



SOP OF IDN-UA COMPLIANCE FOR INDIAN GOVERNMENT WEBSITES

Support document to enable URLs from English to Multilingual Indian
languages



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Node Js (16.14.1) Configuration –

Prerequisites-

Hosts file settings on server-

1. Add all multilingual domain to hosts file. Like below,

```
10.208.36.155  nodetestproject.com
10.208.36.155  xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d
```

.conf file settings on server-

2. Add Virtual configuration for all multilingual domain, Add all domain to ServerAlias. As shown below,

```
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName nodetestproject.com
    ServerAlias nodetestproject.com
    DocumentRoot /var/www/html/server
    ProxyPass / http://nodetestproject.com:8004/
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>

<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d
    ServerAlias xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d
    DocumentRoot /var/www/html/server
    ProxyPass / http://xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d:8004/
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```



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Setting up the required environments and libraries for node js application-

3. Write node api with '/' path and get requested hostname and depending on requested hostname set language variable and render data accordingly (e.g if requested hostname is in English then set language variable as 'EN' and render English data only, if requested hostname is in Hindi then set language variable as 'HI' and render Hindi data only), refer below code,

(Replace 'xn--c2bro4b8ab8d.xn--11b4c3d' with your Hindi punycode hostname)

```
app.get("/", function (req, res) {  
  let host=req.hostname  
  let language;  
  if(host=='xn--c2bro4b8ab8d.xn--11b4c3d'){  
    language='HI';  
  }else{ language='EN'; }  
  if(language=='HI'){  
    var Home='होम';  
    var About='अबाउट';  
    var heading = "होम पेज";  
    var bodycontent =  
    "सेंटर फॉर डेवलपमेंट ऑफ एडवांस्ड कां (C-DAC) इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय  
(MeitY) का प्रमुख R&D संस्था है जो इलेक्ट्रॉनिक्स और संबंधित क्षेत्रों में । करता है  
सी डैक के ट्वटभन्न क्षेत्रों की उत्पत्ति अलग अलग, समय में हुई थी टजिमें से कई अवसरों की  
पहचान के";  
  }else{  
    var Home='Home';  
    var About='About';  
    var heading = "Home Page";  
    var bodycontent =  
    "Centre for Development of Advanced Computing (C-DAC) is the premier R&D organization of  
the Ministry of Electronics and Information Technology (MeitY) for carrying out R&D in IT,  
Electronics and associated areas. Different areas of C-DAC, had originated at different times,  
many of which came out as a result of identification of opportunities.";  
  }  
  res.render(__dirname + "/Home.html", {Home:Home,About:About, heading: heading  
,bodycontent:bodycontent}); });
```



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4. Now for changing domain with selected language code using template(e.g. if user click on 'EN' then user should redirect to English domain and if user click on 'टह' then user should redirect to Hindi domain) for this refer below html template switching tag ,
There are two APIs for switching between domain after selection language,

```
<body >
  <div class="container" style="align-items: center;margin-top: 200px;">
    <ul class="nav nav-pills card-header-pills">
      <li class="nav-item">
        <a class="nav-link" href="/switchlangen">En</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="/switchlanghi">टह</a>
      </li>
    </ul>
  </div>
</body>
```

5. There are two APIs for switching between domain after selection language, As shown below
(Replace 'http://nodetestproject.com' with your English domain name and replace 'http://xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d' with your Hindi domain punycode domain name)

```
app.get('/switchlangen', (req, res) => {
  console.log(req.path)
  res.redirect('http://nodetestproject.com'+ '/')
});

app.get('/switchlanghi', (req, res) => {
  console.log(req.path)
  res.redirect('http://xn--11bniach2ct8c6dtibf0ci2acf.xn--11b4c3d'+ '/')
});
```



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IDN domain-compliant examples

Some of the Indian government websites used Drupal as CMS and IDN compliant.

Government Website (.gov.in/.सरकार.भारत)

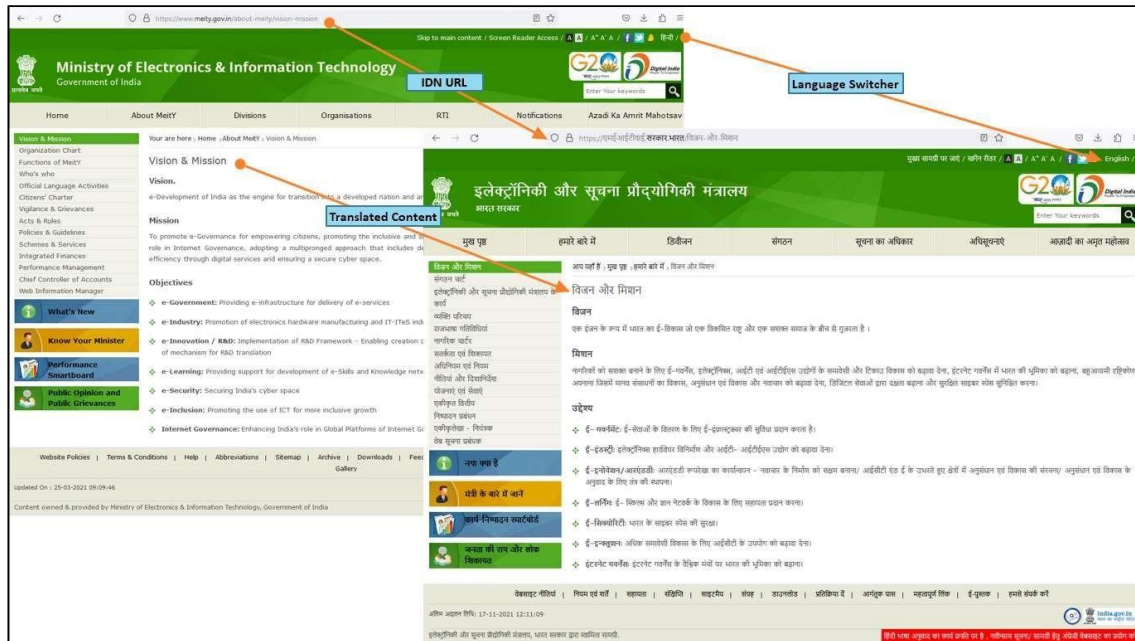


Figure 19: www.meit.gov.in

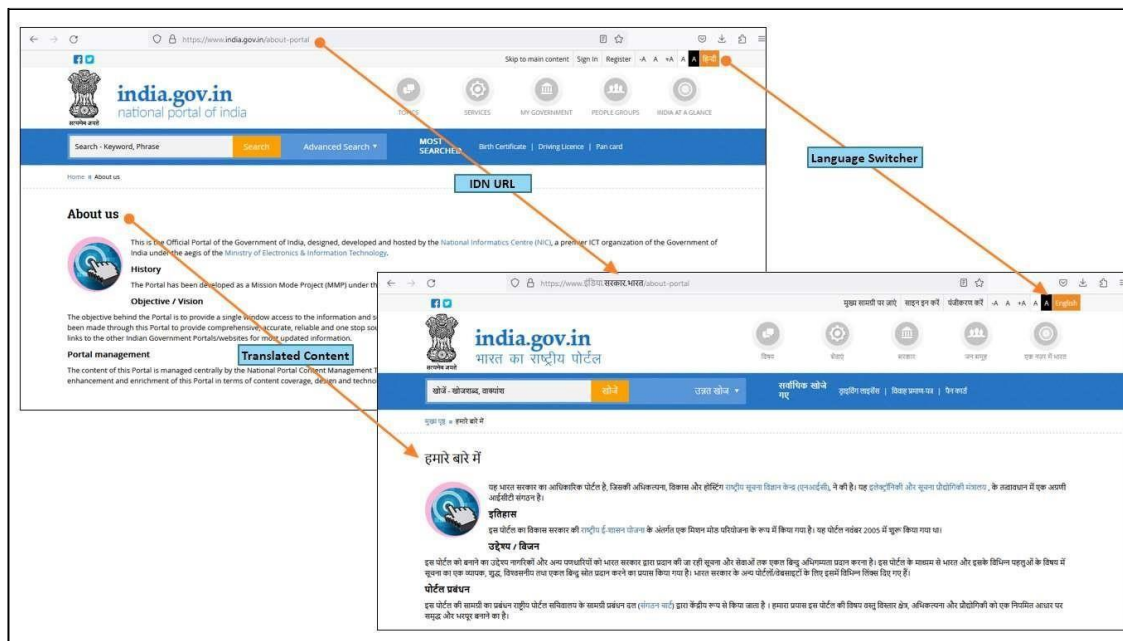


Figure 20: www.india.gov.in



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Indian Domain Website (.IN/.भारत)

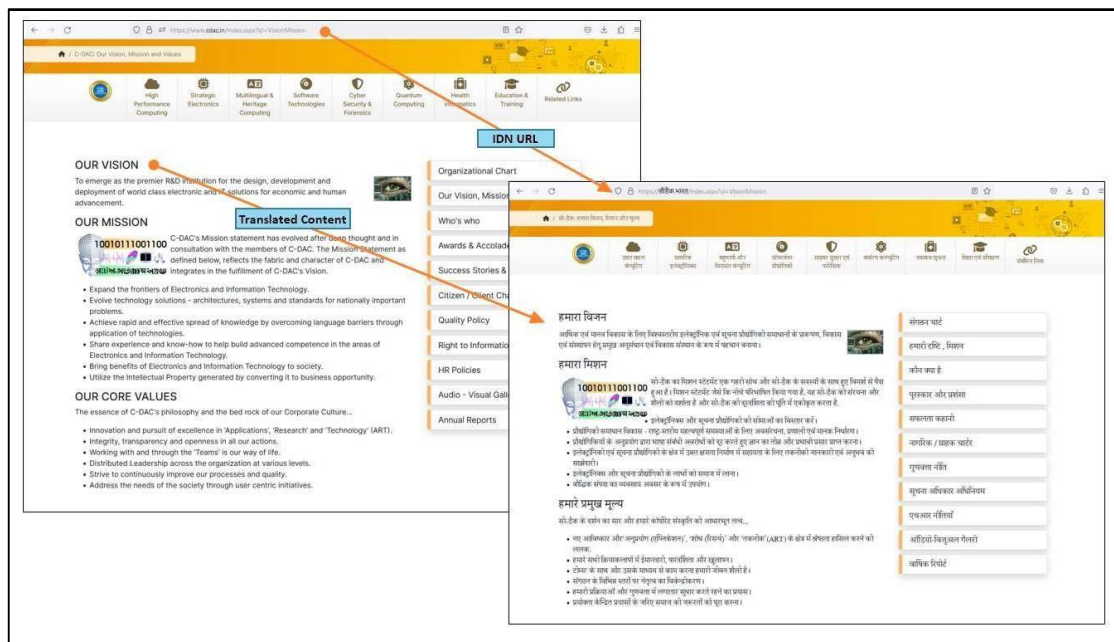


Figure 21: www.cdac.in

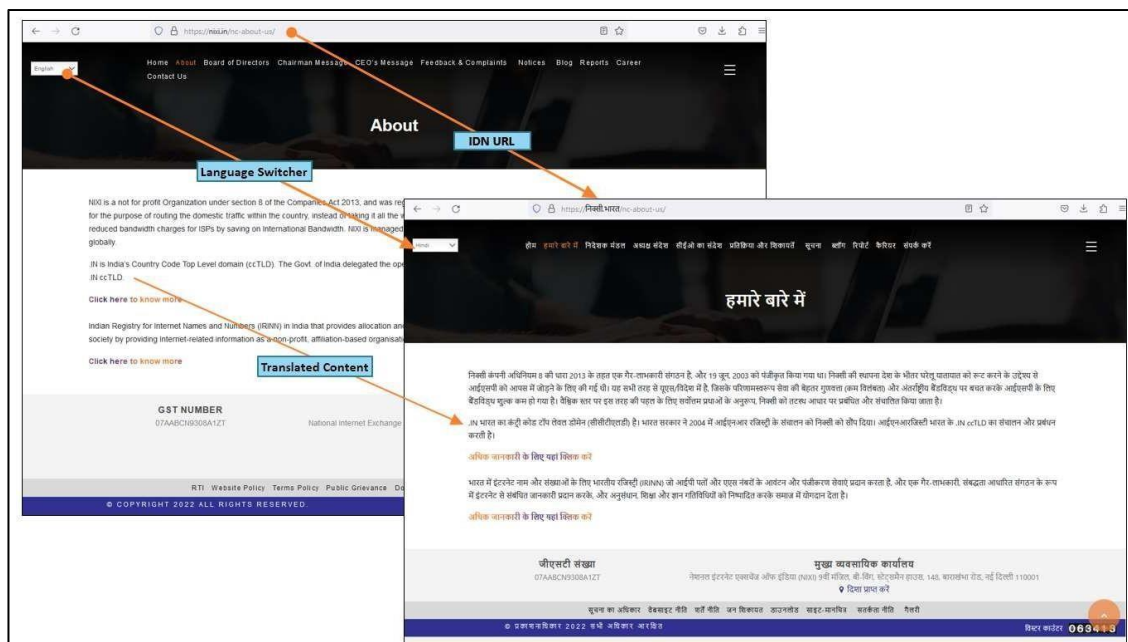


Figure 22: www.nixi.in



Thank You

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