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[Lab session: L02 Group Number: 4

WEEKLY REPORT

2nd Week: From 10/10 to 16/10

Summary of work undertaken during the week (last 7 days),
highlighting what was carried out and in particular conflicts and their resolution.

This week, we have further determined the internal structure based on the design of the recycle bin and also made preliminary component procurement:

After discussion, we decided to change the previous plan of using a slope to guide the trash to a plan of using a screw-slide mechanism to transport the trash to different zones precisely. We found that in the slope-based approach, some wet trash, like paper, was challenging to remove, and after consulting the advisor, we decided to change the transportation plan. I have re-drafted a new simplified design diagram for members to design and 3D print the physical model further.

Additionally, due to the change in the plan, we have also re-discussed all the required components. The number of servo motors required in the new design has decreased, but we need steel rods for support. The new plan also requires two main control boards to analyze the trash and control the movement of the various components. After discussion, we finalized the new materials list, and I made a one-time procurement.

Lastly, in preparation for next week's demo, we are working on creating presentation slides and partial simulations for the demonstration. We have also broadly divided the programming tasks for the different parts of the entire system.

