Fairly simple layout, line chart to show the position of the arm (via data sent back from potentiometers), along with an interface to interact with the motors. Tap a direction to make motor move in that direction, tap again to stop or tap other direction. There will also be a slider for speed.

Speed

2nd motor

1st motor

Clockwise

Counterclockwise

Clockwise

Counterclockwise

Y position (meters)

X position (meters)

Arm Position