



### Introduction

Our container management system was developed to manage the arriving containers at the harbor automatically to save effort and time.



### Technology

Tools:

- Arduino Mega board
- Arduino IDE 1.8

Languages:

- C



### Outline

- Introduction
- System components
- The way it works
- Demo
- Obstacles
- Future Work

### System components



### Container Management System



### Future work

- AI
- Mobile application



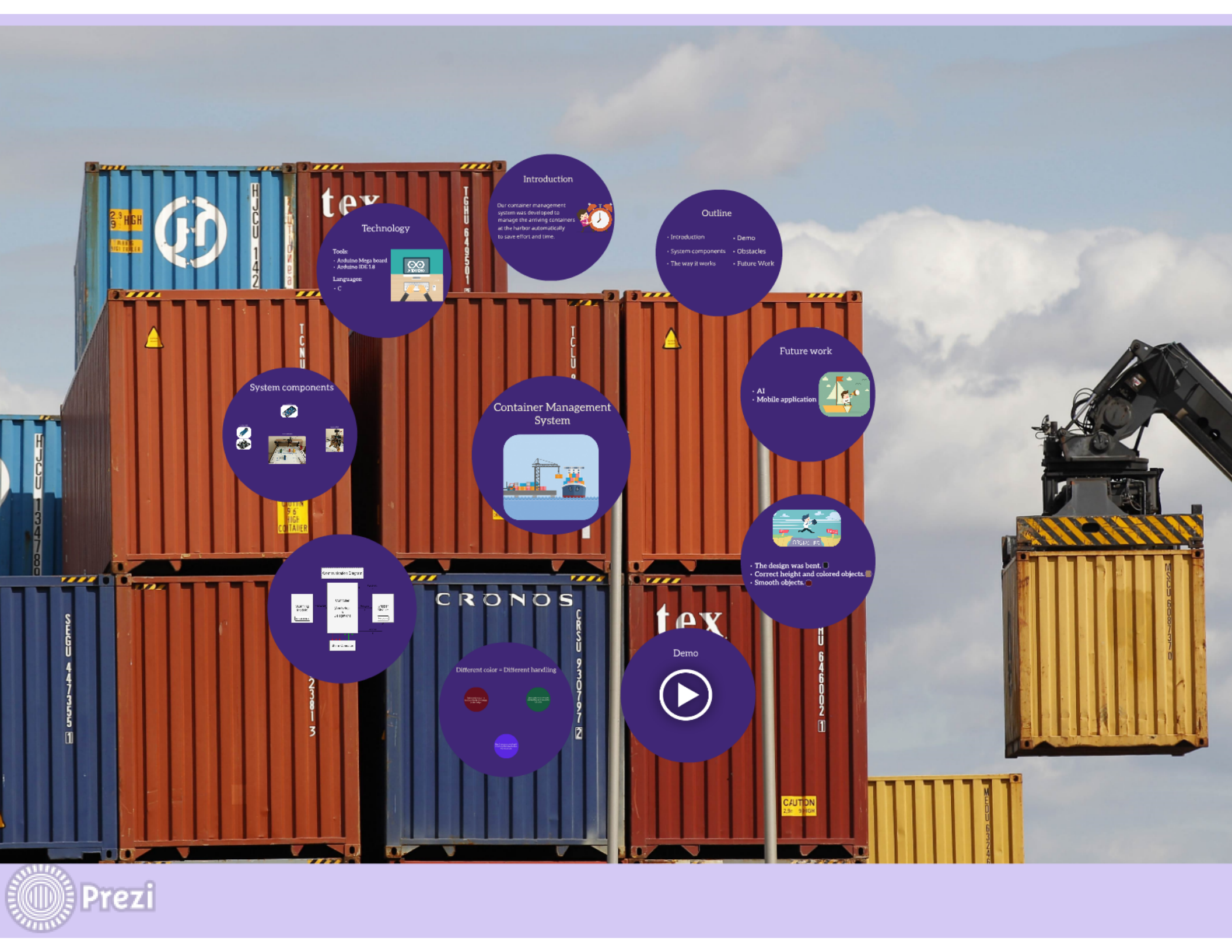
- The design was bent.
- Correct height and colored objects.
- Smooth objects.

### Demo



### Different color - Different handling





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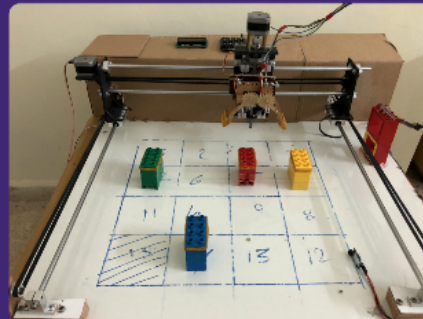
Controller



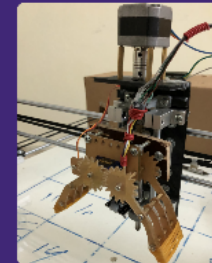
Scanning modules



The complete system



Gripper module

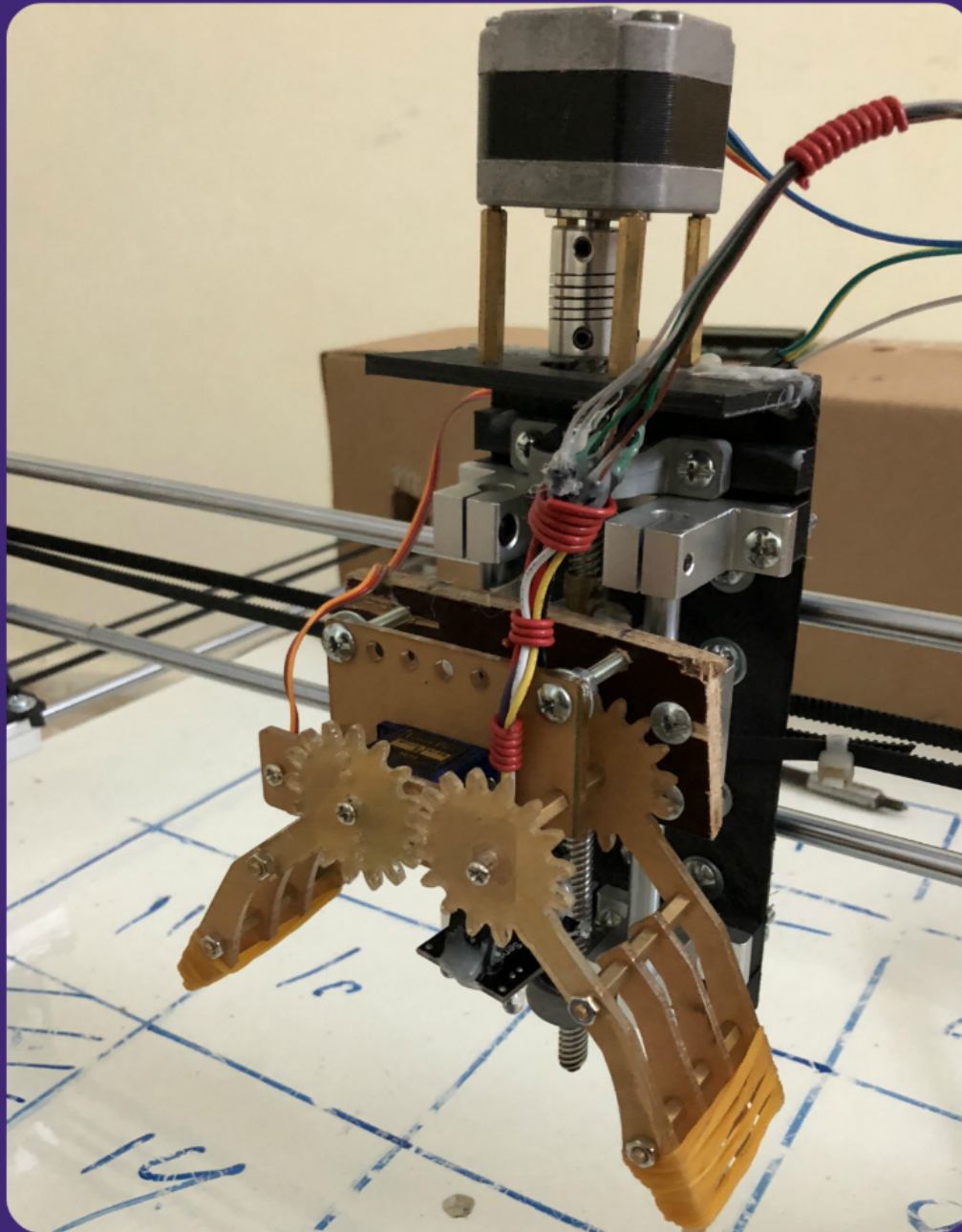




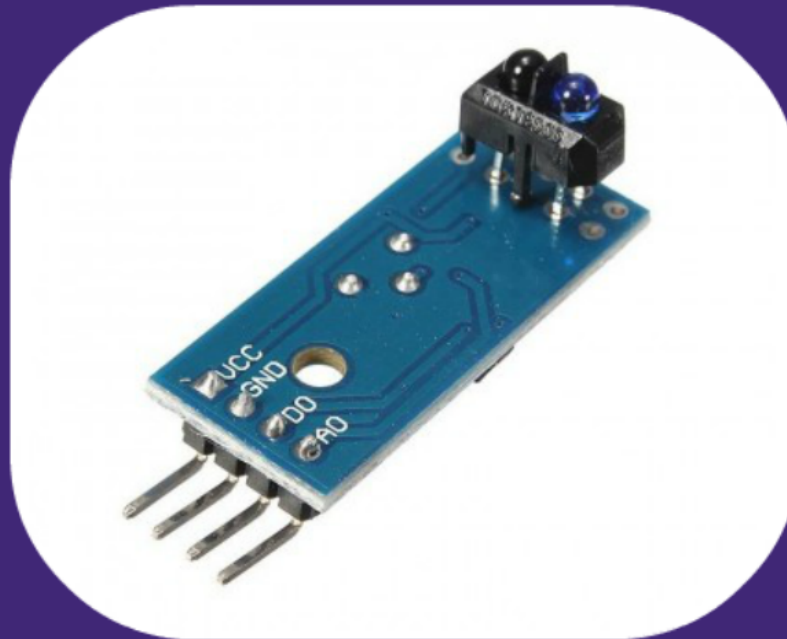
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# Gripper module

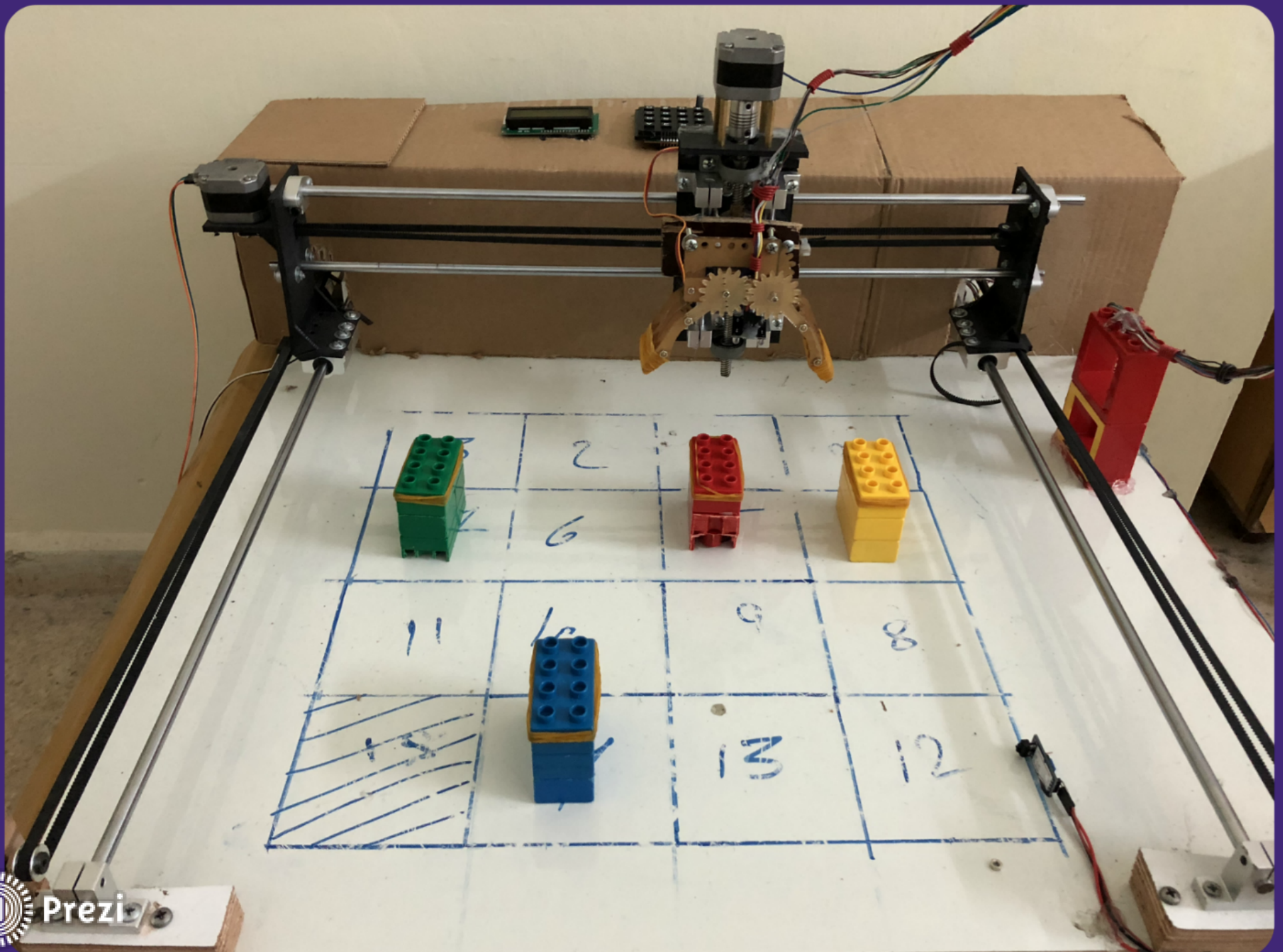


## Scanning modules

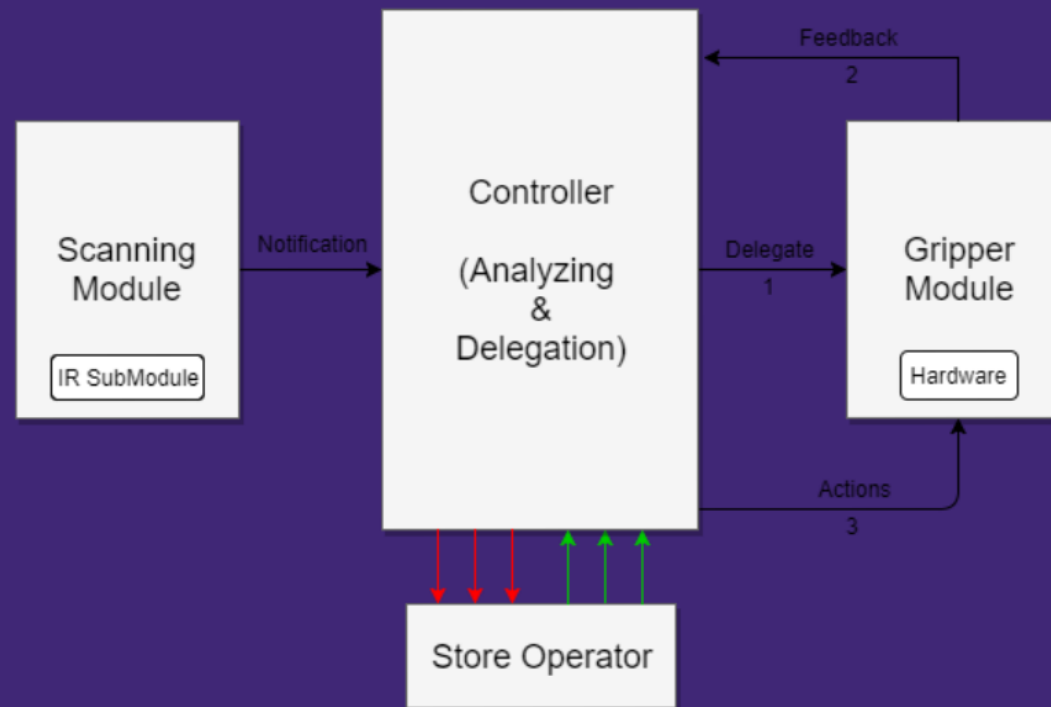




## The complete system



## Communication Diagram



# Different color = Different handling

Red containers carry food and herbs. So they go to the fridge.

Green containers carry cars and vehicles. So it goes to the cars area.

Blue Containers carry fragile objects. So they must be held with extra care.



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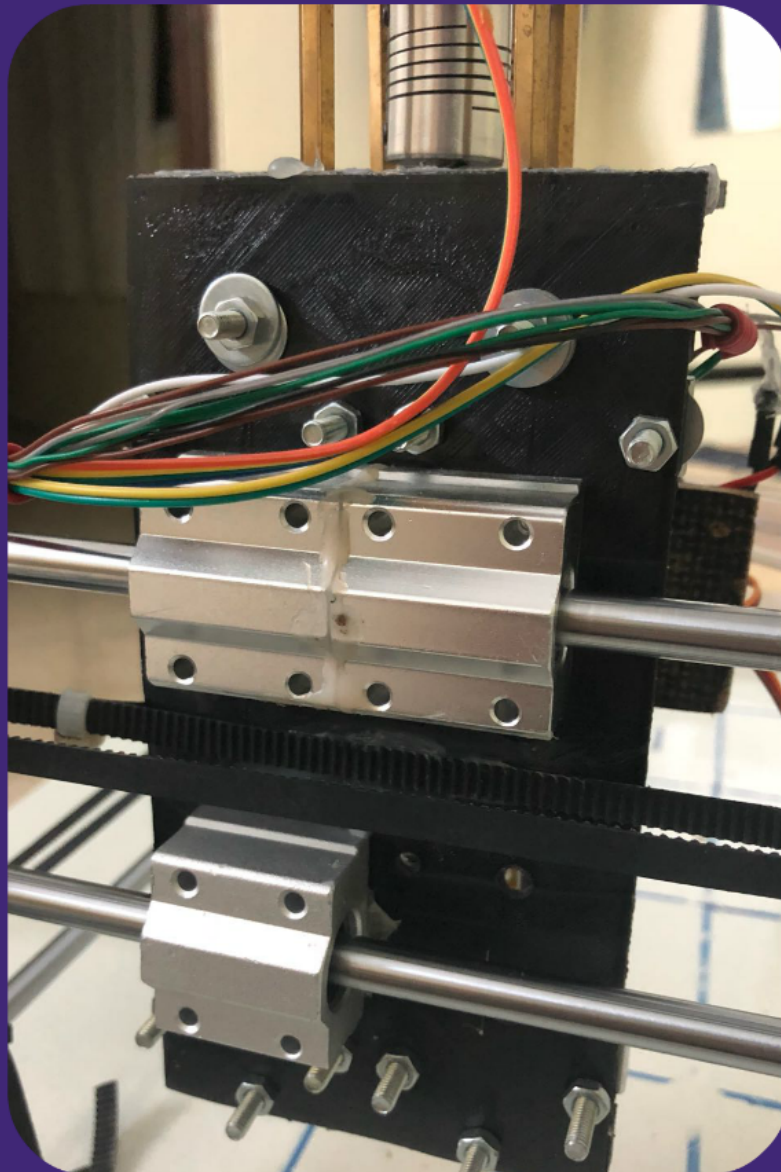


Demo





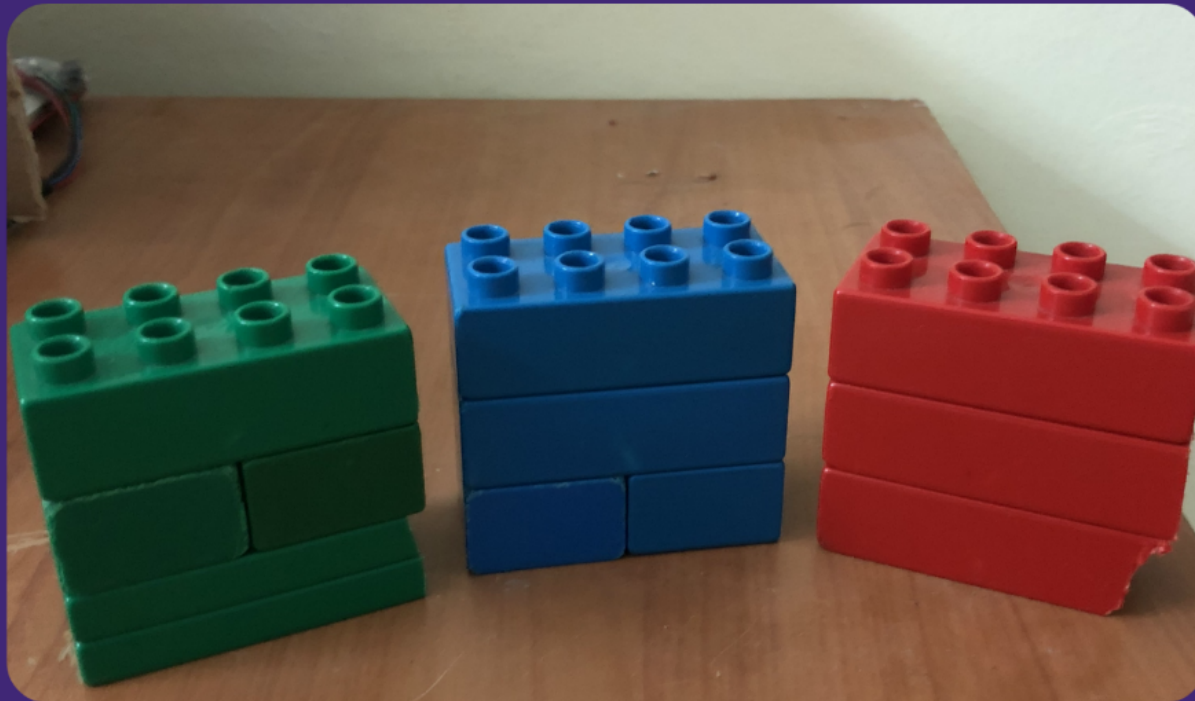
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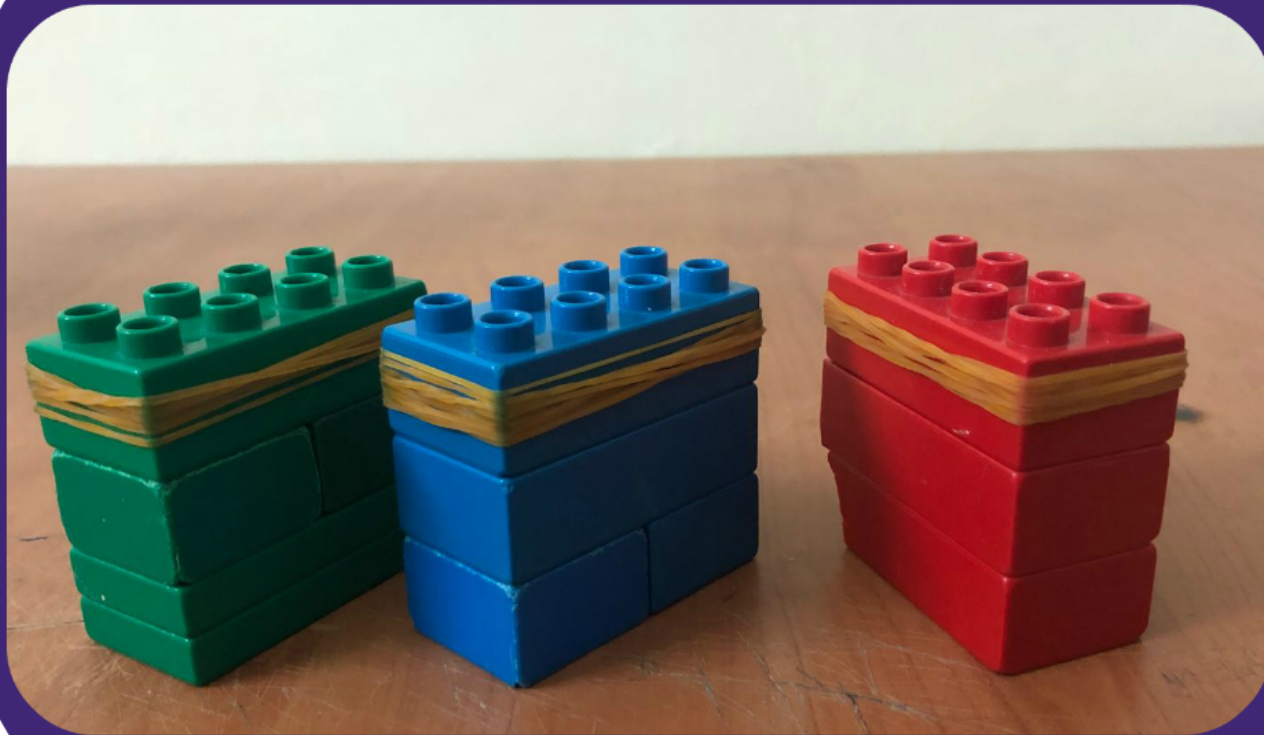


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