

Crunch

craze
EZZ Almaslamani



Problem

The main problem was standing in line at the nut roaster for a long time to get a small amount of nuts as a snack.

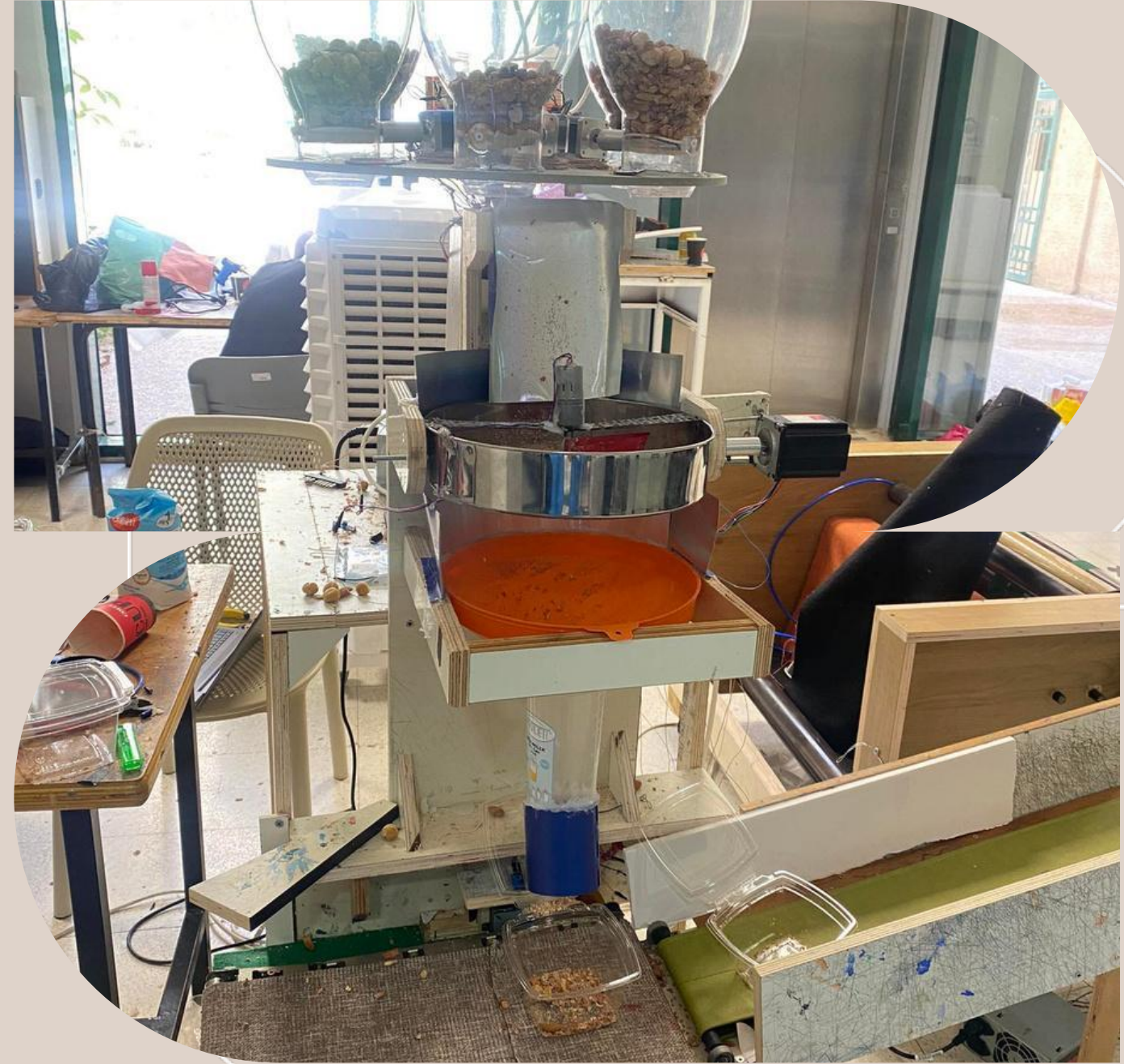


IDEA

our idea is a vending machine , to order nuts as a snack or while going out for a walk without having to wait for a long time in front of the nuts roaster

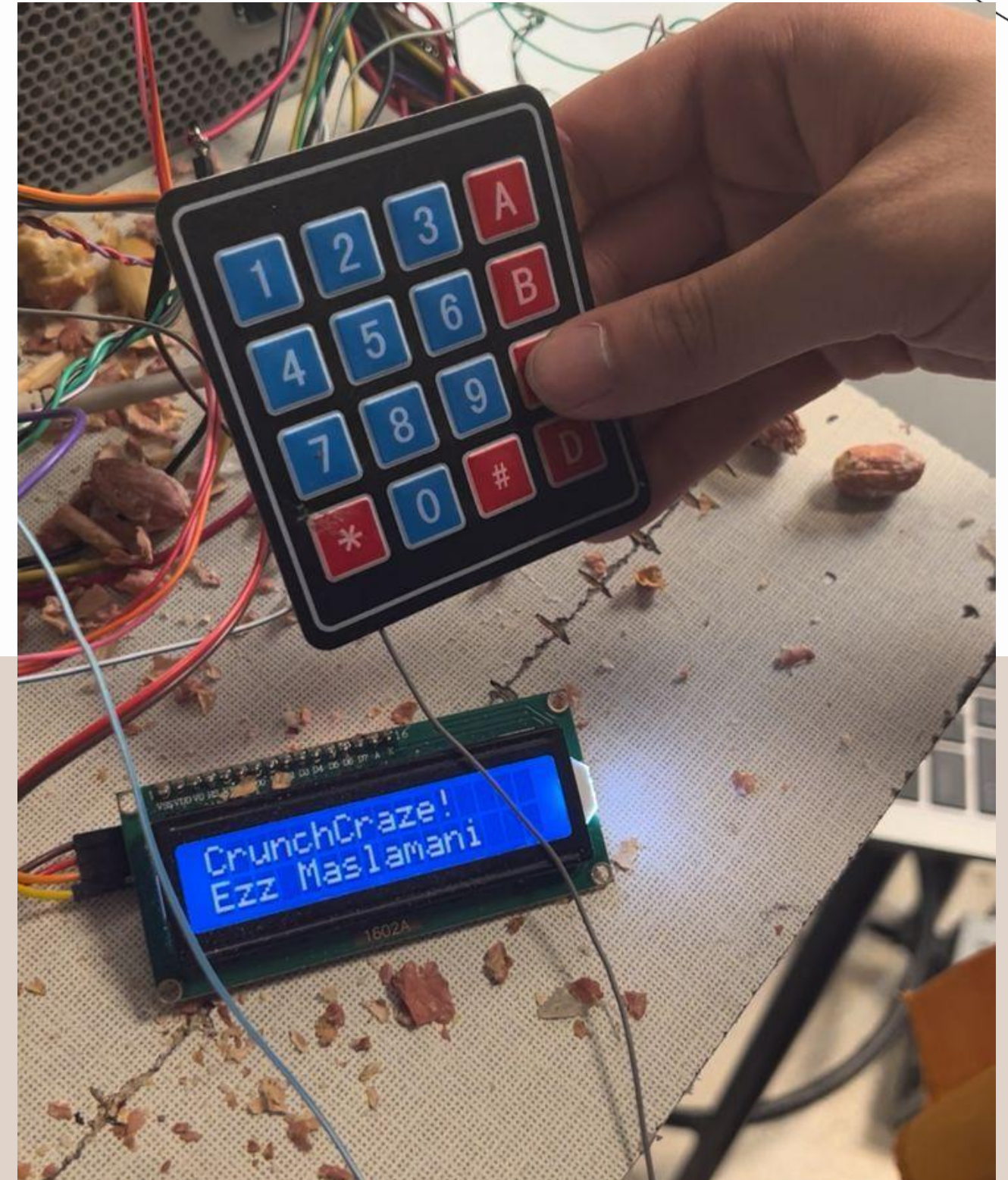


operation process



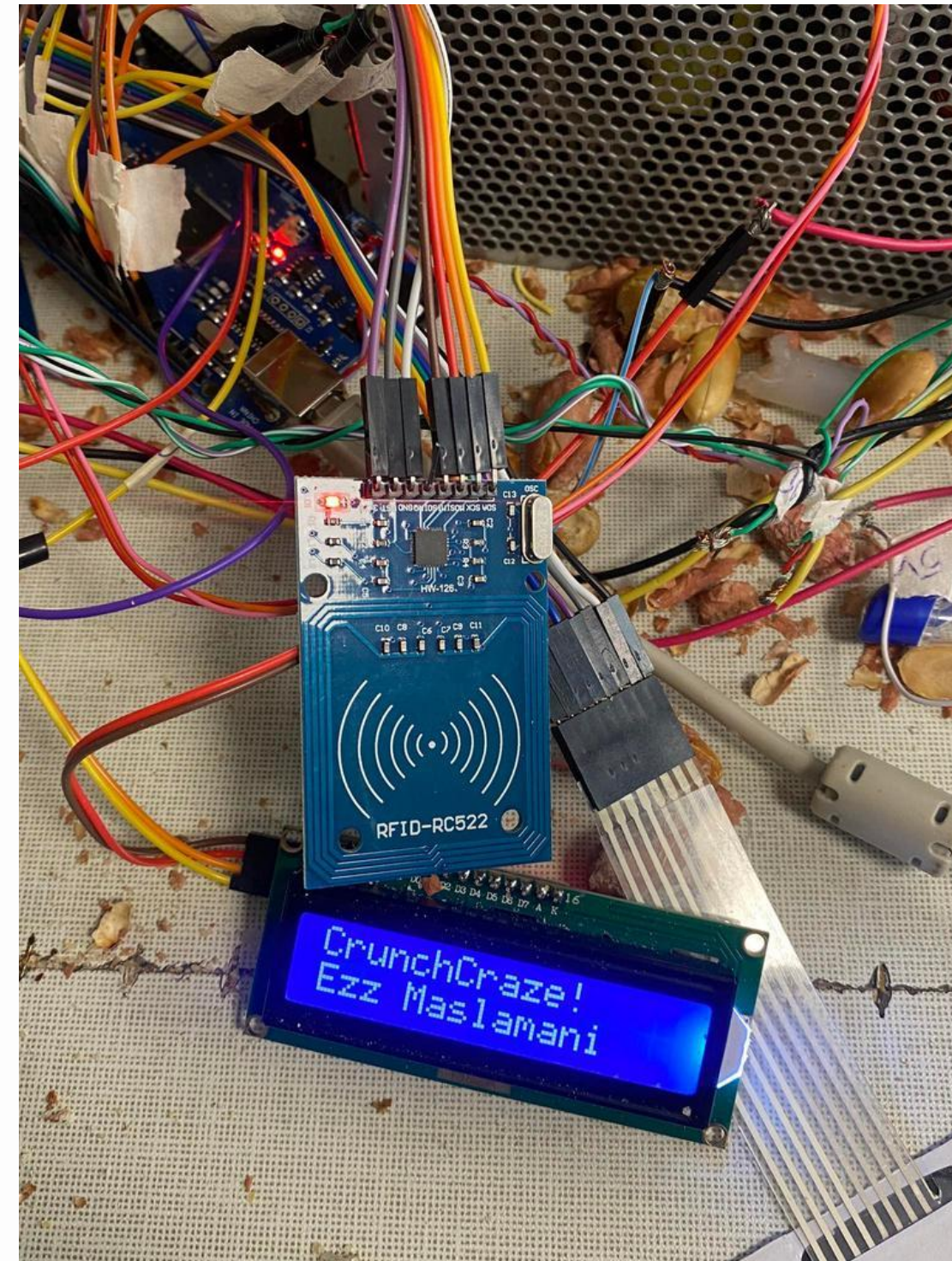
step one

ordering nuts, the required quantity, then the number of required items.



step two

**Payment, then the items,
and if the user wants to add
salt and spices**



step three

**Dropping selected nuts to
the mixing sieve**



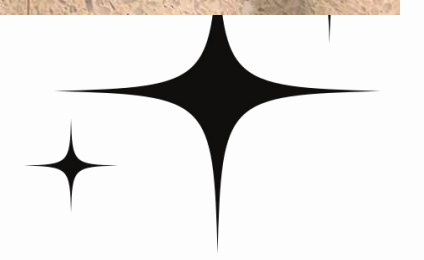
step four

**mixing nuts together , and with
salt and pepper if chosen.**



step five

**start moving belts with nuts
container**



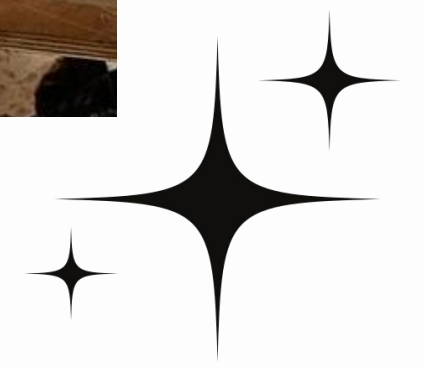
step six

**flip sieve to drop the mixed nuts to
the funnel .**

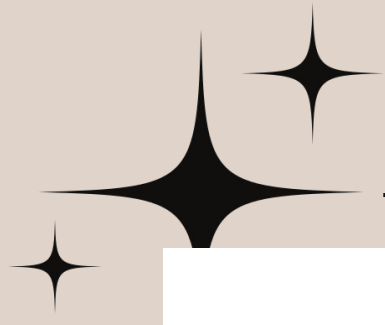


Final step

**cover the container and now
its ready!**



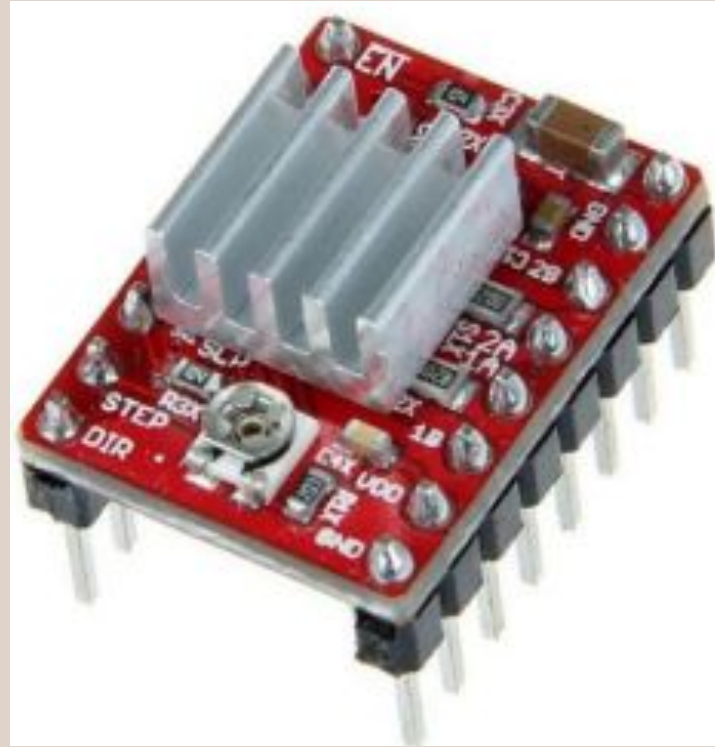
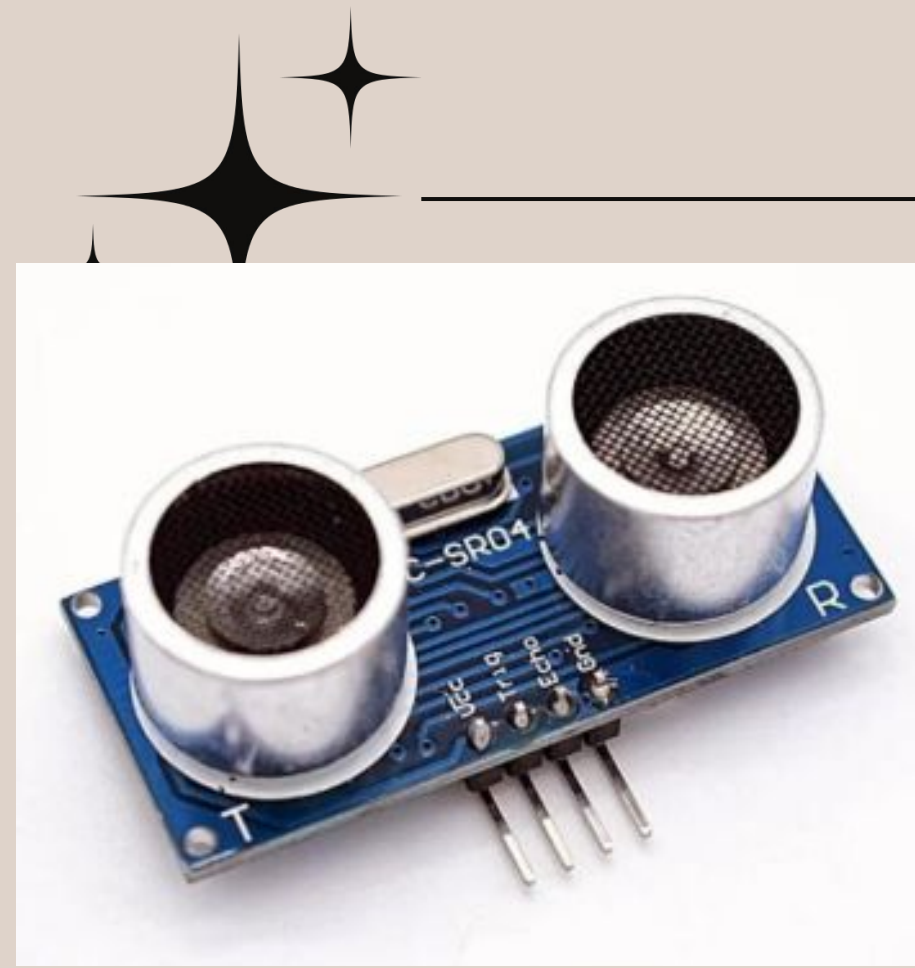
Hardware Components:



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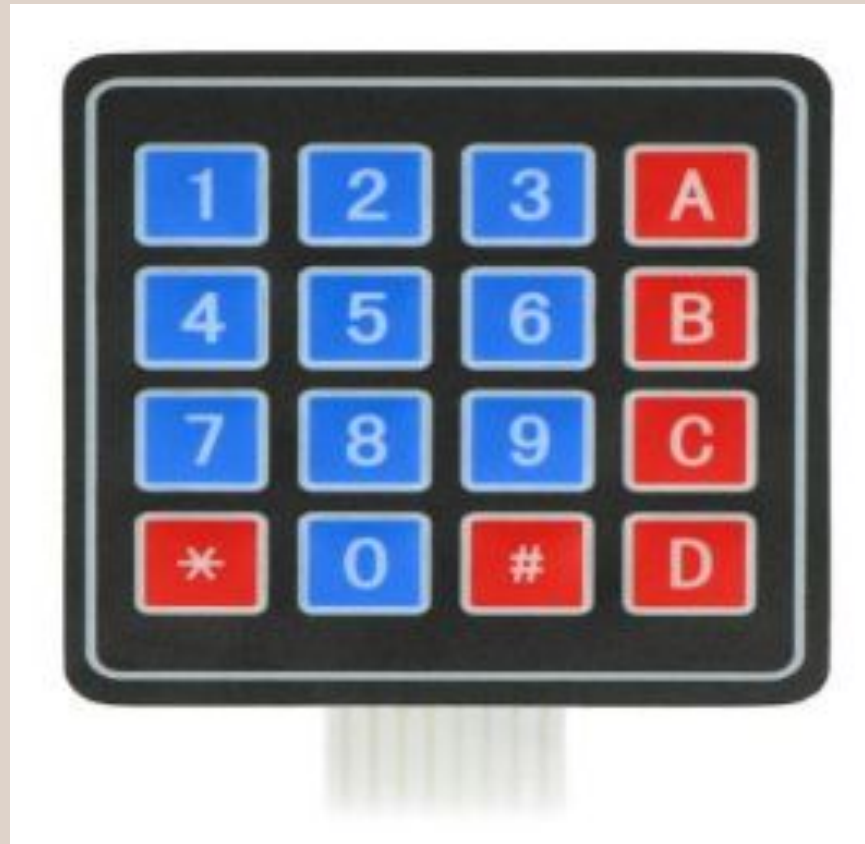
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Application

for admin , for refile nuts
containers messege



limitations

- the Israeli occupation
- University working hours
- the budget limitation, which affected the choice of materials and components
- Lack of sufficient experience in dealing with the components used, especially Arduino



Future work

1- Add order using application and
payment using Palpay

2- Add payment using cash

3- add more Types of nuts

4-Add more weights



Thank you!

