Low Poly Mesh Generator API is accessible:

- (c#) using VacuumShaders.LowPolyMeshGenerator;
- (java) import VacuumShaders.LowPolyMeshGenerator;

Simple and Skinned mesh conversion

```
static public Mesh GenerateLowPolyMesh(Renderer _renderer, out CONVERTION_INFO[] _buildInfo, out string[] _buildInfoFull, LowPolyMeshOptions _data)

_renderer = active gameobject renderer (must contain mesh and material components).

_buildInfo = this variable will contain conversion info.

_buildInfoFull = this variable will contain conversion info with detail explanation.

_data = LowPolyMeshOptions class object contain info for generating faceted mesh.

Note:

Textures and Models need to be readable.

Unity readable texture formats are - ARGB32, RGBA32, BGRA32, RGB24, Alpha8 and DXT.

If conversion fails, returned mesh will be null, _buildInfo and _buildInfoFull will contain detail info.
```

Simple Mesh combiner

Checks if meshes in _parent can be combined.

```
static public COMBINE_INFO CombineMeshes(Transform _parent, out Mesh _combinedMesh)
Combines child meshes in _parent and returns result in _combineMesh.

COMBINE_INFO contains info about combine (success or fail).

static public COMBINE_INFO CanBeMeshesCombined(Transform _parent)
```

Same function as GenerateLowPolyMesh() but with combining meshes of _paranet.

_data – LowPolyTerrainOptions class object contain info for generating facetd mesh.

Terrain Conversion

```
public class LowPolyMeshOptions
          public enum SAMPLING_TYPE { Hard, Smooth }
          public enum ALPHA { MainTextureAlpha, MainTextureAlphaInvert, One, Zero,
                            SeconTextureAlpha, SeconTextureAlphaInvert, BlendAdd,
                            BlendMultiply, BlendDecal, VertexAlpha, VertexAlphaInvert
          public enum BLEND_TYPE { Add, Multiply, Decal, Detail, MainTextureAlpha,
                                 MainTextureAlphaInvert, SecondTextureAlpha,
                                 SecondTextureAlphaInvert, VertexColorAlpha,
                                 VertexColorAlphaInvert
          public SAMPLING_TYPE samplingType;
          public string texture_1_Name;
          public bool texture_1_useMipmap;
          [Range(0.0f, 1.0f)]
          public float texture_1_mipmapBias;
          public bool texture_1_useBlur;
          [Range(1, 64)]
          public int texture_1_blurAmount;
          [Range(0, 5)]
          public int texture_1_blurDownSample;
          public string texture_2_Name;
          public BLEND_TYPE texture_2_blendType;
          public bool texture_2_useMipmap;
          [Range(0.0f, 1.0f)]
          public float texture_2_mipmapBias;
          public bool texture_2_useBlur;
          [Range(1, 64)]
          public int texture_2_blurAmount;
          [Range(0, 5)]
          public int texture_2_blurDownSample;
          public string colorName;
          public bool includeVertexColor;
          public ALPHA alpha;
          public bool mergeSubMaterials;
          public bool combineMeshes;
```

```
public class LowPolyTerrainOptions
         public enum SAMPLING_TYPE { Hard, Smooth }
         public enum ALPHA { TextureAlpha, TextureAlphaInvert, One, Zero }
         public int chunkCountHorizontal;
         public int chunkCountVertical;
         public int vertexCountHorizontal;
         public int vertexCountVertical;
         public SAMPLING_TYPE samplingType;
         public bool useMipmap;
         [Range(0.0f, 1.0f)]
         public float mipmapBias;
         public bool useBlur;
         [Range(1, 64)]
         public int blurAmount;
         [Range(0, 5)]
         public int blurDownSample;
         public ALPHA alpha;
```

Check run-time example scenes.