Smart Coffee Table

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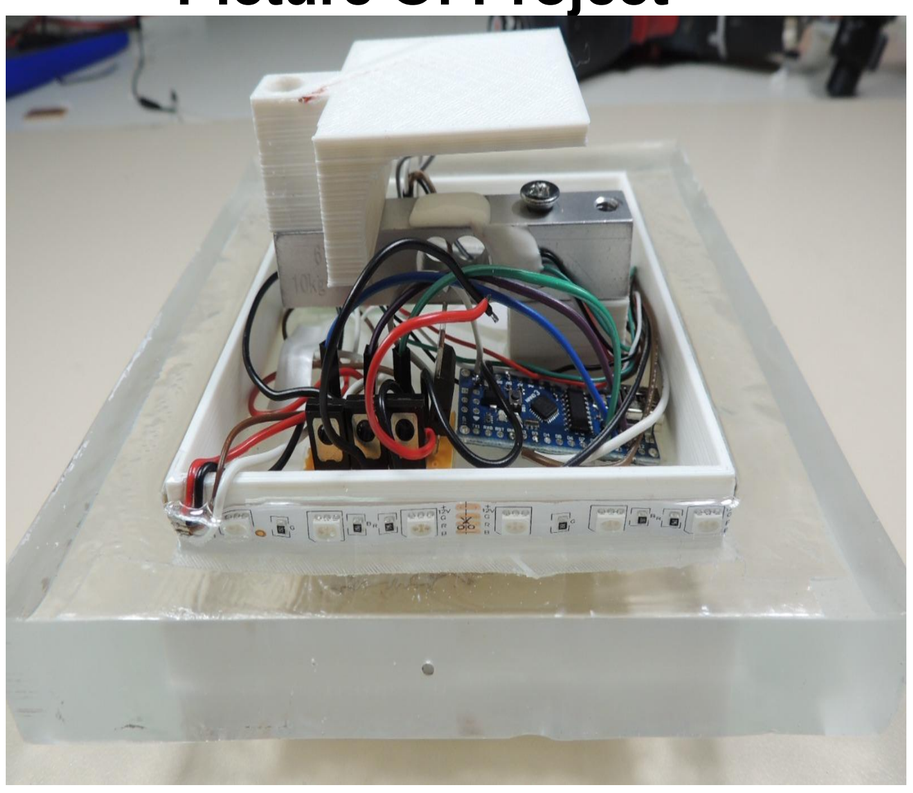
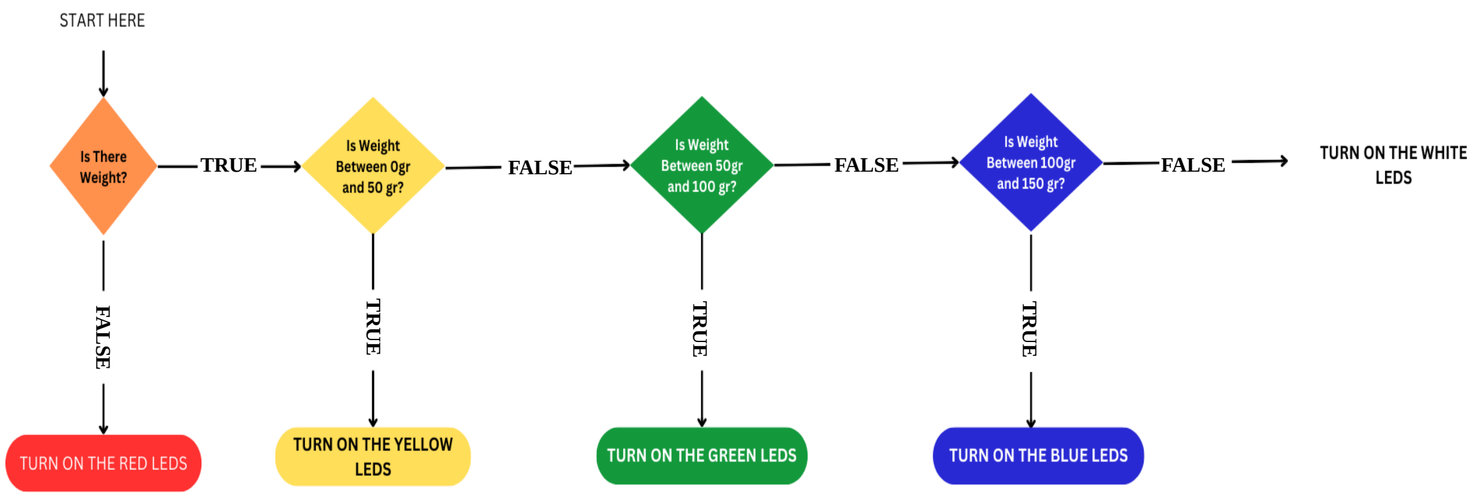
Abstract

The "Smart Coffee Table" project aims to make a coffee table smarter. The main motivation of the project is to enrich the user experience by changing the light depending on the weight of the product placed on the table. The main goal of the project is to accurately use the weight of the product on the table using the weight sensor and microcontroller and control the color of the RGB LED strips created in this way.

Picture Of Project

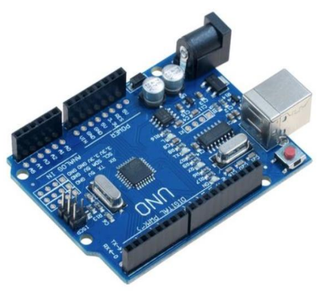


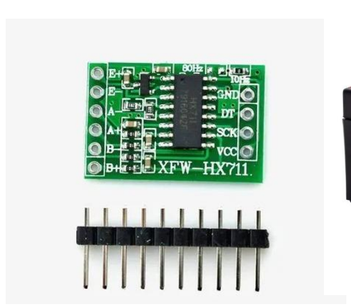
Flow Chart

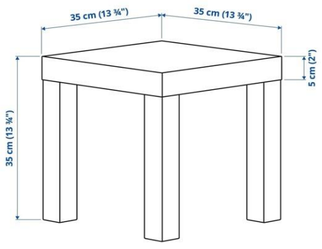


Materials and Specifications

- Arduino Uno
- Load Cell
- HX711 (ADC)
- 1 m RGB Strip LED
- 12v Battery
- 9v Battery Clip
- Jumper Wires as required
- ON/OFF Switch







CONCLUSION:

The “Smart Coffee Table” project proposes a smart table that changes ambient light depending on weight to improve user experience. In addition to being an aesthetic piece of furniture, this project attracts attention with its functionality and creates an innovative product by combining technology and furniture design. It also provides learning and practice opportunities for those who want to improve their electronics, programming and design skills. This product, which has commercial potential, can be used in interior design or special events and offers development opportunities and customization for users.

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