    "language": "apLanguageToUseOption1",    "languageText": "USA-English",    "region": "NorthAmerica",    "isSoundOff": false,    "combine": "id_RadioCombineAndSearch",    "isReverse": false,    "startWith": "searching"  },  "applicationLanguageText": {    "id_Required": "required",    "id_World": "World",    "id_Africa": "Africa",    "id_Asia": "Asia",    "id_Europe": "Europe",    "id_Income": "Income",    "id_IncomeDisplay": "Income",    "id_DrivingSideDisplay": "Driving Side",    "id_DrivingSide": "Driving Side",    "id_WeatherDisplay": "Weather",    "id_SeatRatioDisplay": "Seat Ratio",    "id_WikiCountryDisplay": "Wiki",    "id_CIACountryDisplay": "CIA",    "id_TravelWarningDisplay": "Travel Warning",    "id_SexRatio": "Sex Ratio",    "id_SexRatioDisplay": "Sex Ratio",    "id_NorthAmerica": "North America",    "id_Oceania": "Oceania",    "id_SouthAmerica": "South America",    "id_Reports": "Reports",    "id_SeatRatio": "Seat Ratio",    "id_CallDisplay": "Call Phone"  }}
```

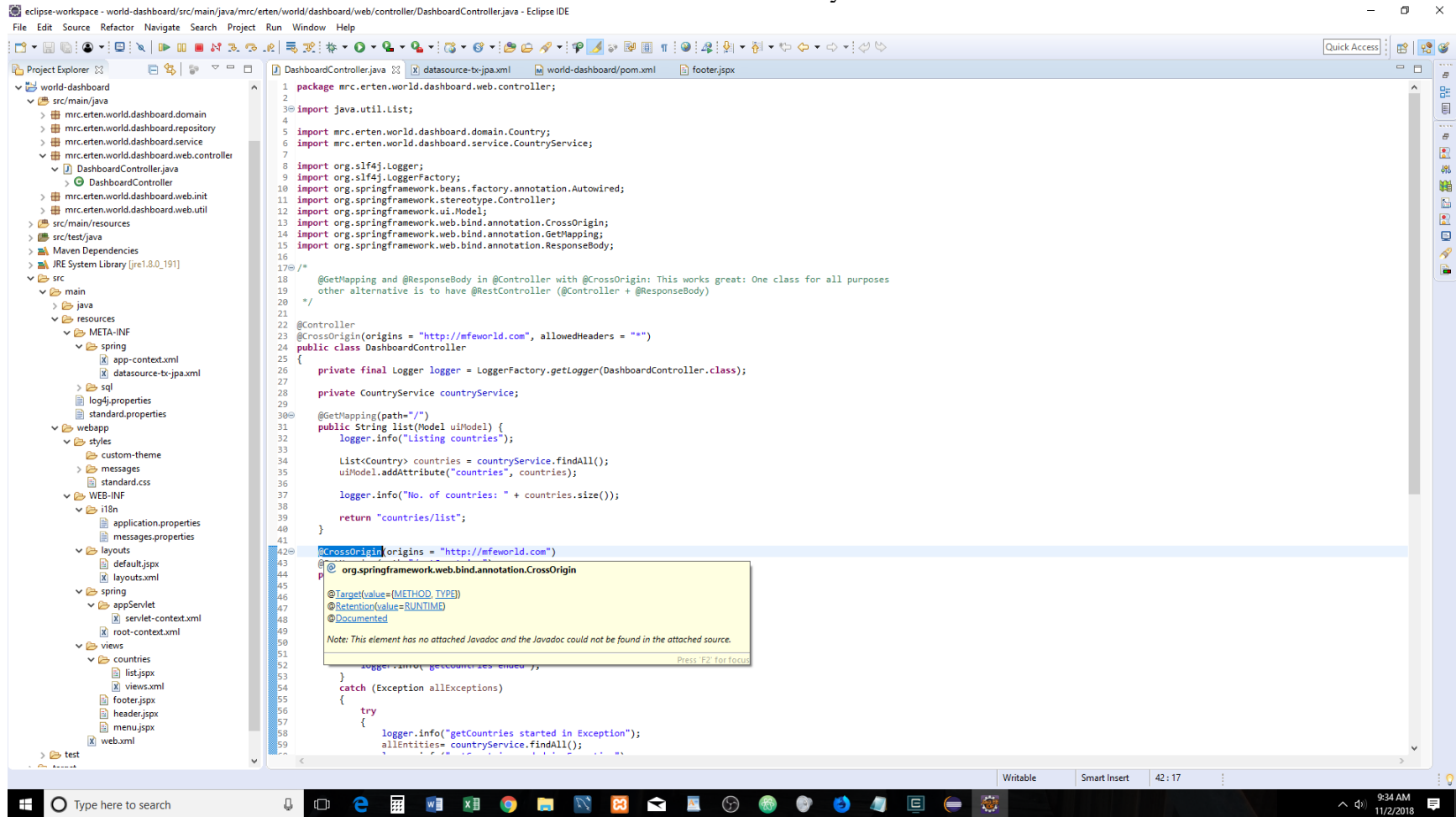
Spring MVC – Java/Eclipse and Tomcat will be used as a “Data and Logic” center

It will be available for the application if needed.

Tomcat/Spring MVC Java will be utilized as pure server operation: Data retrieval and data-processing (application logic) only



There will be no Java Web activities beyond the AJAX calls.



Spring MVC will handle the AJAX calls which manages Cross-origin resource sharing (CORS) very effectively and easily.



Apache Tomcat handles the Web and Ajax activities for Spring MVC-Java Server environment

## Apache Tomcat/9.0.12



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

[Server Status](#)

[Manager App](#)

[Host Manager](#)

### Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

### Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 9.0 access to the manager application is split between different users.

[Read more...](#)

[Release Notes](#)

[Changelog](#)

[Migration Guide](#)

[Security Notices](#)

### Documentation

[Tomcat 9.0 Documentation](#)

[Tomcat 9.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME/RUNNING.txt`

Developers may be interested in:

[Tomcat 9.0 Bug Database](#)

[Tomcat 9.0 JavaDocs](#)

[Tomcat 9.0 SVN Repository](#)

### Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)

Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)

User support and discussion

[taglibs-user](#)

User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)

Development mailing list, including commit messages

### Other Downloads

[Tomcat Connectors](#)

[Tomcat Native](#)

[Taglibs](#)

[Deployer](#)

### Other Documentation

[Tomcat Connectors](#)

[mod\\_jk Documentation](#)

[Tomcat Native](#)

[Deployer](#)

### Get Involved

[Overview](#)

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