BCH AJAX Plug-In Users' Guide

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List of Acronyms and Abbreviations

AJAX	Asynchronous JavaScript And XML
ASP	Active Server Pages
BCH	Biosafety Clearing-House
GEF	Global Environment Facility
NBCH	National BCH
PHP	PHP Hypertext Preprocessor
SCBD	Secretariat of the Convention on Biodiversity
UNEP	United Nations Environment Programme

INTRODUCTION TO THE MODULE

> **What you will learn:**
>
> **This training module describes in detail the guidelines about using Ajax Plug-in to develop and maintain a National BCH application**

Context:

The UNEP-GEF Project for Capacity Building for Effective Participation in the Biosafety Clearing House (BCH) is preparing a modular training package that aims to provide a practical "how-to" guide for countries to assist them in learning, understanding, using, and setting-up a national BCH. This training package dubbed as "BCH AJAX Plug-in Users' Guide" is designed to be flexible providing example applications in various platforms to meet diverse needs of different countries, thus, allowing them to select options that are useful and relevant to their situations, needs and resources.

Audience:

This module is designed to provide guidance to administrators and users of the NBCH application using the BCH AJAX Plug-In. It was developed for both technical and non-technical audiences who are responsible in administering, maintaining and accessing the NBCH application of respective countries.

Purpose:

This module describes in detail the guidelines and step by step process about using AJAX Plug-In for National BCH application.

SECTION 1. THE BCH AJAX PLUG-IN

What you will learn in this section:

- **Overview and description of BCH Ajax Plug-in**
- **Scope and functionalities of BCH Ajax Plug-in**

1.1 Overview of BCH AJAX Plug-in

The Secretariat to the Convention on Biological Diversity (SCBD) has developed an application tool called BCH AJAX Plug-in now at version ___ which is ready to be used by the countries as a national BCH application.   It is a lightweight JavaScript application based on AJAX technology that can be easily integrated to any website to allow dynamic display of information from the BCH Central Portal.

The use of the BCH AJAX Plug-In does not require any specific IT knowledge. The Plug-In works on all server platforms and does not require any software installation. All required files are located on the BCH Central Portal and maintained by the Secretariat.

 The BCH AJAX Plug-In is a client side application. The connection to the BCH Central Portal is made directly by the client (end-user).

1.2 Compatibility

 Although the BCH AJAX Plug-In is actually compatible with Internet Explorer 6+ and Mozilla Firefox 1.2+, the Secretariat fully supports the following versions:

- Internet Explorer 7.0

- Mozilla Firefox 2.0

Support for Apple Safari is under development. It must be noted also that support for JavaScript must be enabled for the BCH AJAX Plug-In to work.

1.3 Maintenance

The BCH AJAX Plug-In is fully supported and maintained by the Secretariat. As all files are located on the BCH Central Portal, there is no need for maintenance at the local level.

1.4 Integration

The BCH AJAX Plug-In has been designed to make its integration to any website as simple as possible. It can be integrated to any webpage by simply adding the following lines of HTML.

```
<script type="text/javascript" charset="utf-8"

src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js"></script>

<script type="text/javascript" charset="utf-8" >

GenerateRecords("focalPoint", "ca", "en");</script>
```

Figure 1.   Sample of an AJAX Plug-In.

Here is a very basic HTML page integrating the BCH AJAX Plug-In.

```
<html>

 <body>


 <h1>National Focal Points</div>


 <script type="text/javascript" charset="utf-8"

  src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js"></script>

 <script type="text/javascript" charset="utf-8" >

  GenerateRecords("focalPoint", "ca", "en");</script>


 </body

</html>
```

Figure 2. AJAX Plug-In integrated into a basic web page.

1.5 Customization

The BCH AJAX Plug-In can be easily customized to show any specific type of BCH national information for any country.

 The BCH AJAX Plug-In can be customized by simply changing the parameters of the **GenerateRecords** method defined below.

```
function GenerateRecords(documentType, country, language);
```

Figure 3. Sample parameter used in the BCH AJAX Plug-In.

1.5.1 Document Type

The parameter specifies what type of BCH national information to display. The valid values are the following:

Type of information to display	Value
National Focal Point	focalPoint
Competent National Authority	Authority
National Database	nationalDatabase
Law, Regulation or Guideline	Law
Agreement or Arrangement	Agreement
Decision on LMO	decisionUnderAIA
Decision on LMO-FFP	decisionUnderA11
Other Decision	Decision
Biosafety Expert	biosafetyExpert
Report on Assignment	biosafetyExpertAssignmentReport
Capacity Building Opportunity	capacityBuildingOpportunity
Capacity Building Project	capacityBuildingProject
Capacity Building Need or Priority	countryNeedsAndPriorities
Risk Assessment	riskAssessment

Table 1. Value of the type of information to be displayed.

1.5.2 Country

The parameter specifies what country for which the information is displayed. The BCH AJAX Plug-In uses 2-letter ISO 3166 country codes.

Country names	ISO 3166-1-alpha-2 code
A	
AFGHANISTAN	AF
ÅLAND ISLANDS	AX
ALBANIA	AL
ALGERIA	DZ
AMERICAN SAMOA	AS
ANDORRA	AD
ANGOLA	AO
ANGUILLA	AI
ANTARCTICA	AQ
ANTIGUA AND BARBUDA	AG
ARGENTINA	AR
ARMENIA	AM
ARUBA	AW
AUSTRALIA	AU
AUSTRIA	AT
AZERBAIJAN	AZ
B	
BAHAMAS	BS
BAHRAIN	BH
BANGLADESH	BD
BARBADOS	BB
BELARUS	BY
BELGIUM	BE
BELIZE	BZ
BENIN	BJ
BERMUDA	BM
BHUTAN	BT
BOLIVIA	BO
BOSNIA AND HERZEGOVINA	BA
BOTSWANA	BW

Country names	ISO 3166-1-alpha-2 code
BOUVET ISLAND	BV
BRAZIL	BR
BRITISH INDIAN OCEAN TERRITORY	IO
BRUNEI DARUSSALAM	BN
BULGARIA	BG
BURKINA FASO	BF
BURUNDI	BI
C	
CAMBODIA	KH
CAMEROON	CM
CANADA	CA
CAPE VERDE	CV
CAYMAN ISLANDS	KY
CENTRAL AFRICAN REPUBLIC	CF
CHAD	TD
CHILE	CL
CHINA	CN
CHRISTMAS ISLAND	CX
COCOS (KEELING) ISLANDS	CC
COLOMBIA	CO
COMOROS	KM
CONGO	CG
CONGO, THE DEMOCRATIC REPUBLIC OF THE	CD
COOK ISLANDS	CK
COSTA RICA	CR
CÔTE D'IVOIRE	CI
CROATIA	HR
CUBA	CU
CYPRUS	CY
CZECH REPUBLIC	CZ
D	
DENMARK	DK
DJIBOUTI	DJ
DOMINICA	DM

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Country names	ISO 3166-1-alpha-2 code
DOMINICAN REPUBLIC	DO
E	
ECUADOR	EC
EGYPT	EG
EL SALVADOR	SV
EQUATORIAL GUINEA	GQ
ERITREA	ER
ESTONIA	EE
ETHIOPIA	ET
F	
FALKLAND ISLANDS (MALVINAS)	FK
FAROE ISLANDS	FO
FIJI	FJ
FINLAND	FI
FRANCE	FR
FRENCH GUIANA	GF
FRENCH POLYNESIA	PF
FRENCH SOUTHERN TERRITORIES	TF
G	
GABON	GA
GAMBIA	GM
GEORGIA	GE
GERMANY	DE
GHANA	GH
GIBRALTAR	GI
GREECE	GR
GREENLAND	GL
GRENADA	GD
GUADELOUPE	GP
GUAM	GU
GUATEMALA	GT
GUERNSEY	GG
GUINEA	GN
GUINEA-BISSAU	GW

Country names	ISO 3166-1-alpha-2 code
GUYANA	GY
H	
HAITI	HT
HEARD ISLAND AND MCDONALD ISLANDS	HM
HOLY SEE (VATICAN CITY STATE)	VA
HONDURAS	HN
HONG KONG	HK
HUNGARY	HU
I	
ICELAND	IS
INDIA	IN
INDONESIA	ID
IRAN, ISLAMIC REPUBLIC OF	IR
IRAQ	IQ
IRELAND	IE
ISLE OF MAN	IM
ISRAEL	IL
ITALY	IT
J	
JAMAICA	JM
JAPAN	JP
JERSEY	JE
JORDAN	JO
K	
KAZAKHSTAN	KZ
KENYA	KE
KIRIBATI	KI
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP
KOREA, REPUBLIC OF	KR
KUWAIT	KW
KYRGYZSTAN	KG
L	
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA
LATVIA	LV

Country names	ISO 3166-1-alpha-2 code
LEBANON	LB
LESOTHO	LS
LIBERIA	LR
LIBYAN ARAB JAMAHIRIYA	LY
LIECHTENSTEIN	LI
LITHUANIA	LT
LUXEMBOURG	LU
M	
MACAO	MO
MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	MK
MADAGASCAR	MG
MALAWI	MW
MALAYSIA	MY
MALDIVES	MV
MALI	ML
MALTA	MT
MARSHALL ISLANDS	MH
MARTINIQUE	MQ
MAURITANIA	MR
MAURITIUS	MU
MAYOTTE	YT
MEXICO	MX
MICRONESIA, FEDERATED STATES OF	FM
MOLDOVA, REPUBLIC OF	MD
MONACO	MC
MONGOLIA	MN
MONTENEGRO	ME
MONTSERRAT	MS
MOROCCO	MA
MOZAMBIQUE	MZ
MYANMAR	MM
N	
NAMIBIA	NA
NAURU	NR

Country names	ISO 3166-1-alpha-2 code
NEPAL	NP
NETHERLANDS	NL
NETHERLANDS ANTILLES	AN
NEW CALEDONIA	NC
NEW ZEALAND	NZ
NICARAGUA	NI
NIGER	NE
NIGERIA	NG
NIUE	NU
NORFOLK ISLAND	NF
NORTHERN MARIANA ISLANDS	MP
NORWAY	NO
O	
OMAN	OM
P	
PAKISTAN	PK
PALAU	PW
PALESTINIAN TERRITORY, OCCUPIED	PS
PANAMA	PA
PAPUA NEW GUINEA	PG
PARAGUAY	PY
PERU	PE
PHILIPPINES	PH
PITCAIRN	PN
POLAND	PL
PORTUGAL	PT
PUERTO RICO	PR
Q	
QATAR	QA
R	
RÉUNION	RE
ROMANIA	RO
RUSSIAN FEDERATION	RU
RWANDA	RW

Country names	ISO 3166-1-alpha-2 code
S	
SAINT BARTHÉLEMY	BL
SAINT HELENA	SH
SAINT KITTS AND NEVIS	KN
SAINT LUCIA	LC
SAINT MARTIN	MF
SAINT PIERRE AND MIQUELON	PM
SAINT VINCENT AND THE GRENADINES	VC
SAMOA	WS
SAN MARINO	SM
SAO TOME AND PRINCIPE	ST
SAUDI ARABIA	SA
SENEGAL	SN
SERBIA	RS
SEYCHELLES	SC
SIERRA LEONE	SL
SINGAPORE	SG
SLOVAKIA	SK
SLOVENIA	SI
SOLOMON ISLANDS	SB
SOMALIA	SO
SOUTH AFRICA	ZA
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS
SPAIN	ES
SRI LANKA	LK
SUDAN	SD
SURINAME	SR
SVALBARD AND JAN MAYEN	SJ
SWAZILAND	SZ
SWEDEN	SE
SWITZERLAND	CH
SYRIAN ARAB REPUBLIC	SY

Country names	ISO 3166-1-alpha-2 code
T	
TAIWAN, PROVINCE OF CHINA	TW
TAJIKISTAN	TJ
TANZANIA, UNITED REPUBLIC OF	TZ
THAILAND	TH
TIMOR-LESTE	TL
TOGO	TG
TOKELAU	TK
TONGA	TO
TRINIDAD AND TOBAGO	TT
TUNISIA	TN
TURKEY	TR
TURKMENISTAN	TM
TURKS AND CAICOS ISLANDS	TC
TUVALU	TV
U	
UGANDA	UG
UKRAINE	UA
UNITED ARAB EMIRATES	AE
UNITED KINGDOM	GB
UNITED STATES	US
UNITED STATES MINOR OUTLYING ISLANDS	UM
URUGUAY	UY
UZBEKISTAN	UZ
V	
VANUATU	VU
VATICAN CITY STATE	see *HOLY SEE*
VENEZUELA	VE
VIET NAM	VN
VIRGIN ISLANDS, BRITISH	VG
VIRGIN ISLANDS, U.S.	VI
W	
WALLIS AND FUTUNA	WF
WESTERN SAHARA	EH

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Country names	ISO 3166-1-alpha-2 code
Y	
YEMEN	YE
Z	
ZAIRE	see _CONGO, THE DEMOCRATIC REPUBLIC OF THE_
ZAMBIA	ZM
ZIMBABWE	ZW

Table 2. ISO 3166 two-letter country code.

1.5.3 Language

The parameter specifies in which language the information should be displayed. The BCH AJAX Plug-In will not be limited to the 6 UN languages. The latest version of BCH Central Portal allows the country-users to select other languages aside from the 6 UN official languages when registering information. At the Management Centre section of the BCH Central Portal, additional language can be selected by clicking on the "Select Languages" button   (Figure 4).
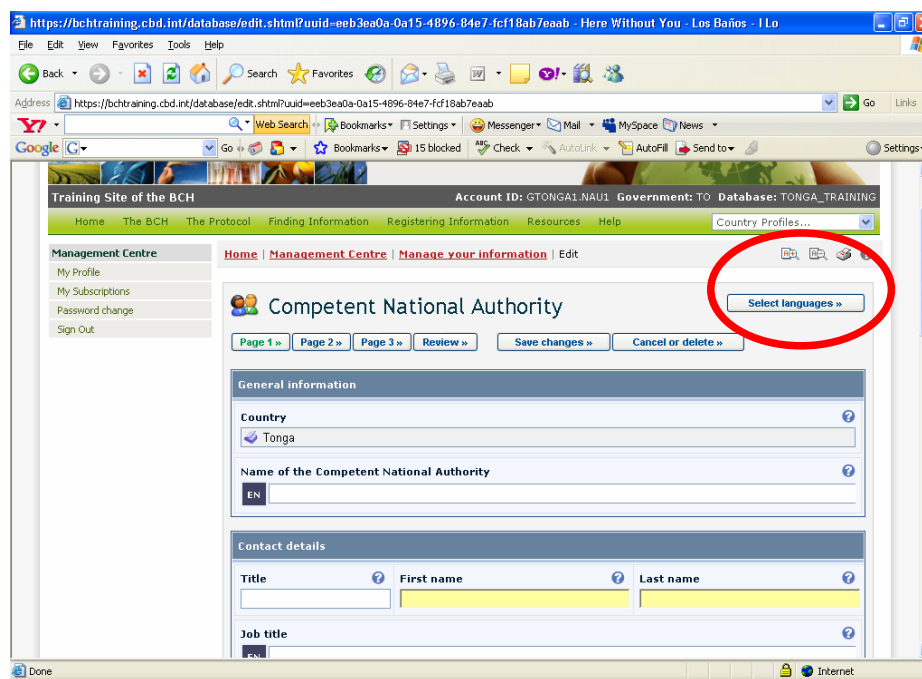
Figure 4. The "Select Language" Button, BCH Management Centre

A drop-down list of additional languages is available and selected language can be saved (Figure 5). After which, the authorized users can register information on the BCH portal in both the UN language of choice and another one (Figure 6)
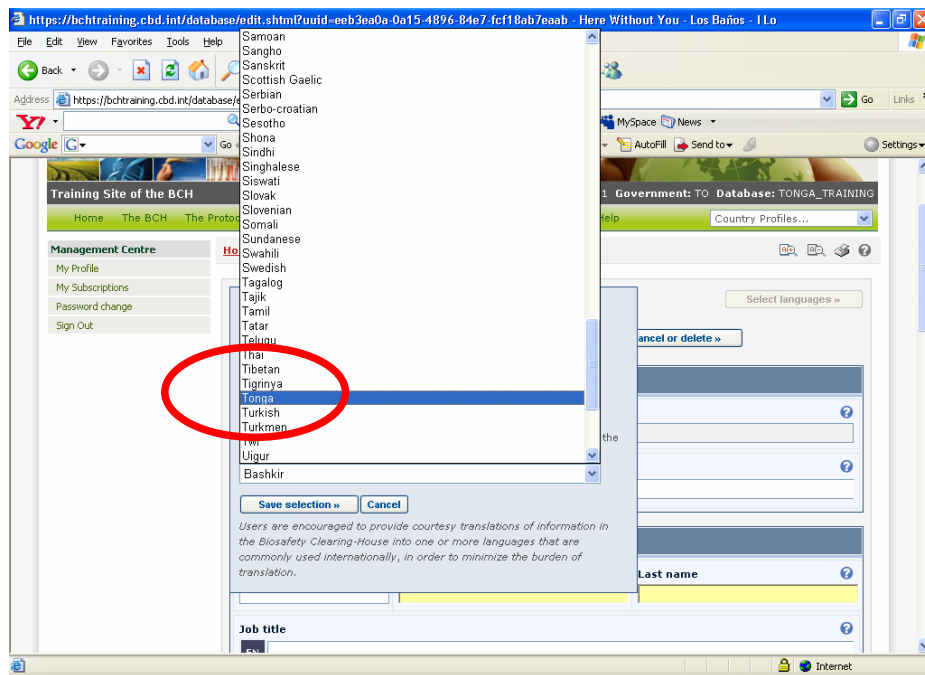
Figure 5.   "Additional Languages" drop down list from BCH Management Centre.
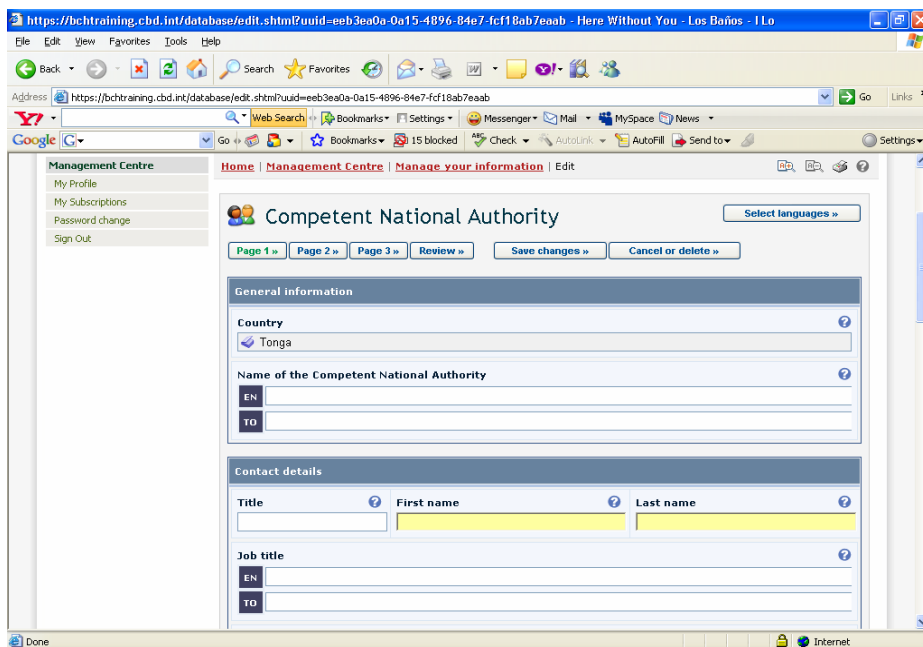
Figure 6. Registering Information with Official UN Language and another Additional Language Centre.

The complete list of language code, however can be found at:

http://www.loc.gov/standards/iso639-2/php/English_list.php

SECTION 2.   EMBEDDING THE JAVASCRIPT AND AJAX PLUG-IN

What you will learn in this section:

- The JavaScript and AJAX Plugin formats.

- Where to place the JavaScript and AJAX Plugins

2.1 Embedding the JavaScript

JavaScript is important to make the AJAX Plug-In work. The webpage (regardless of format – html, php, asp, etc.) where your front-end is (where information will be displayed) should contain the following lines:

```
<script type="text/javascript" charset="utf-8"
src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js">
</script>
```

Figure 7.   Sample JavaScript.

Now where do we put the JavaScript?

Generally, JavaScript can be placed within the head or body section or can be declared as an external script.   If you want the script to be executed when it is called or when a user triggers an event, put the script in the head section.

```
<html>
<head>
    <script type="text/javascript" charset="utf-8"
    src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js">
    </script>
 </head>
```

Figure 8. Embedding the JavaScript within the head tags.

For JavaScript that needs to be executed immediately while the page loads into the browser, put it in the body section.

```
<html>
<head>
</head>
<body>
    <script type="text/javascript" charset="utf-8"
    src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js">
    </script>
 </body>
```

Figure 9. Embedding the JavaScript within the body section.

The external script is recommended if you want to run the same JavaScript on several pages without having to write the same script on every page. The JavaScript is written in an external file and saved with a **.js** file extension.

To use the external script, point to the .js file in the "src" attribute of the <script> tag:

```
<html>
<head>
<script src="external.js"></script>
</head>
<body>
 </body>
</html>
```

Figure 10.   JavaScript written in an external file.

2.2   Integrating the AJAX Plug-In

After declaring the JavaScript, we are now ready to integrate the following AJAX Plug-In:

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("documentType", "countryCode", "language");
</script>
```

Figure 11. AJAX Plug-In to be integrated.

where *documentType* is the value of the type of information to be displayed (Table 2), *countryCode* is the 2-letter ISO 3166 country codes; and *language* is the code which specifies which language the information should be displayed.
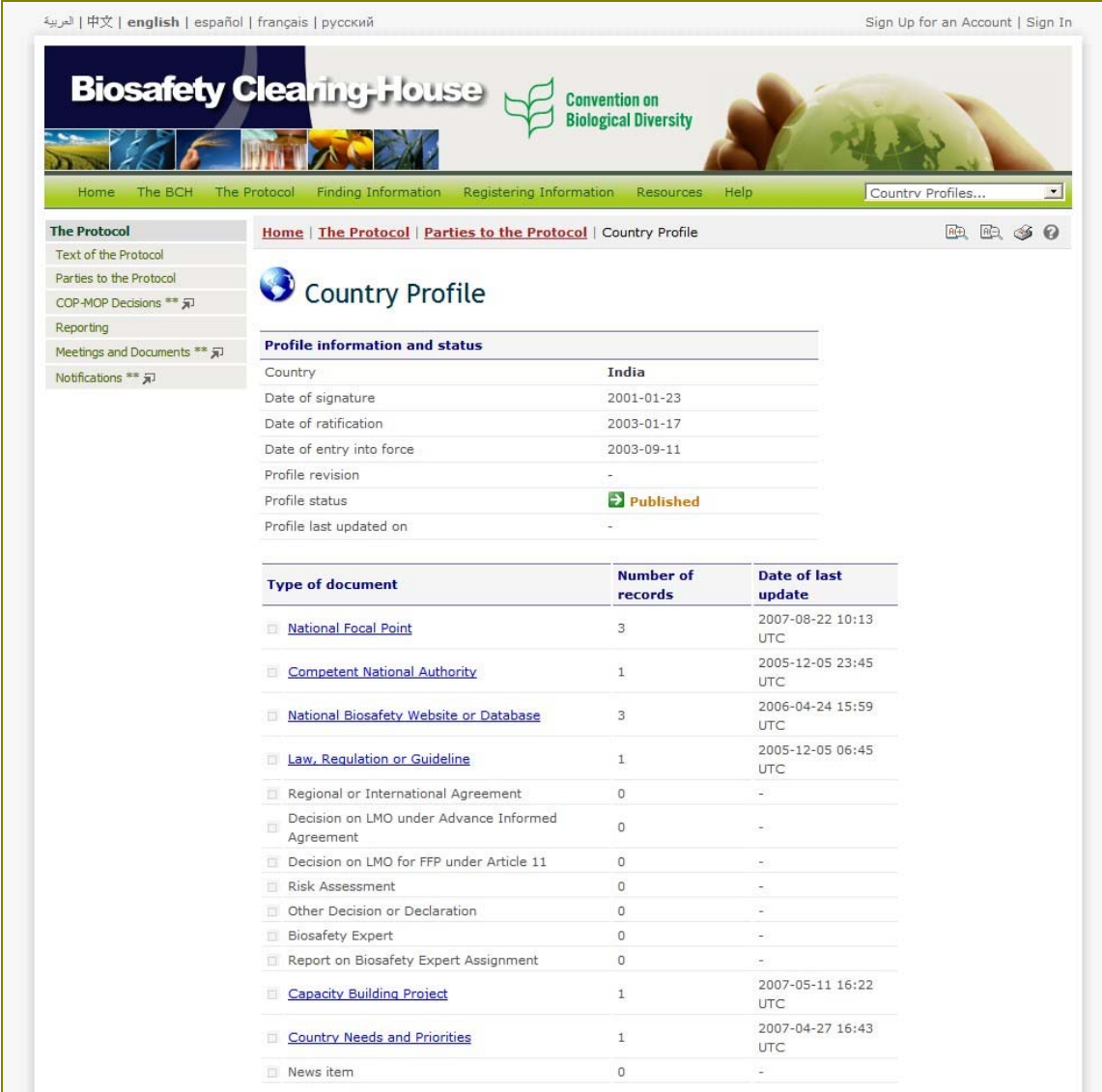
To illustrate, let us consider the different available documents in India. First, we generate the country profile of India.

Figure 12. Country profile of India generated from the BCH Portal.

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Then, we check for available information on India. Based from the generated page, the types of document available information on India are the following:

- National Focal Point,

- Competent National Authority,

- National Biosafety Website or Database,

- Law, Regulation or Guidelines,

- Capacity Building Projects, and

- Country Needs Priority.

Figure 13.   Types of document available in India.

To display the abovementioned information on the National BCH Webpage of India, the following AJAX Plug-Ins will be used:

- For the National Focal Point

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("focalPoint ", "IN", "en");
</script>
```

- Competent National Authority

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("authority", "IN", "en");
</script>
```

- National Biosafety Website or Database

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("nationalDatabase", "IN", "en");
</script>
```

- Law, Regulation or Guidelines

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("law", "IN", "en");
</script>
```

- Capacity Building Projects

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("capacityBuildingProject", "IN", "en");
</script>
```

- Country Needs Priority

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("countryNeedsAndPriorities", "IN", "en");
</script>
```

SECTION 3. APPLICATION OF AJAX PLUG-IN TO THE NATIONAL BCH WEBPAGE

Note: Notepad will be used to edit/modify the webpages for all the examples given in this section.

3.1 Displaying Information on National Focal Point(s)

For this example, we will be using the Bahamas Biosafety Clearing-House webpage to display information on Focal Point(s). HTML was used for its web development tool. The filename for sample file for this example is the **focalpoint.htm**.

3.1.1   Opening the Bahamas Biosafety Clearing-House Webpage on Focal Point(s), focalpoint.htm

Step 1.   Open the Notepad program.
  1.1 From the desktop, go to start button and click it.
  1.2 Move cursor to All Programs, a submenu will appear.
  1.3 From the submenu, move mouse to accessories, sub-submenu will appear.
  1.4 From the sub-submenu, select Notepad and click it.
  1.5 The Notepad program will open in another window.
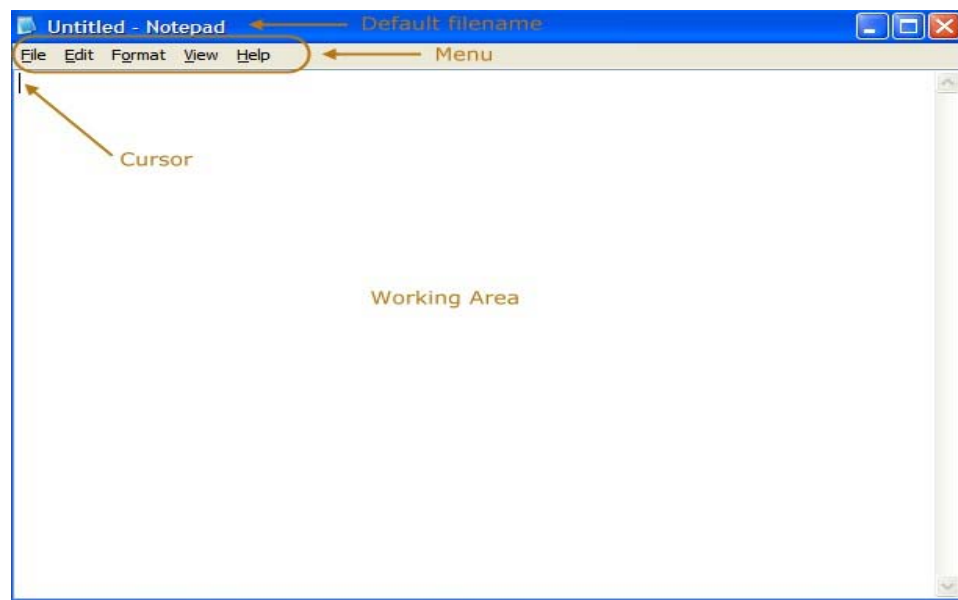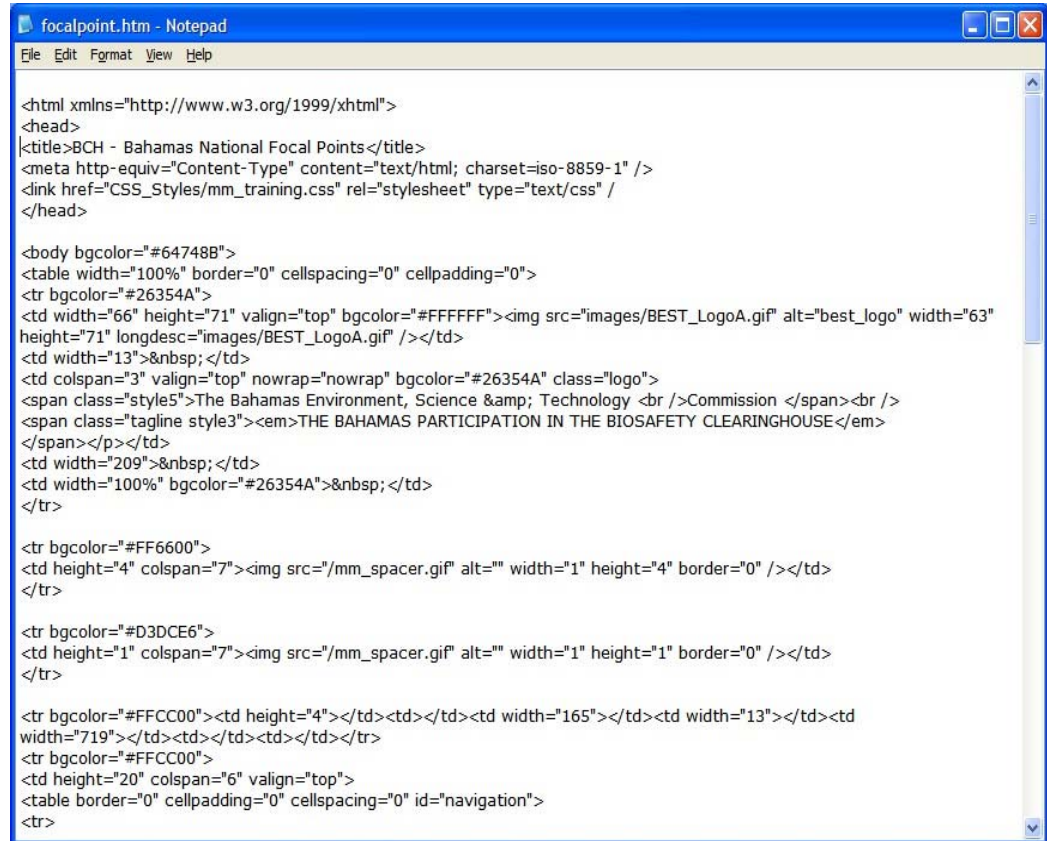
Figure 14.   Parts of a Notepad.

Step 2.   Open the file, **focalpoint.htm**.
  2.1   From Notepad, move mouse to the menu.
  2.2   Select the File option from the menu, click it.
  2.3   Select the open option. A new window opens prompting the user to locate the file to be opened.
  2.4   Go the folder containing the file, **focalpoint.htm**. In this example, the file is located at the c drive, folder AJAX, subfolder Bahamas.
  2.5   Click to open the file.   The source code for the **focalpoint.htm** file will be displayed.
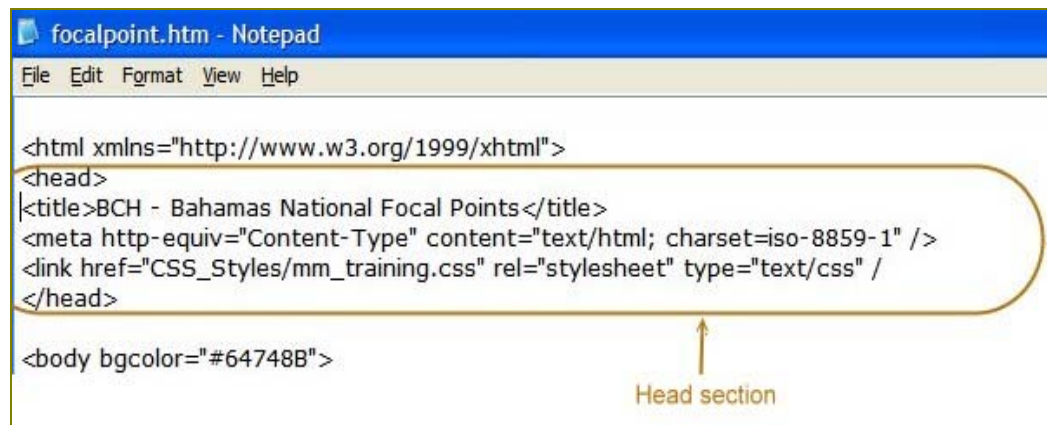
Figure 15. Source code of focalpoint.htm file.

3.1.2 Inserting the JavaScript and AJAX Plug-in

Step 1. Insert the JavaScript.

1.1 With the *focalpoint.htm* file open, move the cursor to the head section of the webpage.

Figure 16. Head section of the focalpoint.htm file.

1.2 Move cursor to the end of the
<link href="CSS_Styles/ mm_training.css" rel="stylesheet" type="text/css" />
line. Press the enter key to insert a line.

1.3 Type the following,
<script type="text/javascript" charset="utf-8" src="http://bch.biodiv.org/centralportal/ui/offsite/bch-offsite.js"></script>

1.4 From the menu, select File, then save to save the modifications made to *focalpoint.htm* file. The resulting page will look like the following:
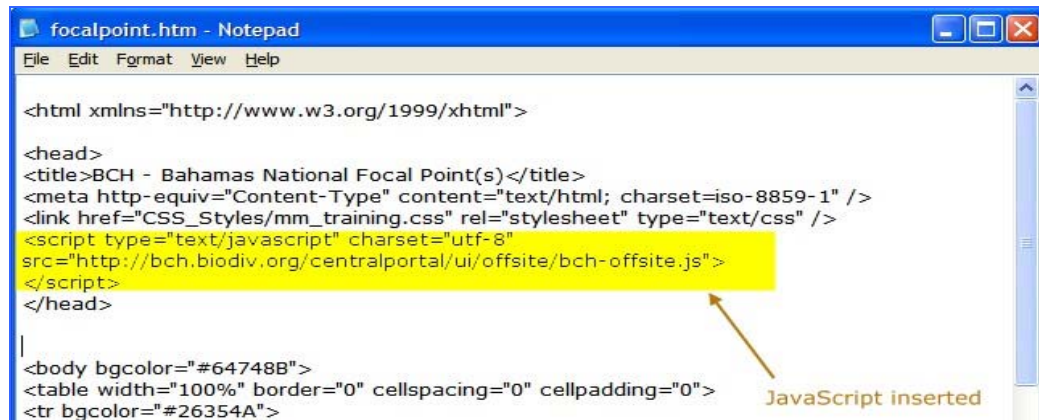

Figure 17. Edited focalpoint.htm with the JavaScript inserted.

Step 2. Insert the AJAX Plug-In.

2.1 With the *focalpoint.htm* file open, move the cursor to the body section of the webpage.

2.2 We want the information to be displayed after the introduction of the Bahamas Focal Point(s). Hence, we will move our cursor down within the body section and locate for the text containing the said introduction.
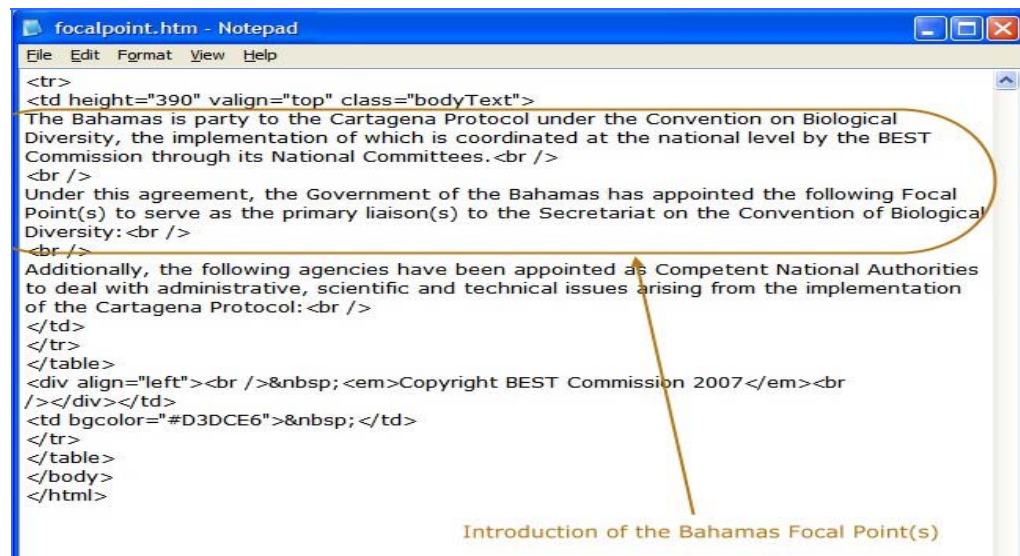

Figure 18. Text containing the introduction to the Bahamas Focal Point(s).

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2.3   After the break code <br />, press enter and type the following AJAX Plug-In,

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("focalPoint", "bs", "en");
</script>
```

Note: The value of the parameters for the *GenerateRecords* function are *'focalPoint'* for the information we want to display; '*bs'*, the ISO 3166 code for Bahamas; and '*en'* meaning the information will be displayed in English language.

2.4   From the menu, select File, then save to save the modifications made to **focalpoint.htm** file. The resulting page will look like the following:
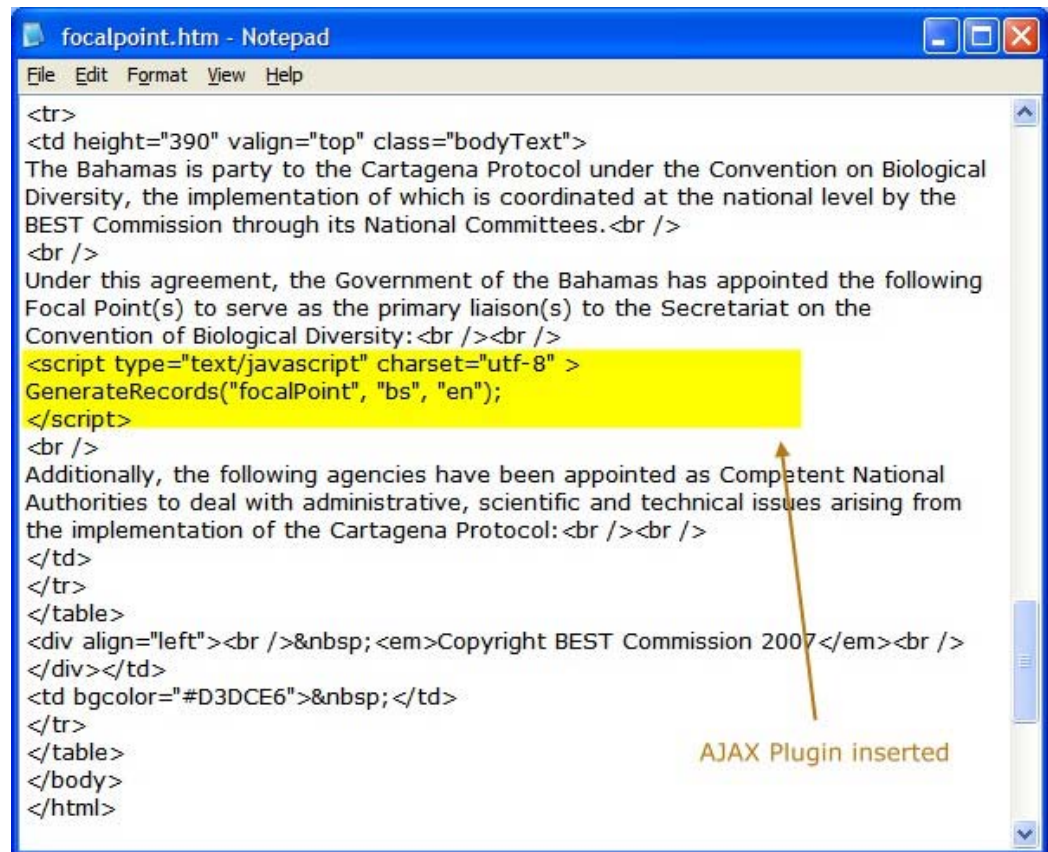
Figure 19. AJAX Plug-In inserted.

3.1.3 *Displaying the webpage using the browser*

After embedding the AJAX Plug-In in the focalpoint.htm file, the information on the Bahamas focal point(s) is/are now ready to be displayed/generated at the Bahamas webpage. This will be processed from the BCH Central Portal. To display the info,

Step 1. Open your browser, Internet Explorer or Mozilla Firefox.
Step 2. Type the url, http://www.bahamas.bch.cbd.int/focal.htm.

3.1.4   Information generated by the use of AJAX Plug-In

The following images will demonstrate how the information will be displayed at the front-end:
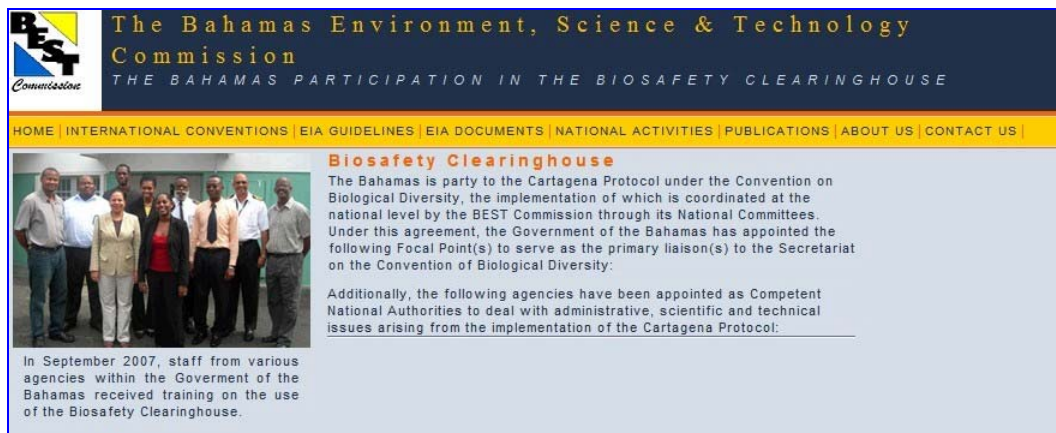
a.   Without the AJAX Plug-In

Figure 20.   The Bahamas BCH webpage on Focal Point with no AJAX Plug-In inserted.

b.   With AJAX Plug-In

Figure 21. The Bahamas BCH webpage on Focal Points with AJAX Plug inserted.

3.2 Some More Examples Using Other Web Development Tools

3.2.1 Using PHP Hypertext Preprocessor (PHP)

The Egyptian Biosafety Clearing- House webpage uses php as its web development tool. This will be used to generate information on Laws and Regulations. Filename for the sample file that will be used for this example is **regulations.php.**
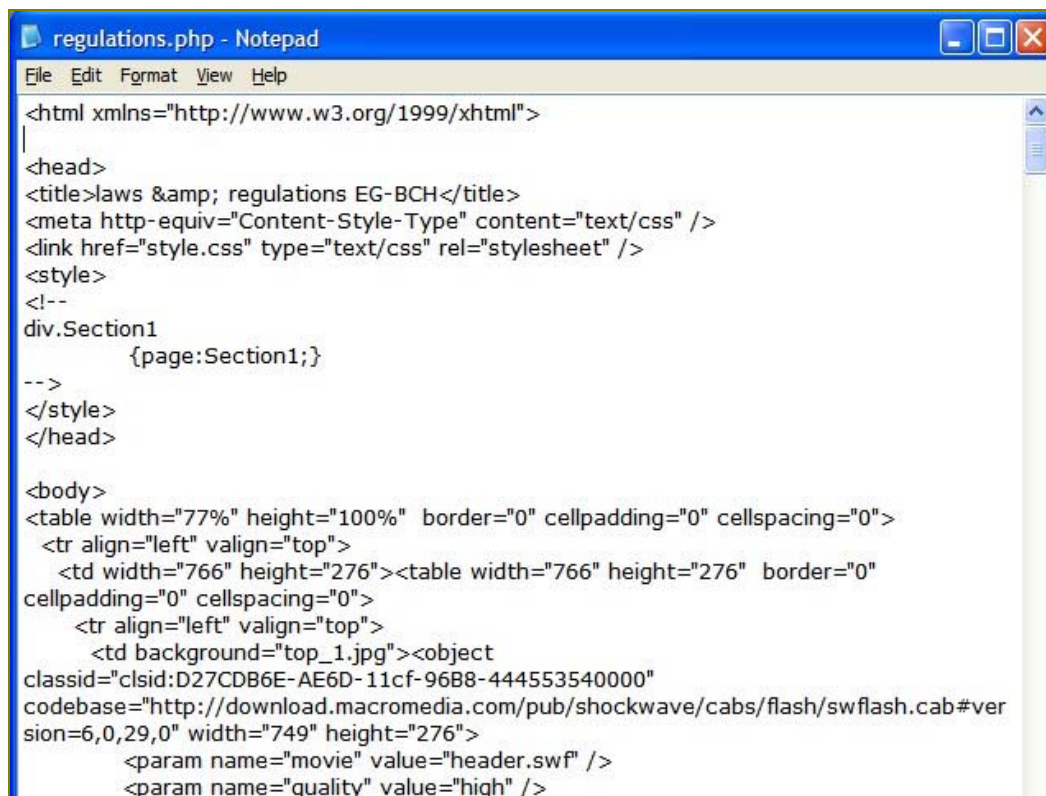
 3.2.1.1   Opening the Egyptian Biosafety Clearing-House Webpage, regulations.php

Step 1.   Open the Notepad program.

1.1   From the desktop, go to start button and click it.
1.2   Move cursor to All Programs, a submenu will appear.
1.3   From the submenu, move mouse to accessories, sub-submenu will appear.
1.4   From the sub-submenu, select Notepad and click it.
1.5   The Notepad program will open in another window.

Step 2. Open the file, **regulations.php**.

2.1   From Notepad, move mouse to the menu.
2.2   Select the File option from the menu, click it.
2.3   Select the open option. A new window opens prompting the user to locate the file to be opened.
2.4   Go the folder containing the file, **regulations.php**. In this example, the file is located at the c drive, folder AJAX, subfolder Egypt.
2.5   Click to open the file.   The source code for the **regulations.php** file will be displayed.

Figure 22. Source code of regulations.php file.

Inserting the JavaScript and AJAX Plug-In

Step 1.   Insert the JavaScript.

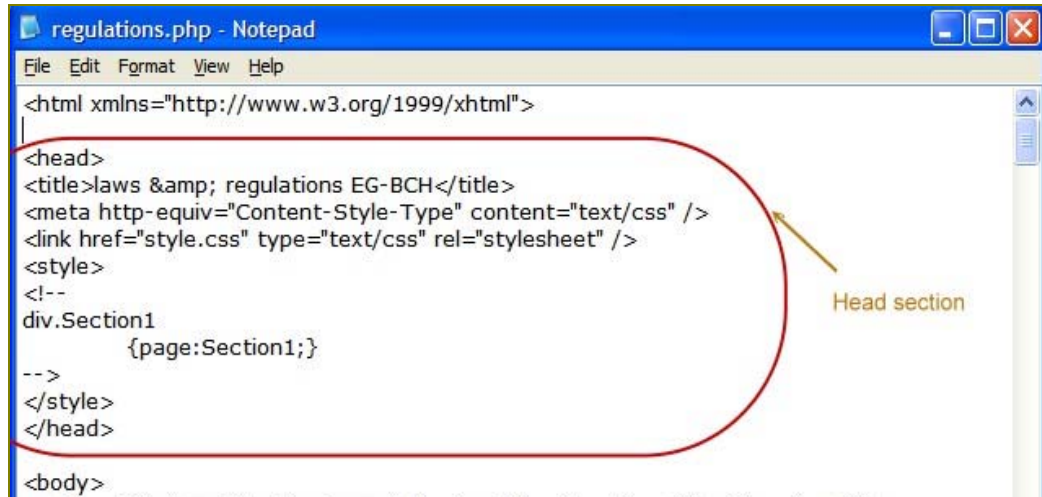1.1   With the **regulations.php** file open, move the cursor to the head section of the webpage.

Figure 23.   Head section of the regulations.php file.

1.2   Move cursor to the end of the
<link href="CSS_Styles/ mm_training.css" rel="stylesheet" type="text/css" />
line. Press the enter key to insert a line.

1.3   Type the following,
<script type="text/javascript" charset="utf-8" src="http://bch.biodiv.org/centralportal/ui/offsite/bch-ffsite.js"></script>

1.4   From the menu, select File, then save to save the modifications made to **regulations.php** file. The resulting page will look like the following:

Figure 24. Edited regulations.php with the JavaScript inserted.

Step 2. Insert the AJAX Plug-In.

2.1 With the **regulations.php** file open, move the cursor to the body section of the webpage.

2.2 We want the information to be displayed after the sentence Laws and protocols dealing with Biosafety in Egypt. Hence, we will move our cursor down within the body section and locate for the text containing the said statement.

Figure 25. Text containing the introduction to the Egyptian Laws and protocols

2.3 Type the following AJAX Plug-In within the table row tag , <td> </td>:

```
<script type="text/javascript" charset="utf-8" >
GenerateRecords("law", "eg", "en");
</script>
```

Note: The value of the parameters for the GenerateRecords function are 'law' for the information we want to display; 'eg', the ISO 3166 code for Egypt; and 'en' meaning the information will be displayed in English language.

2.4 From the menu, select File, then save to save the modifications made to **regulations.php** file. The resulting page will look like the following:

Figure 26. AJAX Plug-In inserted.

3.2.1.3 Displaying the webpage using the browser
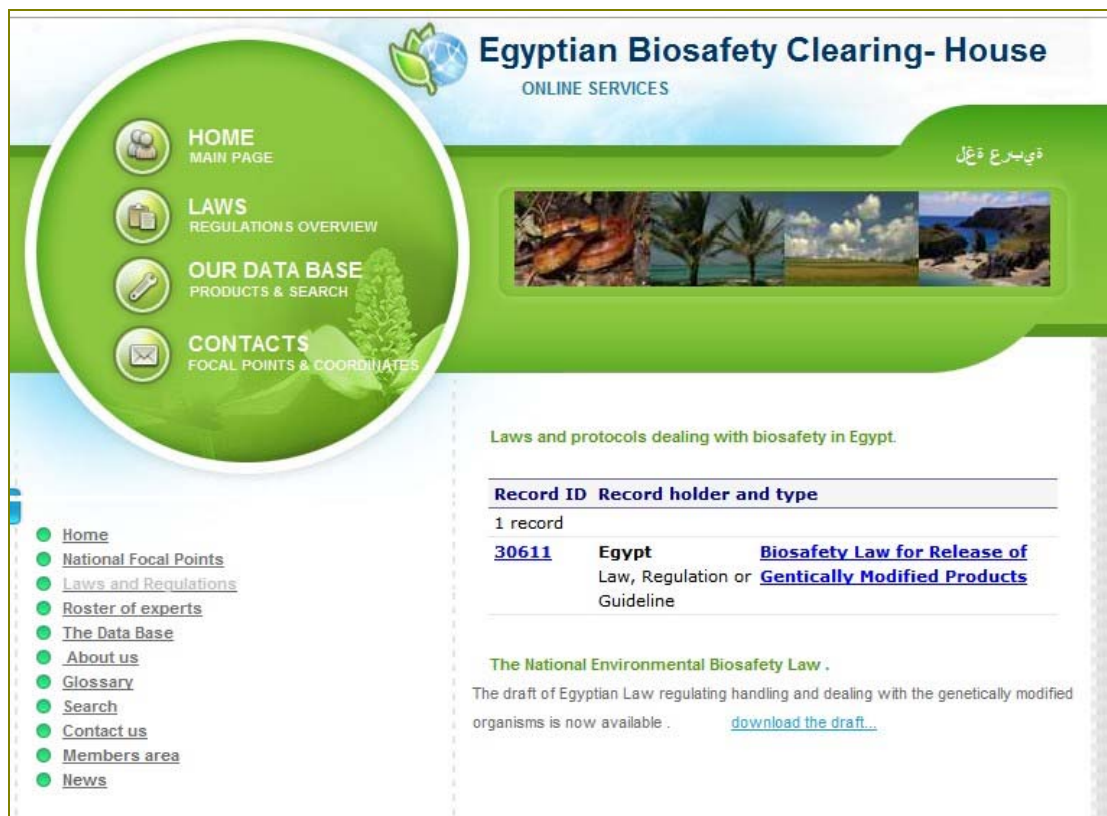

Figure 27. List of Laws and protocols dealing with Egyptian Biosafety Clearing-House.

3.2.2 Using Active Server Pages (ASP)

The Nigerian Biosafety Clearing- House webpage, makes use of the asp technology for its web development. The web page on experts, http://biosafety-nigeria.org/experts.aspx, will be used to generate information on available experts on the Nigerian Biosafety Clearing-House.

3.2.2.1 Opening the Egyptian Biosafety Clearing-House Webpage, experts.aspx
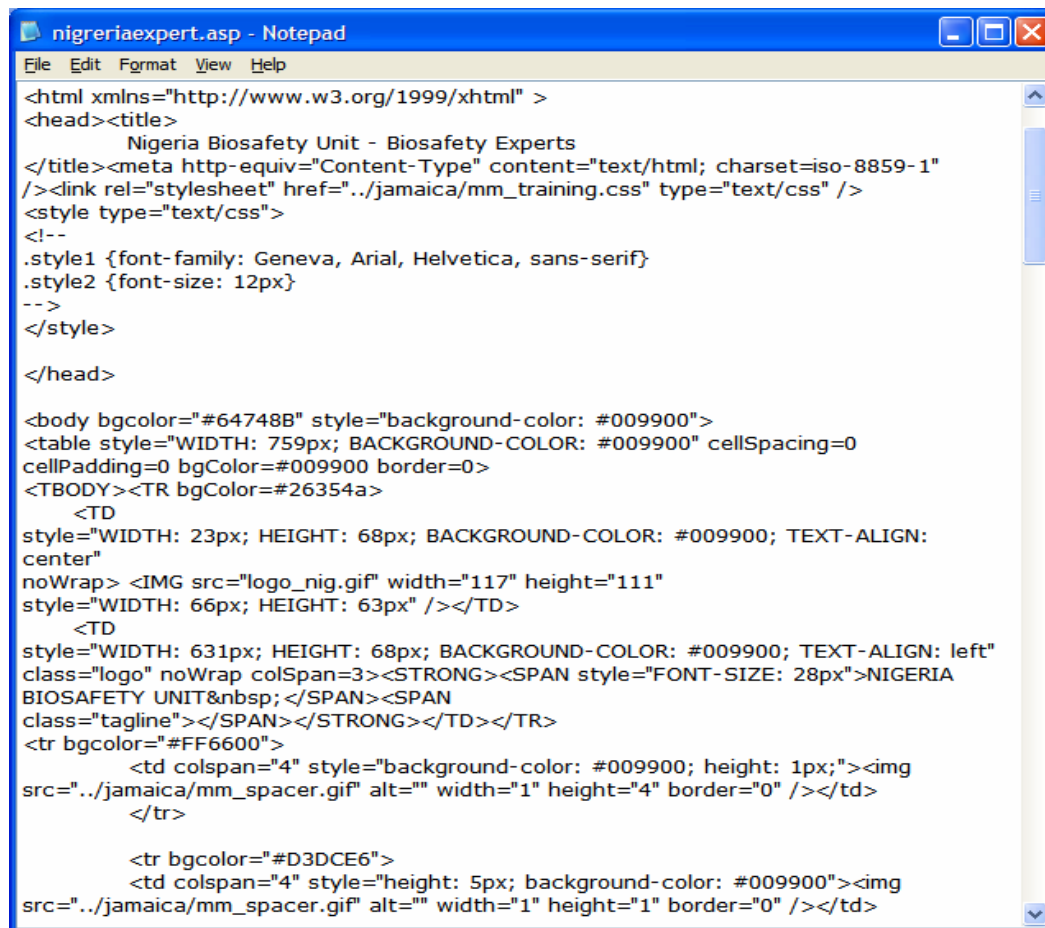
Step 1.   Open the Notepad program.

    1.1   From the desktop, go to start button and click it.
    1.2   Move cursor to All Programs, a submenu will appear.
    1.3   From the submenu, move mouse to accessories, sub-submenu will appear.
    1.4   From the sub-submenu, select Notepad and click it.
    1.5   The Notepad program will open in another window.

Step 2.   Open the file, **experts.aspx**.

    2.1   From Notepad, move mouse to the menu.
    2.2   Select the File option from the menu, click it.
    2.3   Select the open option. A new window opens prompting the user to locate the file to be opened.

2.4 Go the folder containing the file, **experts.aspx**. In this example, the file is located at the c drive, folder AJAX, subfolder Nigeria.

2.5 Click to open the file.   The source code for the **experts.aspx** file will be displayed.

Figure 28.   Source code of experts.asp file.

3.2.2.2   Inserting the JavaScript and AJAX Plug-In

Step 1.   Insert the JavaScript.

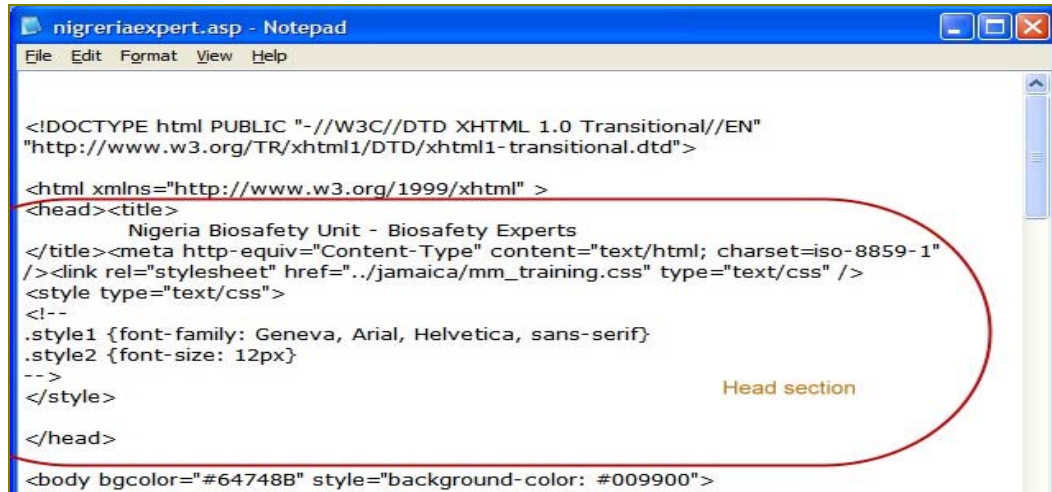1.1   With the **experts.aspx** file open, move the cursor to the head section of the webpage.

Figure 29.   Head section of the experts.asp file.

1.2   Move cursor to the end of the
<link href="CSS_Styles/ mm_training.css" rel="stylesheet" type="text/css" />
line. Press the enter key to insert a line.

1.3   Type the following,
<script type="text/javascript" charset="utf-8" src="http://bch.biodiv.org/centralportal/ui/offsite/bch-ffsite.js"></script>

1.4   From the menu, select File, then save to save the modifications made to **experts.aspx** file. The resulting page will look like the following:
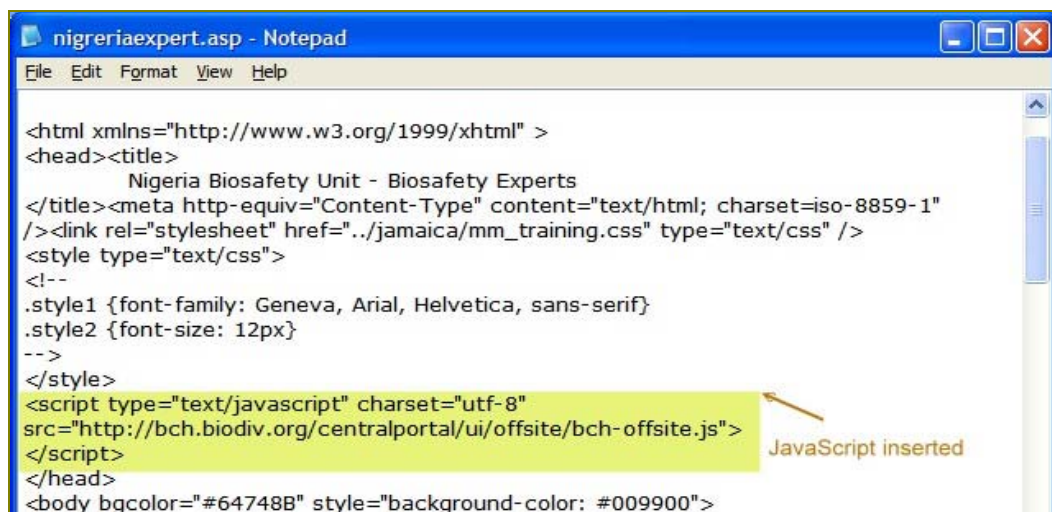

Figure 30. Edited experts.asp with the JavaScript inserted.

Step 2.   Insert the AJAX Plug-In.

2.1   With the ***experts.aspx***. file open, move the cursor to the body section of the webpage.

2.2   We want the information to be displayed after the introduction of the Nigerian Roster of Experts on Biosafety. Hence, we will move our cursor down within the body section and locate for the text containing the said introduction.
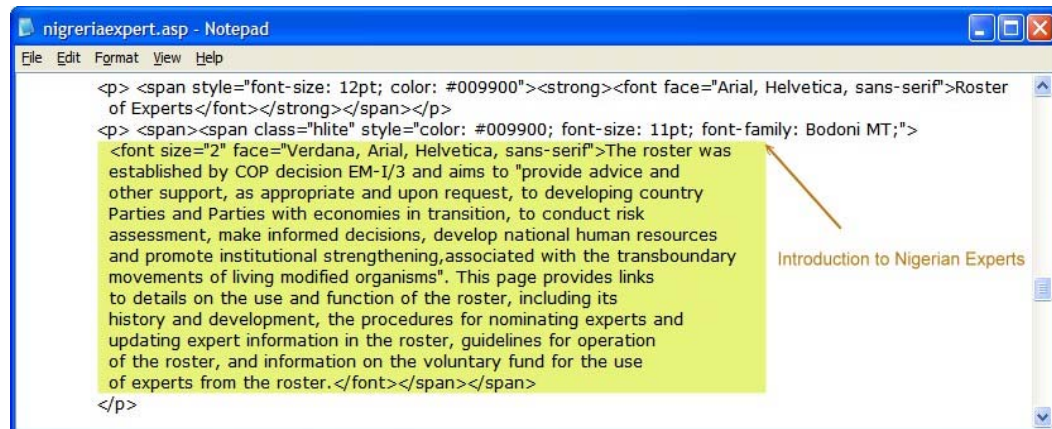

Figure 31. Text containing the introduction to the Nigerian experts.

2.3   After the break code <br />, press enter and type the following AJAX Plug-In,

<script type="text/javascript" charset="utf-8" >
GenerateRecords("biosafetyExpert **", "ng", "en"); </script>**

Note: The value of the parameters for the GenerateRecords function are 'biosafetyExpert' for the information we want to display; 'ng', the ISO 3166 code for Nigeria; and 'en' meaning the information be displayed in English language.

2.4   From the menu, select File, then save to save the modifications made to ***experts.aspx*** file. The resulting page will look like the following:
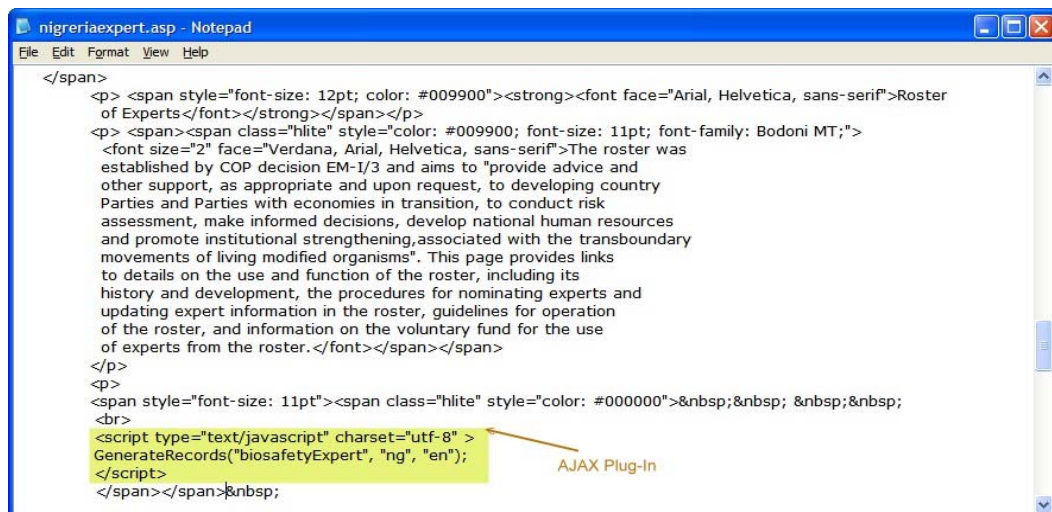

Figure 32. AJAX Plug-In inserted.

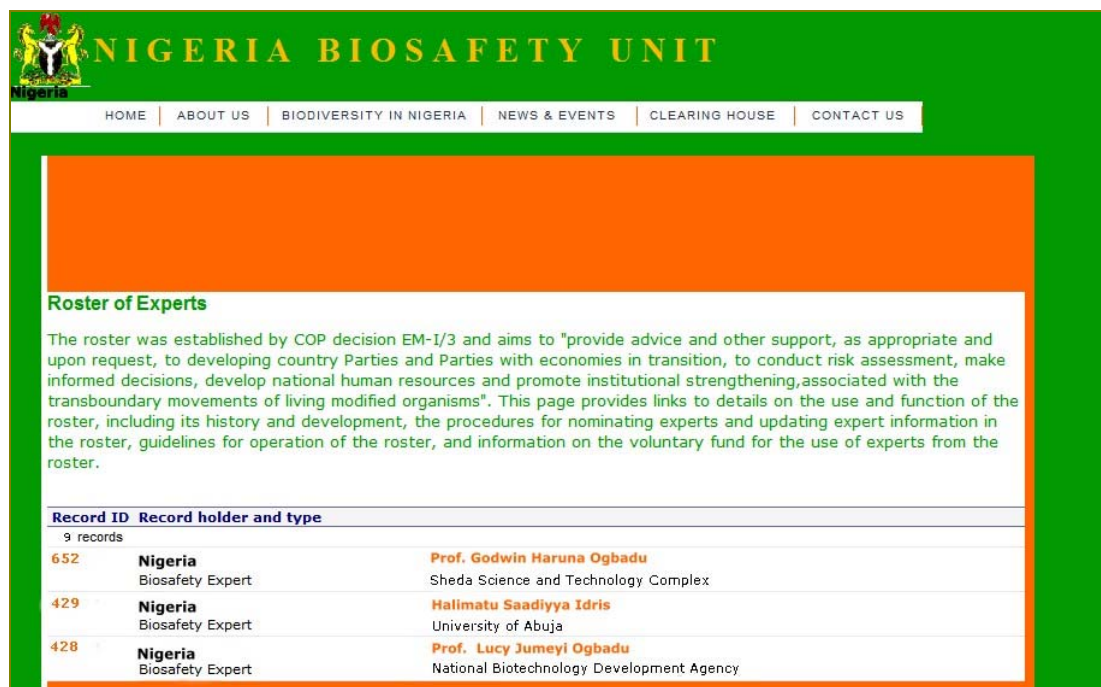### 3.2.2.3 Displaying the webpage using the browser

Figure 33. Roster of Nigerian Experts on Biosafety Clearing-House.

Remarks: Noticed that for all the three examples, the same steps were followed to display the desired information (Focal Points, Laws and Regulations, and Experts) regardless of the web development tools used. Only the value of the parameters for the Generate Records function are to be altered.

Acknowledgement