```
In [10]:
import pandas
from sklearn import tree
import pydotplus
from sklearn.tree import DecisionTreeClassifier
import matplotlib.pyplot as plt
import matplotlib.image as pltimg
df = pandas.read_csv('dataset.csv')
lang = { 'ES' : 1,
        'FR' : 2,
        'GE' : 3,
        'IT': 4,
        'UK' : 5,
        'US' : 6}
df['language'] = df['language'].map(lang)
features = ['X1', 'X2', 'X3', 'X4', 'X5', 'X6', 'X7', 'X8', 'X9', 'X10', 'X11'
, 'X12']
x = df[features]
y = df['language']
dtree = DecisionTreeClassifier()
dtree = dtree.fit(x, y)
data = tree.export_graphviz(dtree, out_file=None, feature_names=features)
graph = pydotplus.graph from dot data(data)
graph.write_png('dtree.png')
img = pltimg.imread('dtree.png')
implot = plt.imshow(img)
plt.show()
# print(df)
```

