U08181 Coursework part 2

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For this coursework I tried to make use of as many features of X3D that I could. I have used the following features:

- 1. Use of primitives such as cylinders and boxes
- 2. Use of indexed face sets
- 3. Use of textures
- 4. Use of animations
- 5. Multiple viewpoint definitions
- 6. Light sources

The majority of the strucutre was created using indexed face sets. I found these easy to use and they leant themselves to walls and stairs etc. I did apply texutres to a few of these but ran out of time. Applying a texture to an indexed face set isn't as straight forward as it is to apply them to primitives, unfortunatley I only just really got the hang of this towards the end of the coursework. My group DEF "lift" shows how I believe textures are meant to be correctly mapped.

For the chairs I used a combination of indexed face sets and cylinders, this object was defined as a group and used a second time but translated across the room.

The animation was accomplished using a time sensor. I didn't have time to get to grips with the differet kinds of touch sensor, I would have liked to have implemented a door handle that triggered the door to open but I ran out of time

I defined the following viewpoints:



Front:



Front Angle:



Conclusion:

I would have liked to have spent more time looking at textures, unfortunately I didn't get time to apply textures to all surfaces and I'm still not completely happy with how to use them with indexed face sets. I would have liked to have done more with animation, in particular touch sensors but time did not permit this. I found the software "X3dEdit" was a huge hindrance to my progress, the software was unreliable and failed to run on a few of the machines I have access. I also found that

some of the viewpoints, the landing view in particular didn't render correctly until some user interaction forced it, eg , changing the viewing angle.