Can Game Scoreboard

Description:

At my fraternity, we play a game with 8 oz cans similar to baseball. It is pretty much baseball but with a within a smaller area, similar to wiffleball. This project would be a scoreboard for the game. There would be simple buttons for adding and removing score as well as a button to start and stop time (each inning is timed. The score and time would be displayed on a small, well-lit scoreboard.)

Resources:

WARNING: Mine will not be remote controlled and be done using multiple buttons and have different processing. There are changes to the scoreboard itself as well, so It will not be like just following the tutorial.

Link to scoreboard assembly and coding done very similarly to my schematic:
https://www.youtube.com/watch?v=zdeKpxZJ_U0&ab_channel=CollinWentzien

Instructions with parts of a similar scoreboard.:
https://www.pcbway.com/project/shareproject/DIY_Basketball_Scoreboard_2928d0af.html

Another hackster article:
https://www.hackster.io/collin-w/diy-basketball-scoreboard-90cb27

High Level Design:

Input Box:
This will be a 3d printed box that will hold all the inputs to this scoreboard. This will be an array of buttons to:
- Add score
- Subtract score
- Start a 7 minute, 6 minute and 5 minute timer
- Pause time

Scoreboard:
This will be a small wooden structure laser cut to make the design of the scoreboard. There will be LEDs to illuminate the Score and show time. The arduino will be controlling time and score as well as coordinating the LEDs to light up together. A rough idea of what the scoreboard will look like is in the video above.

Parts:

- [LEDs:](#)
- MDF for the scoreboard structure
- 3d printer for the input box
- [Buttons](#)
- Power Supply to wall

Set of features:

Will be a robust scoreboard and actually work in a game. Inputs will be consistent and control the scoreboard, allowing the user to start and stop time as well as add and subtract score. The Scoreboard will run off of wall outlet AC power and should be mountable.

Stretch Goals: Add a inning tracker and an out tracker

Mid-Project Deliverable:

A working scoreboard build that is able to change score.