

```
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17 ///////////////////////////////////////////////////////////////////
18
19 var viewer;
20
21 function launchViewer(urn) {
22   var options = {
23     env: 'AutodeskProduction',
24     getAccessToken: getForgeToken
25   };
26
27   Autodesk.Viewing.Initializer(options, () => {
28     viewer = new
Autodesk.Viewing.GuiViewer3D(document.getElementById('forgeViewer'));
29     viewer.start();
30     var documentId = 'urn:' + urn;
31     Autodesk.Viewing.Document.load(documentId, onDocumentLoadSuccess,
onDocumentLoadFailure);
32   });
33
34 }
35
36 function onDocumentLoadSuccess(doc) {
37   var viewables = doc.getRoot().getDefaultGeometry();
38   viewer.loadDocumentNode(doc, viewables).then(i => {
39   });
40
41   // add command here!!
42
43   NOP_VIEWER.container.onclick = function(event) {
44
45     var screenPoint = {
46       x: event.clientX,
47       y: event.clientY
48     };
49
50     let viewer_pos = NOP_VIEWER.container.getBoundingClientRect();
51     var hitTest = NOP_VIEWER.impl.hitTest(screenPoint.x - viewer_pos.x, screenPoint.y
- viewer_pos.y,true);
52
53     if (hitTest) {
54       console.log(hitTest.intersectPoint);
55       drawPushpin({
56         x: hitTest.intersectPoint.x,
57         y: hitTest.intersectPoint.y,
```

```
58         z: hitTest.intersectPoint.z
59     });
60 }
61
62 }
63
64 NOP_VIEWER.addEventListener(Autodesk.Viewing.SELECTION_CHANGED_EVENT, function (e)
65 {
66     e.dbIdArray.forEach(function (dbId) {
67         NOP_VIEWER.getProperties(dbId, function (props) {
68             console.log(props)
69         })
70     });
71 }
72 }
73
74 function onDocumentLoadFailure(viewerErrorCode) {
75     console.error('onDocumentLoadFailure() - errorCode:' + viewerErrorCode);
76 }
77
78 function getForgeToken(callback) {
79     fetch('/api/forge/oauth/token').then(res => {
80         res.json().then(data => {
81             callback(data.access_token, data.expires_in);
82         });
83     });
84 }
85
86
```