

## **CSS 450 Final Report**

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### **User Manual**

First, set the timeline at the time the animation will stop.

Next, choose what kind of transformation you want performed (Rotation or Translation) with switching between the Radio Buttons. The system supports rotation of each individual part, and translation of the whole body.

Next,

- If the transformation chosen is Translation, left mouse button down will translate the whole body so that the hero's pivot will be at left mouse button down position.
- If transformation chosen is Rotation:
  - To choose a body part to rotate: right click on the body part to rotate
  - To rotate the chosen body part: drag the mouse **around the pivot** of the chosen body part. The pivot is defined as the red circle of the body part.
- When finished with the transformation for this key frame, click SET KEY button
- You can repeat the above process to set up the next key frame

#### **Buttons:**

PLAY – plays back the whole animation

REPLAY – self -explanatory

STOP – stops the animation

SAVE – save to a file with .anim extension

LOAD – loads previously saved .anim file

To play an animation from file loaded, click the PLAY button.

# System Architecture

Figure 1 Hero Design

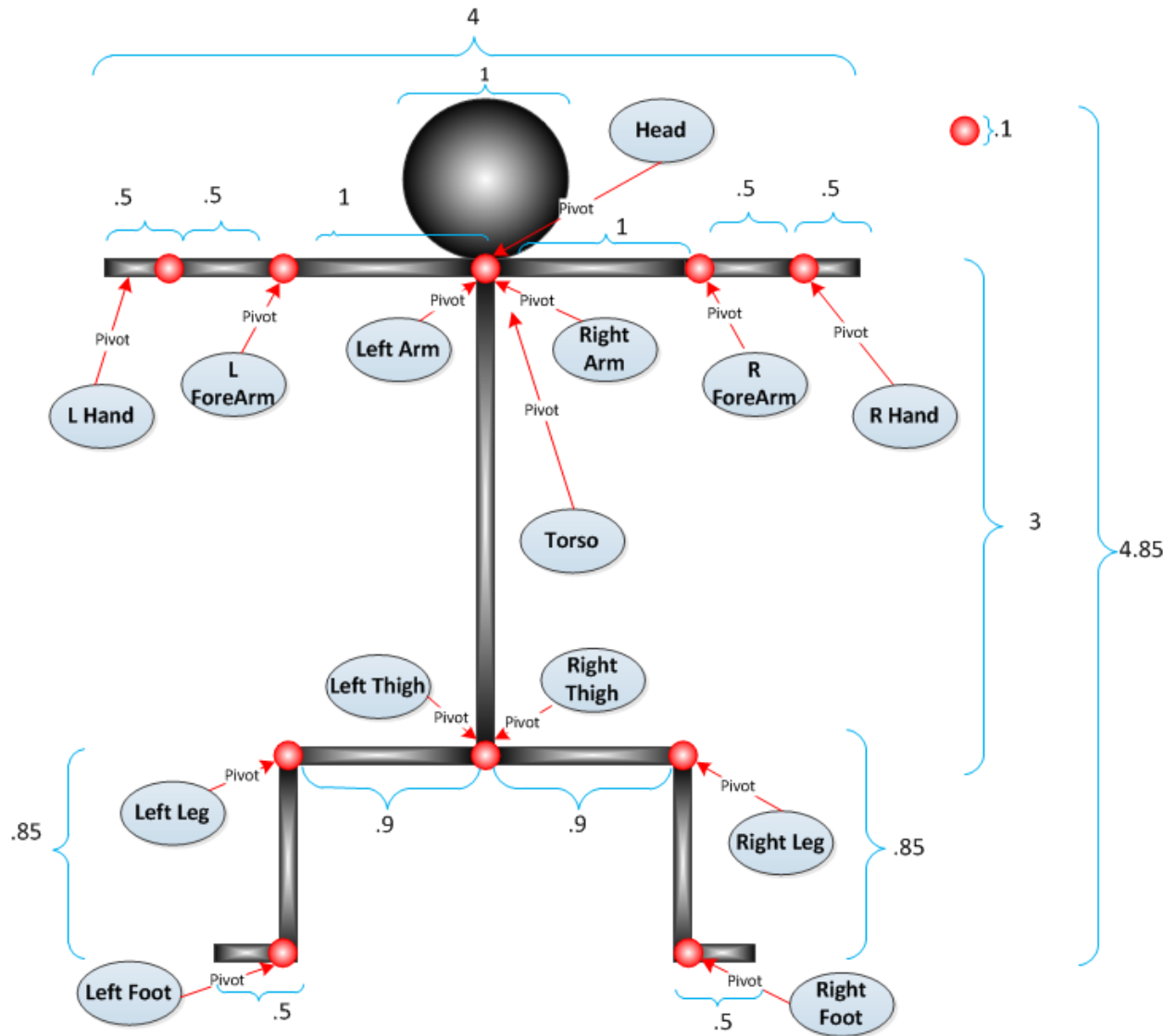
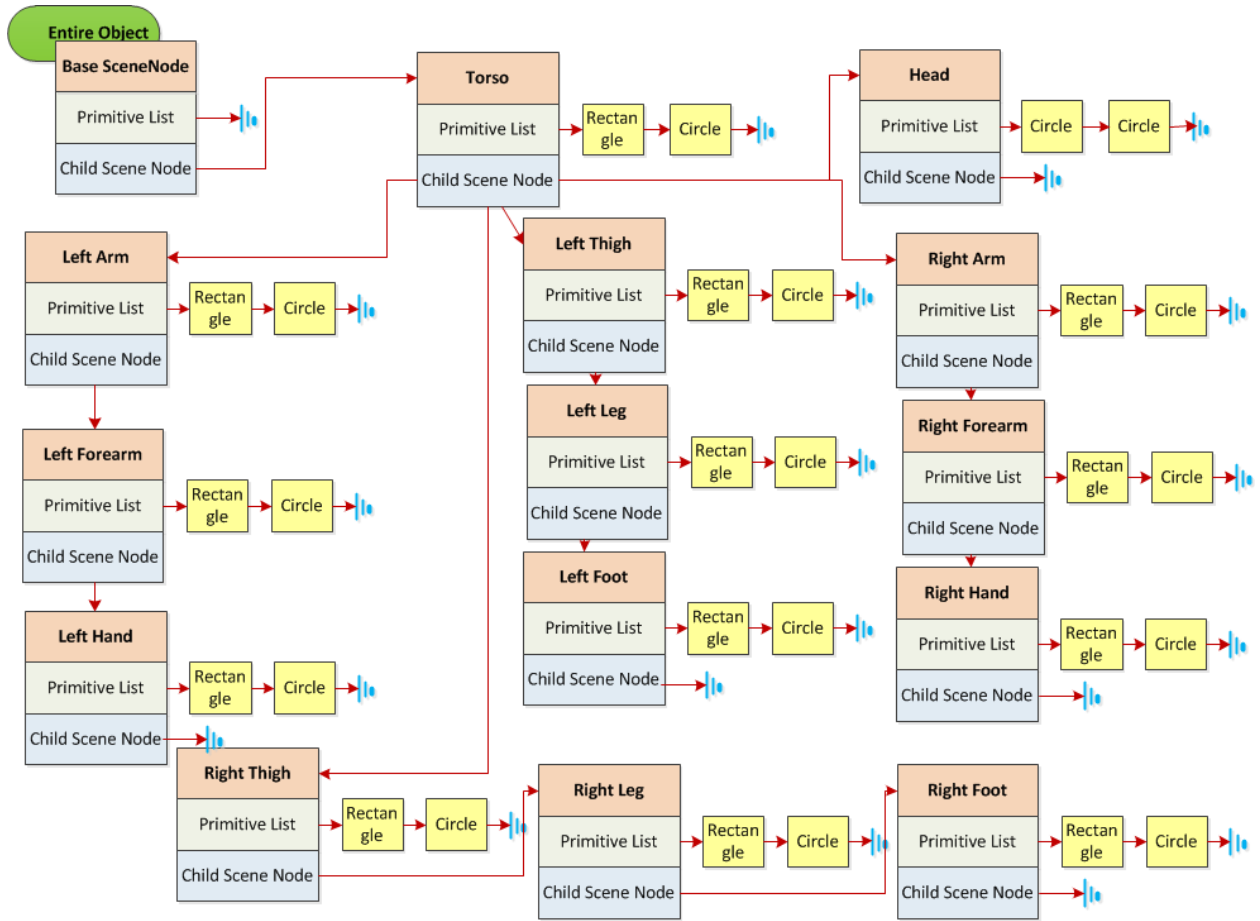


Figure 2 Hero SceneNode Architecture





2. Clear Animation control - in a future update we would need a button that would clear out the current animation and provide a new setup.
3. Undo - self explanatory, an undo button that goes back a step at a time.
4. Reset without playing control - a control that would reset the animation to the beginning without having to play
5. Ability to insert keyframes - currently we cannot insert keyframes into the animation, any new keyframe has to be after the last one.
6. Hot-Keys - addition of hotkeys that would do basic tasks like switch between the rotation and translation selections, etc.