User Manual

Year: 2019 Semester: FAll Team: 8 Project:\_\_\_\_\_\_Condiments Express\_\_\_\_\_

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Assignment Evaluation:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Score (0-5)** | **Weight** | **Points** | **Notes** |
| **Assignment-Specific Items** | | | | |
| **Product Description** | 4.5 | x1 | 4.5 |  |
| **Product Illustration** | 5 | x2 | 10 |  |
| **Setup Instructions** | 5 | x3 | 15 |  |
| **Usage Instructions** | 5 | x3 | 15 |  |
| **Troubleshooting Instructions** | 5 | x3 | 15 |  |
| **Writing-Specific Items** | | | | |
| **Spelling and Grammar** | 4.5 | x2 | 9 |  |
| **Formatting and Citations** | 5 | x1 | 5 |  |
| **Figures and Graphs** | 5 | x2 | 10 |  |
| **Technical Writing Style** | 5 | x3 | 15 |  |
| **Total Score** | 98.5 | | |  |

5: Excellent 4: Good 3: Acceptable 2: Poor 1: Very Poor 0: Not attempted

Comments:

*Comments from the grader will be inserted here.*

Nicely written. Please have a look at the minor comments.

1. Product Description

Nowadays, people care most about the efficiency in their hectic day, even for food. As we all know, eating at restaurants or consuming fast food every day is neither practical nor healthy. Also, cooking on hands in free time takes too much time for us. Therefore, “Condiments Express” comes up to help you enjoy the benefits of homemade food while reducing the time you need for traditional cooking style.

“Condiments Express” is the new frustration-free kitchen appliance that automatically dispenses all the reasoning and condiment you need in a spoon step by step. It is designed for all types of dishes and its considerable size is suitable for the home kitchen. In order to mostly reduce the time in the cooking process, the operation is designed to be easy for people as long as people can read the words it shows on OLED or phone application.

1. Product Illustrations

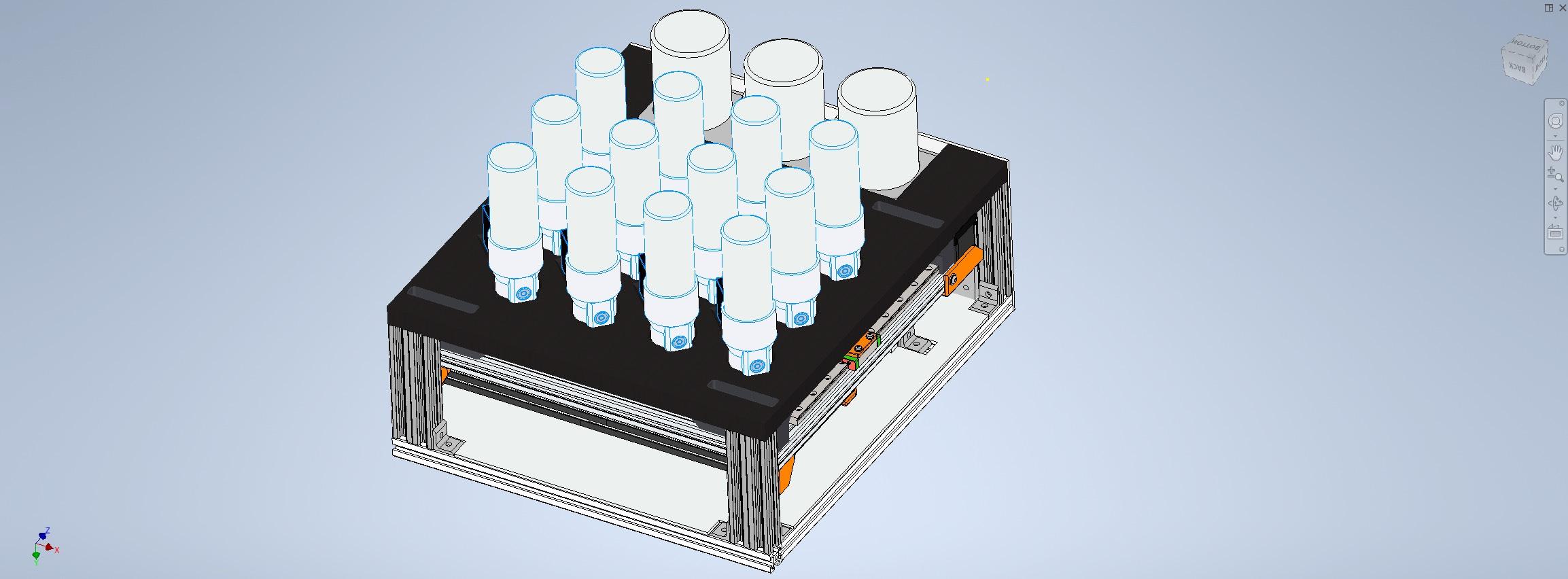


Figure 2.1 overall machine of Condiments Express

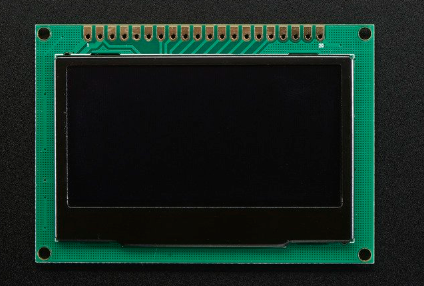
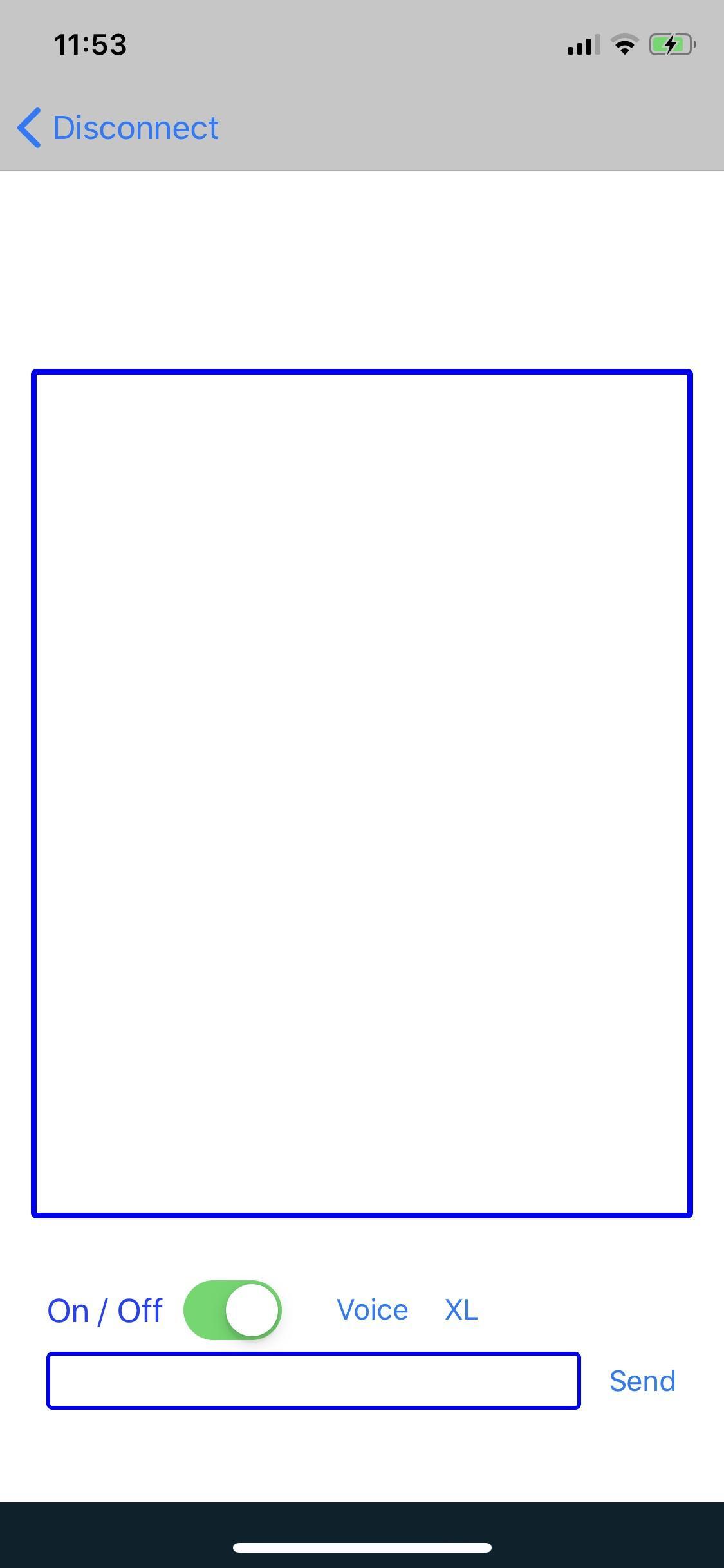
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Figure 2.2 User interface (OLED) Figure 2.3 User interface (IOS App)

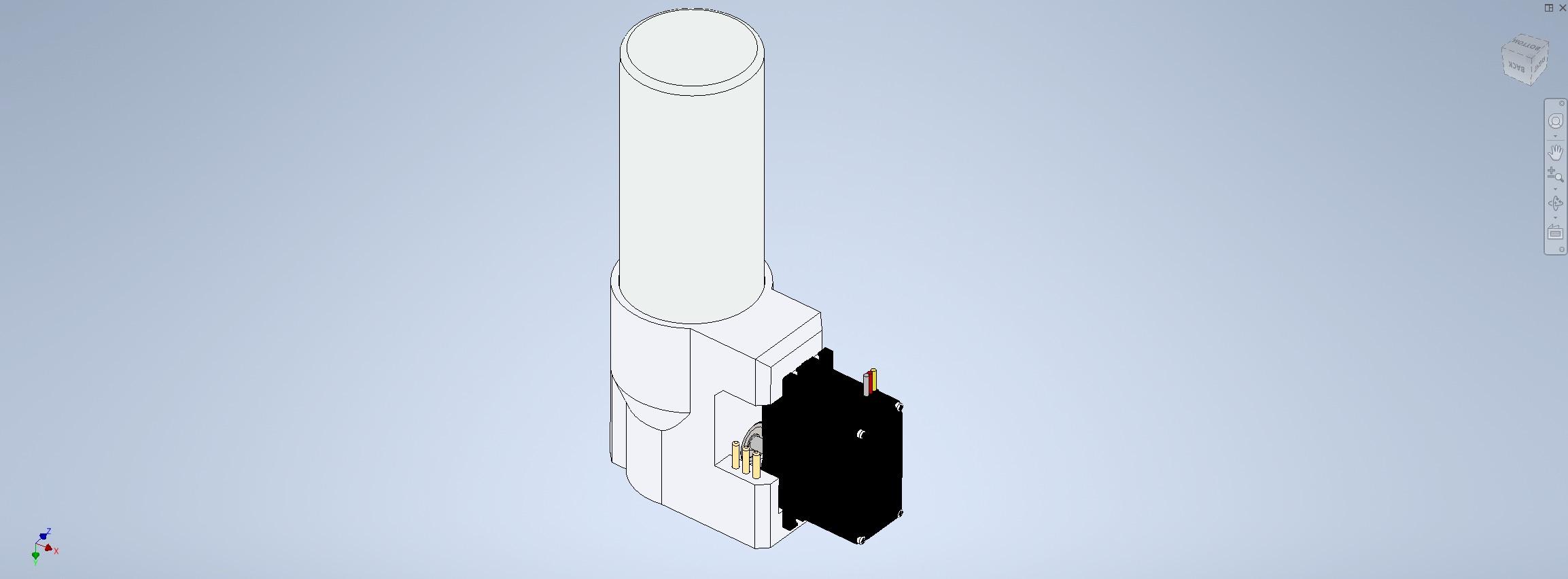
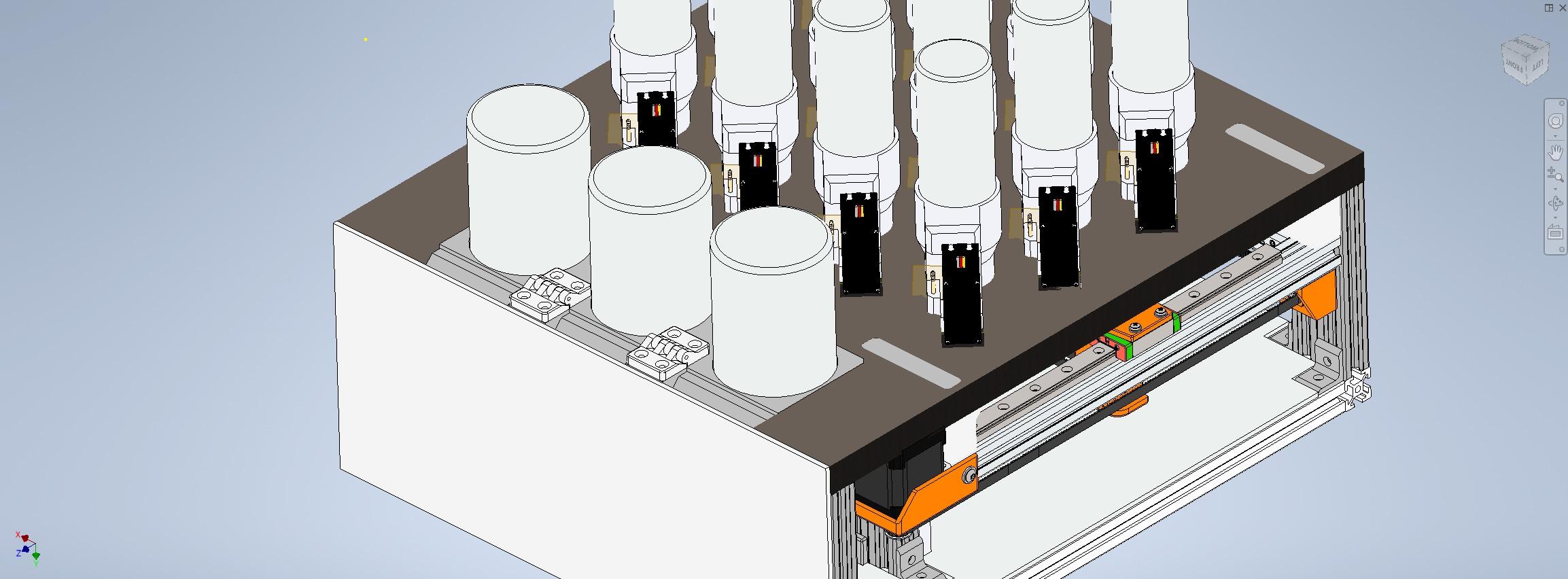
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Figure 2.4 Solid condiments unit Figure 2.5 liquid condiments bottle

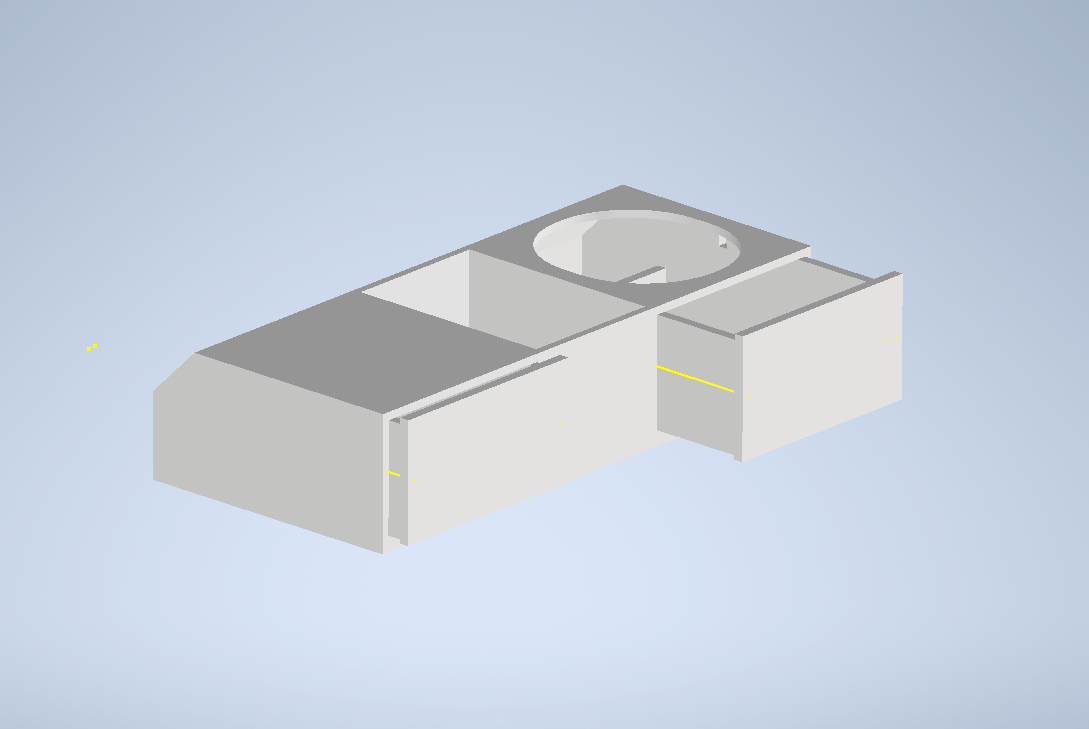
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Figure 2.6 User Spoon (output)

A circuit board

Description automatically generated

Figure 2.7 Encoder button

1. Setup Instructions

There are two different operation methods in Condiments Express, you can choose either one.

1. **Setup for using the phone application**
2. Install the “Condiments Express” phone application in the Apple store
3. Plug in the machine to the outlet.
4. Wait for the **OLED** shows: “WELCOME”.
5. Find the nearby BLE device from the App: “ COND\_EXP”, as shown in Figure 3.1

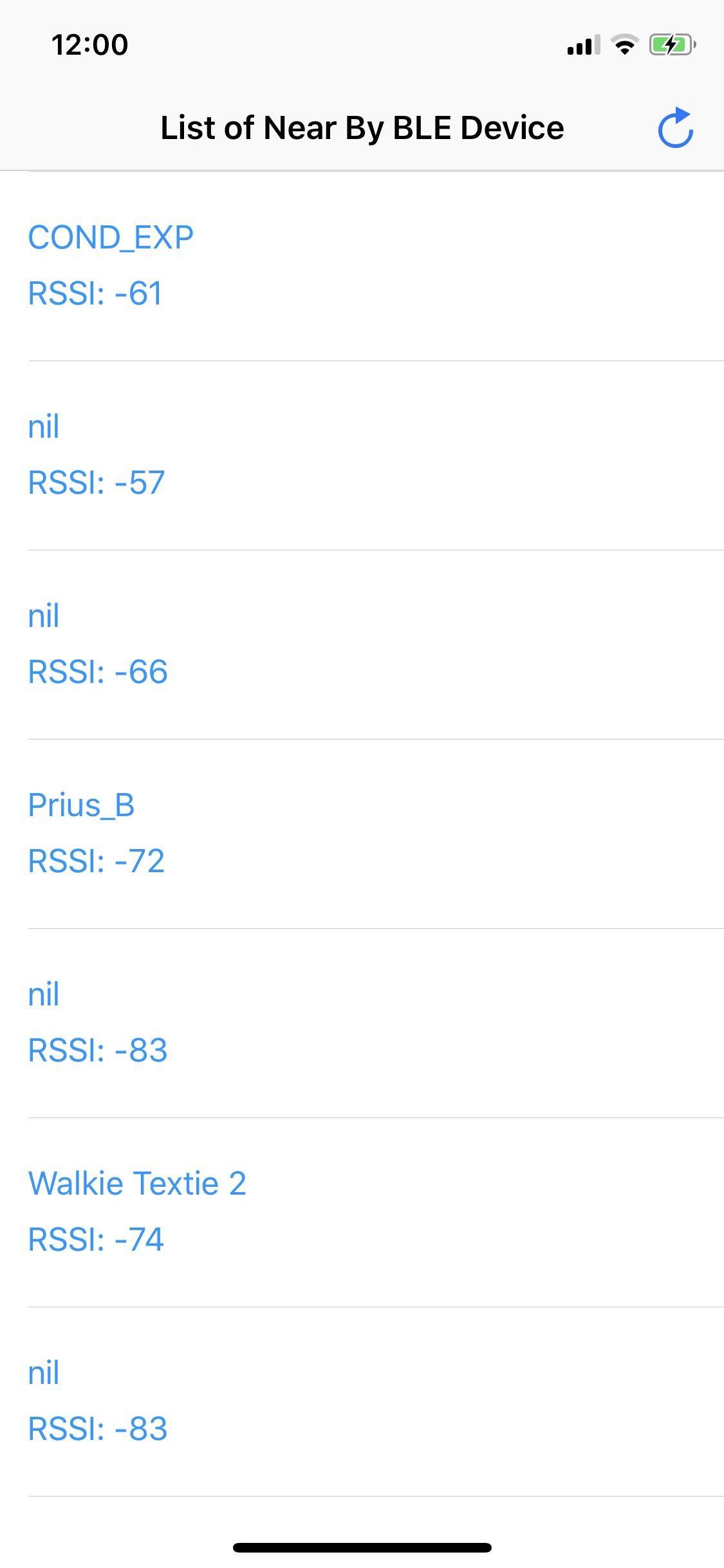
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figure 3.1 manual for connecting to the target device through BLE

**B. Setup for using the Encoder button**

1. Plug in the machine to the outlet.
2. Wait for the **OLED** shows: “WELCOME”.
3. Usage Instructions

**General usage**

1. Wait for the **OLED** and/or App shows the option for recipe
2. Rotate the **Encoder Button** to the option you prefer

Or send the number of the option you prefer in the text box in App and click “Send”

1. **OLED** will show “WAIT”, while the machine is loading, if you successfully load the recipe
2. Wait for the **OLED** shows “Ready”
3. Take out the condiments from the **User Spoon**
4. Place back the **User Spoon** once you have done
5. repeat step 3-6, until the **OLED** shows “DONE”, then you can do other options

**Maintenance**

1. To replace/fill up liquid condiments:
   1. pull up bottles with the board holding it a little bit as figure 4.1

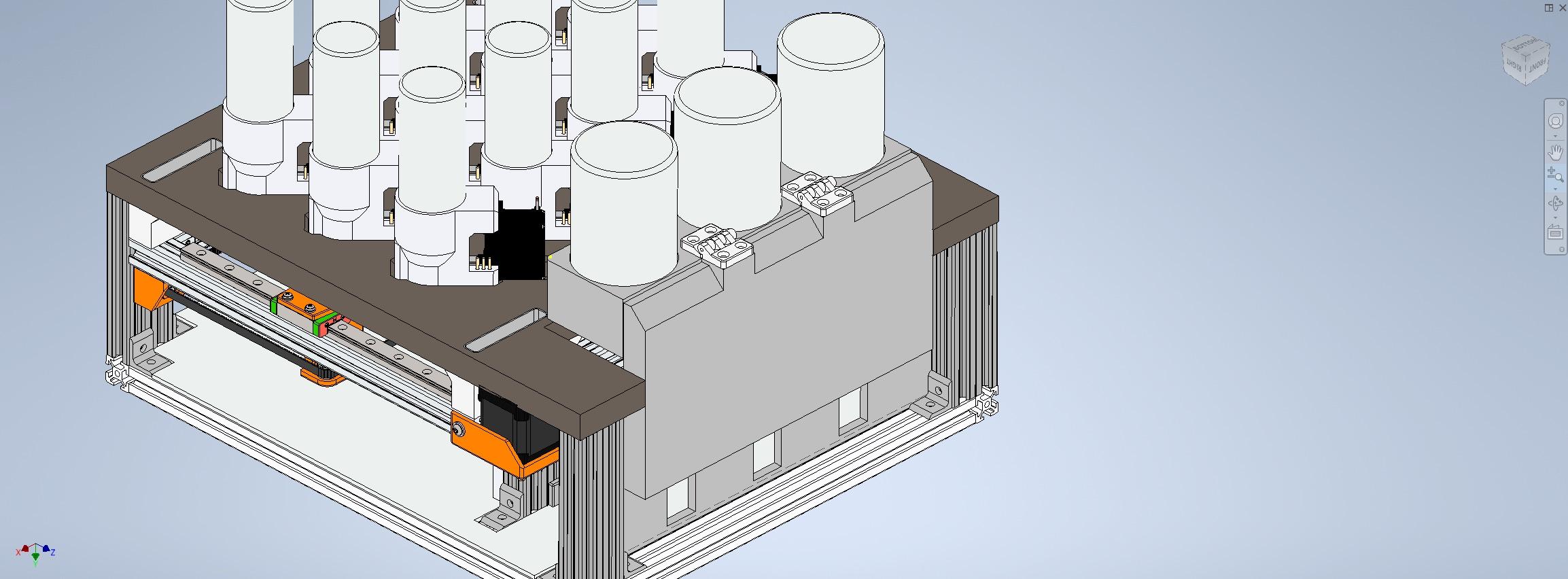
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figure 4.1 pull up bottles with board

* 1. flip the bottle with the board holding it
  2. take out the lid of the bottle with the tube
  3. replace the condiments or fill it as needed

1. To replace/fill up solid condiments:
   1. take out the **Solid Condiments Unit**
   2. flip the unit as the bottle touch the ground
   3. take out the bottle from the unit
   4. replace the condiments or fill it as needed
2. To load new firmware:
   1. use USB-C port to connect to your PC for updating the setup of App and/or **Encoder Button**
   2. you can add or delete the recipe if needed in the portion of code we provided and well comments.
3. Troubleshooting Instructions
4. W*hat will happen if I place this machine to a table without balance?*

Our system has a built-in function to detect it. Once it has been detected, the OLED will give Warning messages and stop working. You should make it balance. If there is no error anymore, the OLED will show the message to approve it and the process will be resumed.

1. *What is the requirement of environmental conditions for this machine?*

We would prefer you to keep this machine in a dry place with low temperatures. Since there are liquid condiments and metal inside the machine, we have built-in functions to detect the humidity and temperature internally. Once any possible hazards will happen, the OLED will show the warning message.

1. *What should I do if the machine is stuck suddenly?*

There might be some software or hardware issue happens. Please first try to completely stop the machine and restart it. If this reset doesn’t work, please contact us for further help.

1. *What can I do if I accidentally put back the User Spoon without dumping it? Can I take it out?*

If this happens before the new condiments have been dispensed, you can stop the dispensing process and resume the process after the User Spoon has been put back. Each step in the previous process cannot be modified or started over once this recipe has been loaded.

Please modify the recipe with your preference before loading by the method mentioned in the “maintenance” section.

1. *How to clean the machine if needed?*

We do not provide the build-in functions to clean this machine. The bottles can be cleaned by the steps mentioned for replacing condiments in the “maintenance” section.

1. *Can I add more condiments if my recipes need more?*

We will provide subunits for you to add more condiments options later on.

1. *Didn’t find your question above?*

Leave us a message with your name, contact information, and a description of the problem you are encountering at this email: zzoetan98@gmail.com, and we will get back to you as soon as possible.