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在 GeoDatabase 中创建要素类

```
2 public IFeatureClass CreateFeatureClass2AccessDB (  String featureClassName,  UID classExtensionUID,  IFeatureWorkspace featureWorkspace )
3 {
4     // 创建字段集合
5     IFields fields = new FieldsClass();
6     IFieldsEdit fieldsEdit = (IFieldsEdit)fields;
7     // 添加 object ID 到字段集合中，创建要素类时必须包含该字段
8     IField oidField = new FieldClass();
9     IFieldEdit oidFieldEdit = (IFieldEdit)oidField;
10    oidFieldEdit.Name_2 = "OID";
11    oidFieldEdit.Type_2 = esriFieldType.esriFieldTypeOID;
12    fieldsEdit.AddField(oidField);
13    // 为要素类创建几何定义和空间参考
14    IGeometryDef geometryDef = new GeometryDefClass();
15    IGeometryDefEdit geometryDefEdit = (IGeometryDefEdit)geometryDef;
16    geometryDefEdit.GeometryType_2 = esriGeometryType.esriGeometryPoint;
17    ISpatialReferenceFactory spatialReferenceFactory = new SpatialReferenceEnvironmentClass();
18    ISpatialReference spatialReference = spatialReferenceFactory.CreateProjectedCoordinateSystem(
19                                (int)esriSRProjCSType.esriSRProjCS_NAD1983UTM_20N );
20    ISpatialReferenceResolution spatialReferenceResolution = (ISpatialReferenceResolution)spatialReference;
21    spatialReferenceResolution.ConstructFromHorizon();
22    ISpatialReferenceTolerance spatialReferenceTolerance = (ISpatialReferenceTolerance)spatialReference;
23    spatialReferenceTolerance.SetDefaultXYTolerance();
24    geometryDefEdit.SpatialReference_2 = spatialReference;
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25
26 // 将几何字段添加到字段集合
27 IField geometryField = new FieldClass();
28 IFieldEdit geometryFieldEdit = (IFieldEdit)geometryField;
29 geometryFieldEdit.Name_2 = "Shape";
30 geometryFieldEdit.Type_2 = esriFieldType.esriFieldTypeGeometry;
31 geometryFieldEdit.GeometryDef_2 = geometryDef;
32 fieldsEdit.AddField(geometryField);
33 // 创建字段"Name"
34 IField nameField = new FieldClass();
35 IFieldEdit nameFieldEdit = (IFieldEdit)nameField;
36 nameFieldEdit.Name_2 = "Name";
37 nameFieldEdit.Type_2 = esriFieldType.esriFieldTypeString;
38 nameFieldEdit.Length_2 = 20;
39 fieldsEdit.AddField(nameField);
40 IFeatureClass featureClass = featureWorkspace.CreateFeatureClass(featureClassName, fields, null, classExtensionUID,
41 esriFeatureType.esriFTSimple, "Shape", "");
42 return featureClass;
43 }
44
```