## **SPRINT-2**

## Data Publish to IOTDevice

SPRINT-2	14 November 2022	
Project name	IoT Based Safety Gadget for Child Safety Monitoring and Notification	
Team Id	PNT2022TMID33419	

```
from future
import
absolute import,
division,
unicode_literals
                   try:
                   from collections.abc import MutableMapping
                   except ImportError: # Python 2.7
                   from collections import MutableMapping
                   from xml.dom import minidom, Node
                   import weakref
                   from . import base
                   from .. import constants
                   from ..constants import namespaces
                   from .._utils import moduleFactoryFactory
                   def getDomBuilder(DomImplementation):
                   Dom = DomImplementation
                   class AttrList(MutableMapping):
                   def___init__(self, element):
                   self.element = element
                   def___iter__(self):
                   return iter(self.element.attributes.keys())
                   def___setitem__(self, name, value):
                   if isinstance(name, tuple):
                   raise NotImplementedError
                   else:
                   attr =
                   self.element.ownerDocument.createAttribute(name)
                   attr.value = value
                   self.element.attributes[name] = attr
                   def__len_(self):
                   return len(self.element.attributes)
                   def items(self):
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return list(self.element.attributes.items())

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def values(self):
return list(self.element.attributes.values())
def getitem (self, name):
if isinstance(name, tuple):
raise NotImplementedError
else:
return self.element.attributes[name].value
def___delitem__(self, name):
if isinstance(name, tuple):
raise NotImplementedError
else:
del self.element.attributes[name]
class NodeBuilder(base.Node):
def init (self, element):
base.Node.__init__(self, element.nodeName)
self.element = element
namespace = property(lambda self:
hasattr(self.element, "namespaceURI") and
self.element.namespaceURI or None)
def appendChild(self, node):
node.parent = self
self.element.appendChild(node.element)
def insertText(self, data, insertBefore=None):
text =
self.element.ownerDocument.createTextNode(data)
if insertBefore:
self.element.insertBefore(text,
insertBefore.element)
else:
self.element.appendChild(text)
def insertBefore(self, node, refNode):
self.element.insertBefore(node.element,
refNode.element)
node.parent = self
def removeChild(self, node):
if node.element.parentNode == self.element:
self.element.removeChild(node.element)
node.parent = None
def reparentChildren(self, newParent):
while self.element.hasChildNodes():
child = self.element.firstChild
self.element.removeChild(child)
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newParent.element.appendChild(child)
self.childNodes = []
def getAttributes(self):
return AttrList(self.element)
def setAttributes(self, attributes):
if attributes:
for name, value in list(attributes.items()):
if isinstance(name, tuple):
if name[0] is not None:
qualifiedName = (name[0] + ":" + name[1])
else:
qualifiedName = name[1]
self.element.setAttributeNS(name[2], qualifiedName,
value)
else:
self.element.setAttribute(
name, value)
attributes = property(getAttributes, setAttributes)
def cloneNode(self):
return NodeBuilder(self.element.cloneNode(False))
def hasContent(self):
return self.element.hasChildNodes()
def getNameTuple(self):
if self.namespace is None:
return namespaces["html"], self.name
else:
return self.namespace, self.name
nameTuple = property(getNameTuple)
class TreeBuilder(base.TreeBuilder): #
pylint:disable=unused-variable
def documentClass(self):
self.dom =
Dom.getDOMImplementation().createDocument(None,
None, None)
return weakref.proxy(self)
def insertDoctype(self, token):
name = token["name"]
publicId = token["publicId"]
systemId = token["systemId"]
domimpl = Dom.getDOMImplementation()
doctype = domimpl.createDocumentType(name,
publicId, systemId)
self.document.appendChild(NodeBuilder(doctype))
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if Dom == minidom:
doctype.ownerDocument = self.dom
def elementClass(self, name, namespace=None):
if namespace is None and self.defaultNamespace is
None:
node = self.dom.createElement(name)
else:
node = self.dom.createElementNS(namespace, name)
return NodeBuilder(node)
def commentClass(self, data):
return NodeBuilder(self.dom.createComment(data))
def fragmentClass(self):
return
NodeBuilder(self.dom.createDocumentFragment())
def appendChild(self, node):
self.dom.appendChild(node.element)
def testSerializer(self, element):
return testSerializer(element)
def getDocument(self):
return self.dom
def getFragment(self):
return base.TreeBuilder.getFragment(self).element
def insertText(self, data, parent=None):
data = data
if parent != self:
base.TreeBuilder.insertText(self, data, parent)
else:
# HACK: allow text nodes as children of the
document node
if hasattr(self.dom, '_child_node_types'):
# pylint:disable=protected-access
if Node.TEXT_NODE not in
self.dom. child node types:
self.dom._child_node_types =
list(self.dom._child_node_types)
self.dom._child_node_types.append(Node.TEXT_NODE)
self.dom.appendChild(self.dom.createTextNode(data))
implementation = DomImplementation
name = None
def testSerializer(element):
element.normalize()
rv = []
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def serializeElement(element, indent=0):
if element.nodeType == Node.DOCUMENT_TYPE_NODE:
if element.name:
if element.publicId or element.systemId:
publicId = element.publicId or ""
systemId = element.systemId or ""
rv.append("""|%s<!DOCTYPE %s "%s" "%s">""" %
(' ' * indent, element.name, publicId, systemId))
rv.append("|%s<!DOCTYPE %s>" % (' ' * indent,
element.name))
else:
rv.append("|%s<!DOCTYPE >" % (' ' * indent,))
elif element.nodeType == Node.DOCUMENT_NODE:
rv.append("#document")
elif element.nodeType ==
Node.DOCUMENT FRAGMENT NODE:
rv.append("#document-fragment")
elif element.nodeType == Node.COMMENT_NODE:
rv.append("|%s<!-- %s -->" % (' ' * indent,
element.nodeValue))
elif element.nodeType == Node.TEXT_NODE:
rv.append("|%s\"%s\"" % (' ' * indent,
element.nodeValue))
else:
if (hasattr(element, "namespaceURI") and
element.namespaceURI is not None):
name = "%s %s" %
(constants.prefixes[element.namespaceURI],
element.nodeName)
else:
name = element.nodeName
rv.append("|%s<%s>" % (' ' * indent, name))
if element.hasAttributes():
attributes = []
for i in range(len(element.attributes)):
attr = element.attributes.item(i)
name = attr.nodeName
value = attr.value
ns = attr.namespaceURI
name = "%s %s" % (constants.prefixes[ns],
attr.localName)
else:
name = attr.nodeName
attributes.append((name, value))
for name, value in sorted(attributes):
rv.append('|%s%s="%s"' % (' ' * (indent + 2), name,
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value))
indent += 2
for child in element.childNodes:
serializeElement(child, indent)
serializeElement(element, 0)
return "\n".join(rv)
return locals()

# The actual means to get a module!
getDomModule = moduleFactoryFactory(getDomBuilder)
```