Project Identity
Interactive Wheel of Fortune Game
Week 10
April 12, 2007
Kristen Gingras

Work Completed

The painting and construction of the wheel was completed over the past week. On Friday April 6, 2007 the wheel was coated with an additional layer of protecting spray paint. On Wednesday April 11, 2007 a visit to the machine shop was scheduled. The main goal was to attach the wooden block to the base of the game. Due to the fact that Yavi was testing the circuit and using the motor (that is encased in the wooden block) we were not able to accomplish this. Instead we took the time to analyze the wheel and see what needed to further be done. We noticed that the dowels were originally attached to the center of the pie piece. See Fig. 1 for original attachment.

Figure 1: Original dowel attachment

This is not a practical attachment. When the wheel spins there is the possibility of the clicker landing in the middle of two pie pieces. Thus it was decided to move the dowels all to the left of each pie piece. The left position was chosen due to the fact that the motor spins the wheel clockwise. Thus each time a dowel is hit with the clicker it will be pushed against the side of the pie piece which will make the function time last longer. Please see Fig. 2 for this new attachment.
Due to the fact that the dowels had to be take out and then put back in some of re-painting had to be done to cover where the dowels had originally be placed. This was done carefully as not to drip paint on the numbers or any inappropriate places. After new paint was applied the additional top coat could be applied to protect the new paint. The wheel was not complete.

On Friday April 6, 2007 the questions and answers were completed. The questions and answers needed to be divided up into questions that could be asked by the staff member and questions that could be recorded onto the tape recorder and used by the adults when they were playing the game by themselves. Twenty questions and answers were composed that could be read by the staff members. Keeping them at an elementary level, some examples of the questions asked were:

What color is the sky?
What noise does a cat make?
How do you spell T-R-U-C-K?
What is my name?
How many boys are there in the room?

Most of these questions had specified answers. However questions such as the last two example questions could have multiple different answers, depending on the situation in the room. Thus these questions are only to be used when a staff member is conducting the game. A series of ten questions and answers were then made to be recorded on the tape recorder. Again, keeping them at the elementary level, examples of these questions are as followed:

Does it snow in the summer or the winter?
What do you smell with?
How many legs does a dog have?
For what holiday do you wear a costume?

These sample questions and answers were then sent to our client, Dr. Brooke Hallowell. It would be best to have her look them over and decide if they were appropriate to use. Most questions and answers were able to be used. However the adults do not know how to spell so all questions that involved this as an answer had to be removed. She made the suggestion to replace them with questions such as?

Name something you can write with.
Name a holiday.

Again, due to the fact that these can have multiple answers they will only be used in the questions to be used when playing with a staff member.

Future Work

The questions and answers will be re-done and sent to Dr. Hallowell for review. Upon their completion, a binder along with plastic sheets can be purchased. Questions and answers can be typed up and recorded. This will conclude that portion of the game. The wooden block will be attached to the base of the game. Upon this attachment, testing of the durability of attachment will be conducted. This will have to be very sturdy so that wheel does not wobble when it is being spun. The shaft will be cut down due to its size being to large. It will be re-lathed so as to have the correct diameter. Once this is completed, the wheel can be press fitted.

Project Review

Much planning progress was done. The game was analyzed to see what needs to be done in the next few weeks. Priorities were made so as to see what needs to be still ordered. We were a little pushed back on construction. However will extra time spent in the lab this coming week we will be able to push this forward. The game looks as though it will be completed by due date.

Hours Worked
11 hours