**High-level Design\_Physics\_Electrical Part**

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**Individual Work:**

My work is to program an Electrical Circuit under physics menu. This part will allow user to select electrical element such as power, resistor, light and wire to build a circuit. User can also check the voltage and current by clicking relevant elements.

**Pseudo Code:**

Check the position of mouse, select relevant electrical element when button pressed.

Drag relevant elements to window and put it to a place when mouse button is released.

Drag wires to connect all the elements.

Keep checking if all the elements are connected, if true, calculate the voltage and current and put the results in an array. If not, continue.

If all the elements are connected, display its results when elements are clicked by the mouse.

Use clear button to clear all the elements