9/12/21 Meeting Minutes  
Topics to discuss

What is essential for the pet feeder  
Optional things for the pet feeder (things that we can add in later but aren’t necessarily required)

How we plan on splitting up the work

When we plan on starting

Research

Budgeting

Treasurer

**1:03 PM - Meeting Started**

**Team Name -** Cold Fries

**Location met -** Discord

5/5 Attendance - Everyone Present

**1:10 - Essential for the pet feeder:**

**Having an app/website.** App should have a dog feeder activation method. Having 2 working GUI buttons to control different foods. Optional scale to weigh dog food, later down the road. Water mechanic using capillary to fill bowl. Having smart options in the app.

Research and learning tools.

Implementation: app to internet to hardware

-Android

-Apple

-website: ←-- route we want to start with. App later if timely

-credentials to the app

-a host server

-software to hardware

**Electrical side**

-hardware to software

-hardware and internet

-PCB? Or arduino, ras pi, microcontroller

-breadboard applicable

-inputs to be read from each servo, modules, actuator, weight sensor, etc.

-dispenser (solenoid, actuator, auger, DC-D)

-flap or slide door

Flap door would have to be able to push 10lbs of force back up or slide door would have to be able to close.

* How do candy machines work?
* How has this been implemented before with other ‘autofeeders’

AC input from outlet to DC

-transformer to step down voltage to be able to supply enough power to

- what are the input voltages to determine certain outputs

-pass through would be nice

**Mechanical stuff**

-1 water dispenser w/ shut off valve, two pet feeders

-needs a base level with built in bowls (everything should be detachable)

-5 gallon water jugs or something similar with a top that can be unscrewed

**1:27 - Optional Things**

App. Weight/Sensors for food amount. Confirmation feed button. Cancel dispensing button/feature. History list for feed times, amounts, etc.

Detachable bowl. Strong bowl material.

**1:52 - Plan on splitting the workload**

Software/coding will be Michael, Davin, and Khai.

Last week of class was a presentation.

Month of April: Debugging phase

March: Project finalization.

February: Pick what we need (including optionals) and finalize

January: The building phase

September+October: research/learning

November+December: Pre-building/prototype phase

**2:06 - Starting plan**

Research phase from now -> end of october

**2:08 - Research**

Software side: Resources on how to start websites. Programming websites. Website tools implementation.

All CS sides must be able to collaborate together.

Electrical/Mechanical will begin research. How to implement hardware to the internet to software.

**2:19 - Budgeting**

400$. Most budgeting will go to hardware and electrical.

Around 150~250$.

Email/Contact WSU are arduino.

**2:20 - Treasurer Position**

Kevin is set as treasurer.

**2:47 - Wrap up**

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

**Total Meeting Time - 1 hour 50 mins**

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

**Kenny - Edited the Team meeting minutes, talked and led the meeting as to what needed to be done, helped created a future schedule (Plan of action), Assigned task**

**Kevin - helped figure out ideas for electrical side; treasury position; have research questions I need to bring answers, or ideas, for next week.**

**Khai - Added to the project plan and will be tasked to do the design of the product**

**Michael - Helped come up with designs ideas and will help setup website**

**Davin - Edit the project proposal and tasked to help setup website along with figuring out what we need on the site.**

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

The team has narrowed down the scope and have set rough deadlines to when to have specific key tasks done. Progressively we will add more optional things as goals are met and will discuss if the time left is optimal enough to finish any additional tasks. Team has defined areas of skill and what portion of the work will be given to each person. We took a long outlook approach that is tentatively set-up by month for our deadlines (this will be defined more thoroughly within two weeks when deadline and outlook is due). As tasks have been delegated, everyone will play an essential role in the progression of the project, starting with the research and the general design of the project.

**Issues -** The CS side needs to learn how to use app making software and website build. CE/EE side needs to learn hardware to software. We also need to find a cost/performance ratio which will allow us to stay within the budget while also accomplishing what needs to be done.

**Tasks that were assigned/ Plan:**

Khai, Michael and Davin are tasked with learning or relearning HTML in order to build a website.

Kenny and Kevin are tasked to learn about devices to wifi and how the connectivity will be established.

Davin and Kevin are tasked to research in finding what would be deemed as helpful in the creation of the project at hand. Michael, Khai and Kenny will aid in that but not to a full extent as they will focus on creating the 3d mock up.

Every member of the project will have to create their idea of what the project will look like, then send those ideas to Michael, Kenny, Khai in order to design and create a 3d model.

Michael, Khai, Kenny have to design a rough sketch of the product idea in a 3d model.

**Next Meeting Date & Time - Thursday 9/16**

**Meeting Location -** Discord