**2-5 Milestone One: Project Proposal**

Joshua Brown

Department of Computer Science, Southern New Hampshire University

CS – 330: Comp Graphic Visualization

Professor Gary Scott, M.S.

November 5, 2023

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**A close up of a wood surface

Description automatically generated**A fork and a mug on a table

Description automatically generated**A cup and fork on a table

Description automatically generatedA cup with a spoon and fork

Description automatically generated**

* Plane: Desk:
  + Create in 2D: This will serve as the background, so there is no need to include a 3D version of this object.
    - Flat plane with color/texture background
* Object 1: Coffee Cup:
  + Create in 3D: Formed using simple shapes that can be created using two methods, one more complex than the other.
    - Method 1: Cylinder with inside cut away using a smaller cylinder for the main body. Half of a torus can be added to the side for the handle.
    - Method 2: Cylinder for the body of the cup, and images placed on the top to appear as if the cup is empty. Half of a torus can be added for the handle.
* Object 2: Fork:
  + Create in 2D: Because the object is pretty thin anyway, it would be great to create in 2D viewing it from above leaving out the height ,which would normally be seen from the side view.
    - Four cubes stretched out along the y-axis and shrunk in along the x-axis. Joined with a cube that starts at the ends of fork cubes 1 and 4. The end of this cube gets shrunk along the x-axis as both sides get brought in. Finally, a cube finishes it out; it is stretched out along the y-axis and remains the same size along the x-axis.
* Object 3: Medicine Bottle:
  + Create in 3D: An easy object to create using a cube and a cylinder.
    - The body is a cube, where the y-axis is longer than the x-axis. The cap of the bottle should be a cylinder.
* Object 4: Cordless Jump Rope
  + Create in 3D: The handle and connection piece will be comprised of different shapes and sizes. The cord may be the hardest element to create since it is a cylinder, but it can curve.
    - Handle: A total of 9 cylinders can be created (5 larger and 4 smaller), where the outermost cylinder is a larger cylinder; followed by a smaller cylinder; followed by a larger cylinder… until the full handle is created.
    - Cord Connection: Circler on the flat portion and triangular on the sides. The curved portion of the link meats the flat portion of the other link. Both links are circular on the ends that connect the handle and the rope.
    - Cord & Ball: A long cylinder that has a sphere on the end.