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| HKUPSY |
| Experiment1 |
| Use Case Descriptions |

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| Wayne  12/15/2010 |

# Use Case Diagram

# Use Case Description

In this section, I will discuss the use case descriptions of all the use cases.

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| Use Case Name: | Do the experiment | |
| Use Case Number: | #1 | |
| Actors: | Subject | |
| Description: | Subject does the experiment | |
| Pre-condition: | Researcher set the configuration | |
| Post-condition: | N/A | |
| Assumption: | N/A | |
| Typical course of events | Actor | System |
| Step 1. Initiate the use case when the system is ready for the actor to carry out the experiment.  Step 3. Press the space bar to start the experiment.  Step 6. Press up-arrow key or down-arrow key to adjust the shape of the 2D-view, such as pressing the up-arrow key for increasing the radius, and the down-arrow key for decreasing the radius.  Step 8. Press the space bar to confirm the modification, or go back to Step 6 to adjust again.  Step 10. Go back to step 3 until the expected number of sessions and trials finished | Step 2. Show the string “Press Space Bar to Start” with section number and total number of sections.  Step 4. Choose one object from the object base.  Step 5. Show the 3D-view of the object from z-axis at the left part of the screen, and continually rotate it by the y-axis back and forth; Show the 2D-view of the object from the y-axis (top of the object) on the right part of the screen, using orthogonal projection. The shape of the 2D-view may be distorted (zoomed, enlarged, using a random radius etc.).  Step 7. Update the adjusted 2D-view according to the key the subject pressed.  Step 9. Record the all available information of the trial, such as trial number, object number, initial aspect ratio, aspect ratio after adjustment, and so on.  Step 11. Show “Experiment finished” and exit the program. |
| Alternative course of events |  | |