Additional Needs:
- Keyboard for guest book entries
- Search bar for each category
- Make the guestbook displayable and browsable
- Offer the possibility of guest receiving the information they accessed
- Feedback mechanism

Workflow:
1. Spin the wheel
2. Rotary encoder reads angles and reports this to the controller (RPI)
   a. Only data above a certain threshold is accepted to prevent misinputs
   b. Calculate velocity to determine threshold?
3. Database stores Category, Angle for each category, and each categories topic (in different tables?)
4. RPI accesses Database and retrieves Data corresponding to the angle reported by the RE
5. Shows topics in a webapp/GUI
6. User can navigate topics with the joystick
   a. User can search topics with the keyboard
7. User can press a button to access the description of topics
   a. RPI records the history of topics accessed
8. User has the option to "quit" or "finish browsing"
9. User is presented with the option to make an entry in the guestbook
   a. Maybe offer this to be done locally or a QR code which redirects to a website that has all the necessary forms
   b. RPI would periodically synchronize with the website database
10. If no, just show QR code with link to feedback website
11. If yes, show an input form where the user can input their data
    a. If the user provided an email, offer the option to send accessed data to the email
    b. Option to scan qr code or nfc tag of business card
12. Ask for picture
13. If no, Done, if yes, show instructions on the screen (joystick is detachable and the camera trigger)

LED strips embedded in diffused acrylic (or 3d print)

Stopper/Selector

Portable Monitor (21.5") Embedded into the styrofoam
➢ Weight reduction
➢ USB-C PD possible

Foamboard/styrofoam Backplate with acrylic sheets on back and front for reinforcement

Camera Module
(position can be changed)
- Simple usb webcam
- Used as QR code reader too

Privacy disclaimer, though might want to display that on the screen when it's time to take a picture
➢ Position changeable

Old PC Monitor
Topics of each category shown as an expandable item list

➢ Topic 1
  ○ Sample text
➢ Topic 2
  ○ Sample text

NFC reader

Detachable wired Atari Joystick
-> Detachable to use it as camera trigger, otherwise for navigating the menu

Spinning Wheel:
- Foamboard/Styro for lighter weight
- Reinforce with acrylic sheets back and front
- Detachable pizza slices
- Slices attachable with magnet foil
➢ Adjustable size and amount
- Result read out with magnetic rotary encoder
- PVC Pipe Shafts

Wireless keyboard that *can* be detached, but also extended out like a drawer to navigate the guestbook form and/or searchbar

SPIN ME

COLAPS

Programming Education

Experimental Learning

Special Interest Impact

Technology-Enhanced Learning

AI in Education

Educational Data Science

Methodology & Meta-Research