PROJECT NAME: YOU CANT "SNOOZE" ME

TEAM NAME: Kids Next Door

Team Members:

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DESCRIPTION

It is a small mat that is app-controlled and is used as a unique alarm that is designed to make sure that the user gets up without hitting snooze. it can be customised through the app and the customisable features include the following:

1) The user can choose between standing on the mat for a preset time or jump multiple times.
2) The app will override all the utilities of the buttons on the smartphone so that the user is unable to switch off the alarm through it.
3) There might be a few additional features such as greetings(user defined) and a digital clock on the mat.
4) Scope for more features.

IMPLEMENTATION STEPS

WEEK-0 : Look at the mat's customisable features and specifications(just start a basic discussion)

WEEK-1 + Week-2:   designing the mat and final prototype ready.thus finalizing what is exactly required.and then collecting components and finalizing material...Learn android studio, Arduino coding

Week-3: Continue to learn coding .n start with circuits.

Week-4:complete the making of the circuits , placement of sensors and electrical circuits and components on the mat

Week-5+6: Coding and Debugging and fixing circuits(if any problem)

Week-7: Completion of the prototype as a final product

MAIN COMPONENTS REQUIRED(MAY VARY):

1) Pressure sensors (3 or 4)2000
2) Arduino 500
3) cushioning(material of the mat)500

4) digital display and speaker 500
5) Bluetooth module(or some other mechanism)500

COST ESTIMATE

4000 Rs approximate

KNOWLEDGE GAINED

1)Android/IOS app development

2) Arduino coding

3) understanding of electrical circuits and working of pressure sensors.

LINKS:

https://www.youtube.com/watch?v=w3DGyuLpBlU