9/19/21 Meeting Minutes  
Topics to discuss

Task that need to be done

Plan of Action

Assignments due

Research that has already been done

**2:02 PM - Meeting Started**

**Team Name -** Cold Fries

**Location met -** Discord

5/5 Attendance - Everyone Present

**2:07 - Task that need to be done:**

**Sketching and Modeling.** We want people to create a sketch so that it can be modeled.

**Research.** Currently we are looking at sources that will help with the development of the pet feeder. Every person is looking to do a bit of research in some ways. In addition to that, everyone has to come up with a sketch of some sort as to what they envision the pet feeder will look like, from there, we will have people modeling up a sketch to have a rough estimation of what it would be.  
  
Khai - 5 research sources & CATIA modeling

Michael - 5 research sources & BLENDER modeling

Kenny - 5 research sources & CATIA modeling

Davin - 10 research sources

Kevin - 10 research sources

**2:29 - Plan of Action**

We need every person to create a sketch of some sort, so far, Kenny is the only person who has created a sketch.  
  
We then need people to model it, we want this modeled before the presentation to have a visual so that people can see what it is.

When it comes to modeling, we do not want the pet feeder to be any larger than 4’ x 4’ x 4’. Although that is our only constraint, it does not need to be properly dimensioned at this stage. We will also want to grab the 5 gallon water jugs that already exist and model those in CATIA as well. This will not only give us a reference, but a way to use already existing products that incorporate into our technology.

**2:44 - Assignments due**

This upcoming week is a busy week  
Journals are due 9/26

Our Project Proposal write up is due 9/26

Meeting minutes are due 9/26

Presentations are on October 1st/8th

Self assigned deadlines. Depending on when we present, we want the research AND the modeling to be done by either September 30th or October 7th. This is so when we present, we know what it is we have so far and a rough sketch as to what it is we think it will look like.  
  
Since these are major parts of our grade, we want this all to be done in a timely manner with the most time and effort available.

**3:06 - Research**

We do have some research done so far. We still have a lot more to do but this is what we have discussed.

**Electrical side Research**

* Actuators use electricity and turn them into a mechanical force
* Solenoids are a way in which hatches can be done, in which a coil has a magnetic lever or rod into it, if it turns on, the electromagnetic field is activated and it shoots a lever open or closed
* When connecting to the internet, we need some sort of device that will connect to the IoT, which can be done with devices such as z-wave and Zigbee
* We have sources of already existing smart cat feeders that also give us a glimpse as to what to do and not to do. We need to take ideas like that and implement a smart aspect into it
* There are some good starter kits on Amazon that include bread boards, resistors, capacitors and more so that we can have a small grounding basis to work with. In addition to that, Kenny also already has a small kit that can be used.

**Coding side Research**

* When looking at coding, we need a website to begin with.
* Since websites cost money to host, this can be set up on a local machine as an offline website, then we can have every user remote into that local machine and do their coding on that system.
* Since we do not want the code/files to be lost, all information will be stored on that local machine & a cloud based server of some sort to ensure we do not lose progress
* When looking into the website, it looks like it will primarily be HTML and Javascript to help create the GUI and the commands.
* When looking at what needs to be done, we want accounts to be made so that every user can login and have access to their own switch(s).

**3:31 - Wrap up**

**Summary of Meeting (1 to 2 paragraphs)-**

Team went over tasks that each individual needs to have done by the end of this coming week as well as what the group needs as a whole. Plan of action was enacted to reach those goals. Team members have assignments due and we plan to reach consensus on the project and timeline goals for the two semesters for the assignments due next weekend.

**Total Meeting Time - 1 hour 29 mins**

**Individual Contributions (1-3 sentences)**

**Kenny - Edited the Team meeting minutes, talked and led the meeting as to what needed to be done, Created a sketch, began researching**

**Kevin - Began Researching and came up with ideas as to what could help in the creation of project. Plans to find at least another 5 resources as well as finishing the sketch for the group. Focus on resources and project deadlines for next weekend. Trying to figure out what all electrical components that can be included in the product and be done within the timeframe of the total project.**

**Khai - finalizing vision of the pet feeder through Catia and researching in website development.**

**Michael - Began researching, made 3d sketch mockups, and got a electrical toolkit for the team**

**Davin - Began researching and figuring out how to best connect the device to the internet, so that the site can communicate with the device and sketching pet feeder**

**Team accomplishments for the week (1 to 2 paragraphs)-**

**Made several design mockups in 3D to give reference to our dog feeder. Got an electrical arduino starter kit for the team. Researching about types of platforms to build our product on, and some basic background on how to connect the software side of the internet to a hardware product. Looked at the aspects of other products that have been designed and noted the positives and negatives of those designs.**

**Issues -** Since Kenny was the first person to submit his sketch, it is hard to imagine a different way as to how the pet feeder would look. So coming up with a unique view as to how it would look may be complicated. After finishing research, there are very complex ways to go about creating a website and creating the electrical/mechanical aspect of this project. We need to pick the parts that we like from different existing electrical pet feeders and put it together into a unique view.

**Tasks that were assigned/ Plan:**

Finish up the researching task that was assigned last week. Kenny, Khai, Michael, Kevin, Davin  
Finish and send in design sketches for the pet feeder. Khai, Michael, Kevin, Davin

Design and send the 3D model of the pet feeder. Kenny, Khai, Michael

**Next Meeting Date & Time - TBA**

**Meeting Location -** Discord