**WEEKLY REPORT and MEETING AGENDA**

Report #: 6 Project Name: SPICE

Date: 4/12/2023 Prepared by: Carlos Zapata III

**Agenda for the meeting**

1. 3D print progress and updates
2. UI issues across Windows and Raspberry Pi
3. Simplified connection system

**Overall accomplishments since last meeting**

1. Iterated housing and Bearing Gear
2. Database displays recipes on UI
3. Downloaded packages to Pi

**Tasks completed by each team member since last meeting**

| Task description | Assigned to | Completed? |
| --- | --- | --- |
| Redesigned and fabricated parts | Carlos | Yes |
| SQL Server setup, connection between database and UI | JP/Caleb/Carlos | Yes |
|  |  |  |

**Plans for next period**

1. Finalize 3D part design
2. Get final prints
3. Finish Serial Connection between UI and Arduino
4. Fabricate base for bearing table connection
5. Get Stepper motor working with bearing table
6. UI working on Raspberry Pi or work around

**Task assignment per team member (to be completed before the next meeting)**

| Task description | Assigned to |
| --- | --- |
| Finalize 3D part design | Carlos |
| Get Final Prints | Carlos |
| Finish Serial Connection between UI and Arduino | Kile/Caleb |
| Fabricate Base | Carlos/Caleb |
| Stepper Motor Function | Kile |
| UI working on Raspberry Pi or work around | JP/Kile |

**Project management status**



**Minutes from previous meeting**

Meeting Minutes (April 6th):

* Karl: Demo Day is 4/26
  + Demo with Karl, Dr.M, and Team
  + Functional run through of product
* Karl: Give me the update on the print shop
* Caleb: Technicians printed much faster than we could, got print done in about a day
  + Feel better about being able to print
* Karl: Update on Database
* JP: Sticking with SQL database, local, got connected to UI
  + Want to make UML diagram
* Caleb: Work around for database, make a single table with recipes and spices in one
* Karl: Does the database work on Pi?
* Caleb: Not sure, need to make sure it’s compatible with Raspberry Pi
* Karl: Mentioned you have things for motor control
* Caleb: Mainly communicating through serial monitor
  + - If we can get a uniform structure of communication we should be good
* Caleb: If we only have 3-4 spices will that be an adequate show of functionality?
* Karl: That should be fine, ideally will be able to get more, but can say that it’s scalable
  + Need to think about time, shouldn’t be a big deal if you can’t get 8 spices