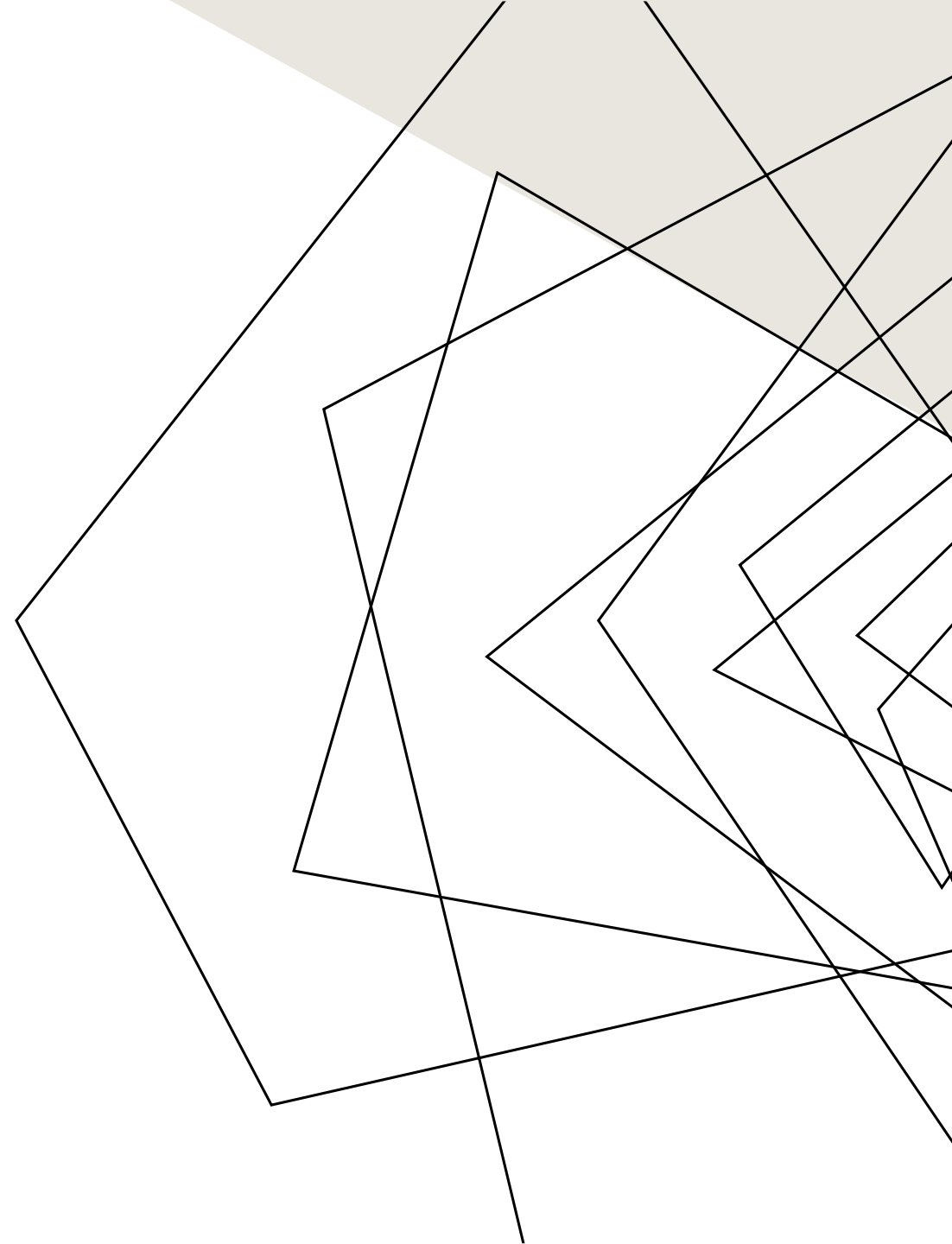


MORSE CODE ENCODER AND DECODER

PROBLEM STATEMENT

To use Arduino to implement a Morse code encoder and decoder obtaining inputs in various forms and displaying output in various forms.



COMPONENTS USED

- Push Button
- Arduino(with USB cable)
- Jumper Wires and Breadboard
- 2x16 LCD display
- Buzzer
- LED
- HC-05 Bluetooth module
- Jumper Wires
- Some Resistors

PROPOSED SOLUTION

- **Encoding:**
 - **Using Serial Monitor:** The serial monitor is used to obtain input from the user and converts it into morse code, displays it on the desired node of output such as:
 - LED
 - Buzzer
 - **Using Mobile app:** The mobile app(built using MIT AI) can be used to accept input from the user and display the encoded output in the following modes:
 - LED
 - Buzzer
 - Mobile app

PROPOSED SOLUTION

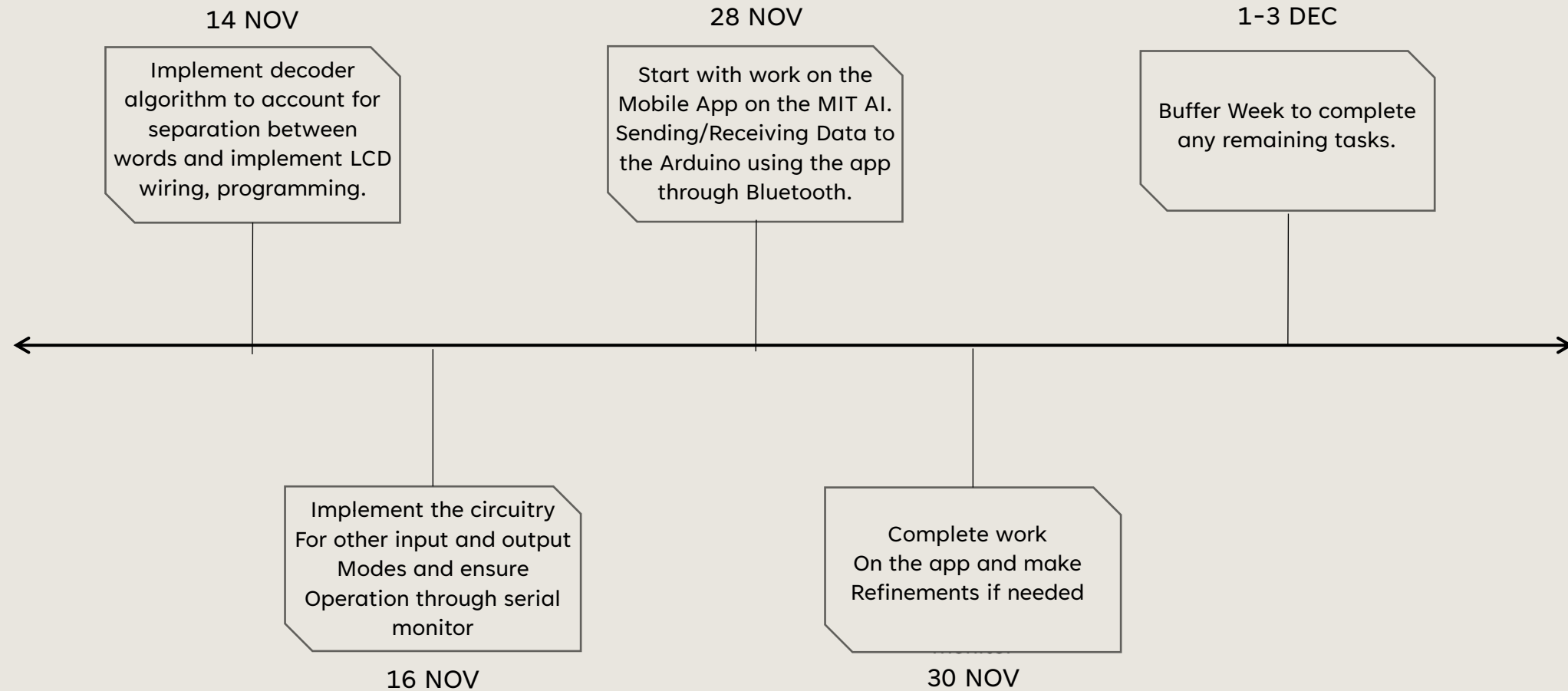
- **Decoder:**

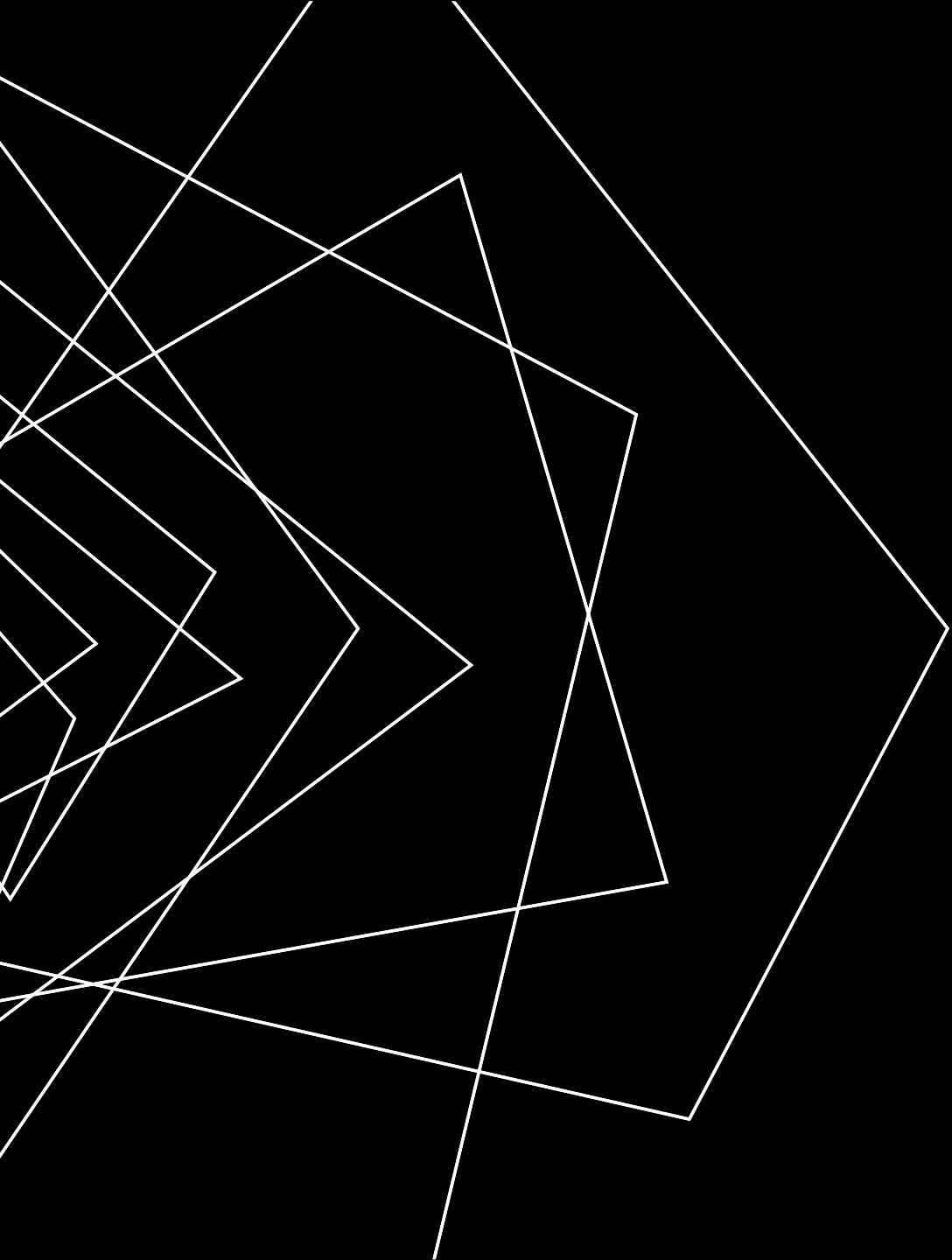
- **Using Serial Monitor:** The serial monitor can be used to obtain input from the user and the decoded output can be obtained via one of the output modes.
- **Using Push Button:** Dits and Dahs of the Morse code can be obtained from the user, and the decoded output can be obtained via one of the output modes.
- **Using Mobile App:** The mobile app built using MIT AI can be used to take input from the user and the output can be displayed in one of the output modes.

Output Modes:

16x 2 LCD display, Mobile App and Serial Monitor

PROPOSED TIMELINE





THANK YOU

Sricharan Vinoth Kumar(2024112022)
Saikiran S(2024112007)

Team 23