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Anti - Phone Addiction Box using RFID

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ABSTRACT: The paper presents about an Anti-phone/mobile addiction box which is based on the purpose of to achieve control on mobile addiction of the people. Many of the inventions are done before on this topic using multiple techniques. This project is developed by using the technology of arduino, RFID and sonar technology.

KEYWORDS: Modern technologies ; Phone Addiction control.

I. INTRODUCTION

The Arduino is an open-source electronic prototyping platform that enables users to create interactive electronic devices. With the help of RFID and Sonar sensors, we have created the mobile anti-addiction box. The box has features like you can see the notifications or the content of the mobile which you want to see on the mobile without even letting it out of the anti-addiction box or touching it. As we all know, kids and the elderly in these days are getting very addicted to the mobile, so this device can help them to put a control on their addiction. As they come forward and try to grab the phone which is attached to the stand of the anti-addiction box, the sonar sensor of the box measures the distance between the hand of the victim and it draws the phone inside the box and starts the beep sound as an indication that someone is trying to grab the phone. Due to this, the owner/parent/victim will understand that they should not touch the phone or, in the other hand, the parent will understand that the child is trying to grab the phone from the box. And then they can try to stop or avoid that craving towards the mobile or phone. Then, after some time of delay, the phone will come up automatically, and again you can see the content you are watching on the phone, again without even touching it. These processes are carried out by the help of Arduino and servo motors. This can help the people to control their craving towards the phone. After that, if you want to get your phone back from that anti-addiction box, we have provided the facility of an access card; you can hold the access card on the given mark, and then you can stop the work of that box and take your phone back.

II. RFID METHODOLOGY

In this anti-addiction box, we have used Arduino as the base of our project. With the help of that, we gave instructions to the RFID, sensors, and servo motors to do their respective work or task. We used an ultrasonic sensor HC-SR04 to get the location of the victim's hand for accuracy. As the action of opening and closing of the door and the stand of the mobile phone are done by the servo motors, the commands for those actions are controlled by Arduino. The sensor which is used in the box has a measuring capacity of the object up to 200 cm. The sensor is placed in such an angle that it can sense the object in proper angle. The RFID has two options to start and close the functions of the box using a card and a keychain, using these two options you can unlock your mobile from the anti-phone/mobile addiction box. The need of such a kind of self-controlled device is necessary in the modern age to get control on the addictions. The box is less power-consuming; it doesn't need any continuous power supply for work. As well as it is a well-programmed device which works all the process by its own. The device is made by keeping the thought of the addiction victims that they can't control the box by their own; it needs some sort of security in the device, and security is provided by the help of a security card.

III. 3D VIEW OF MODEL



Fig1: Top view of model

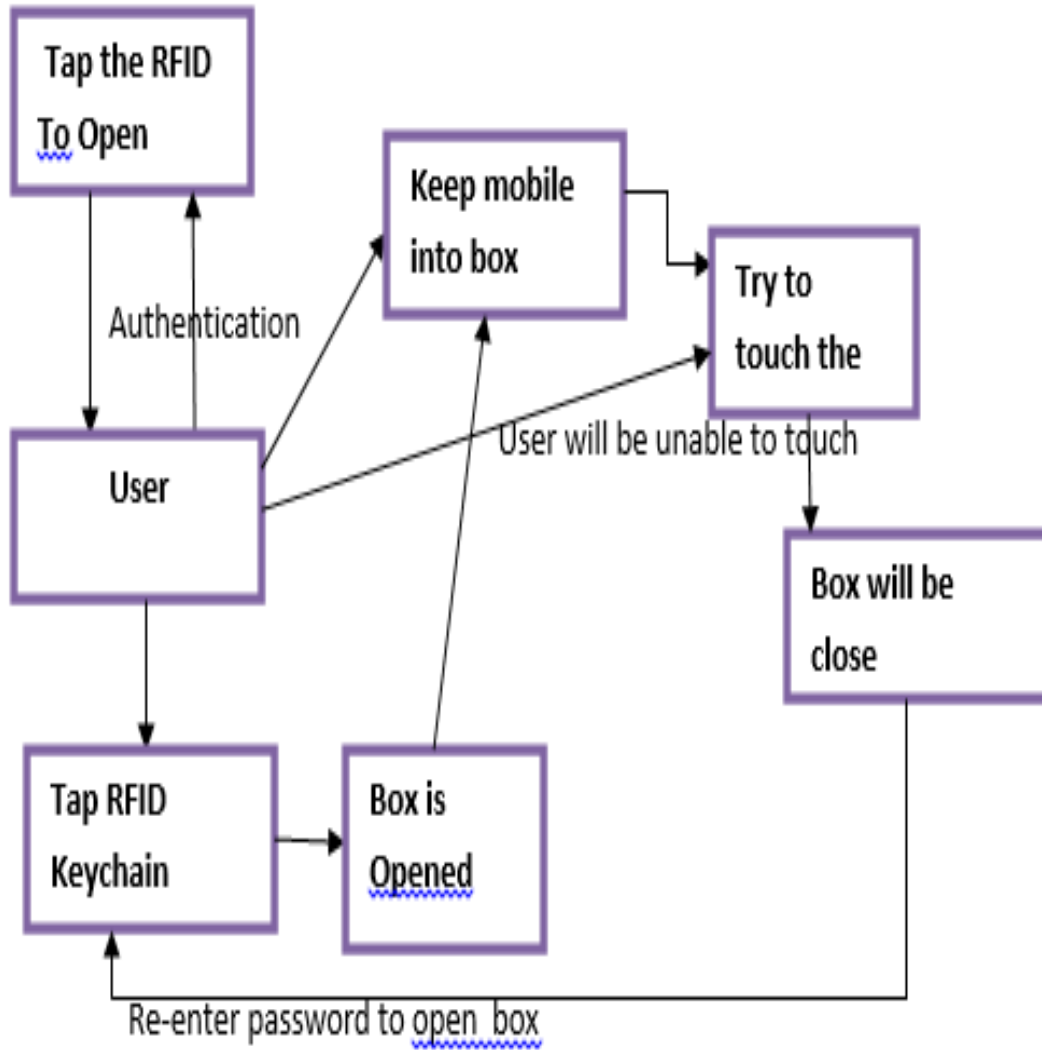


Fig2.Front view of model

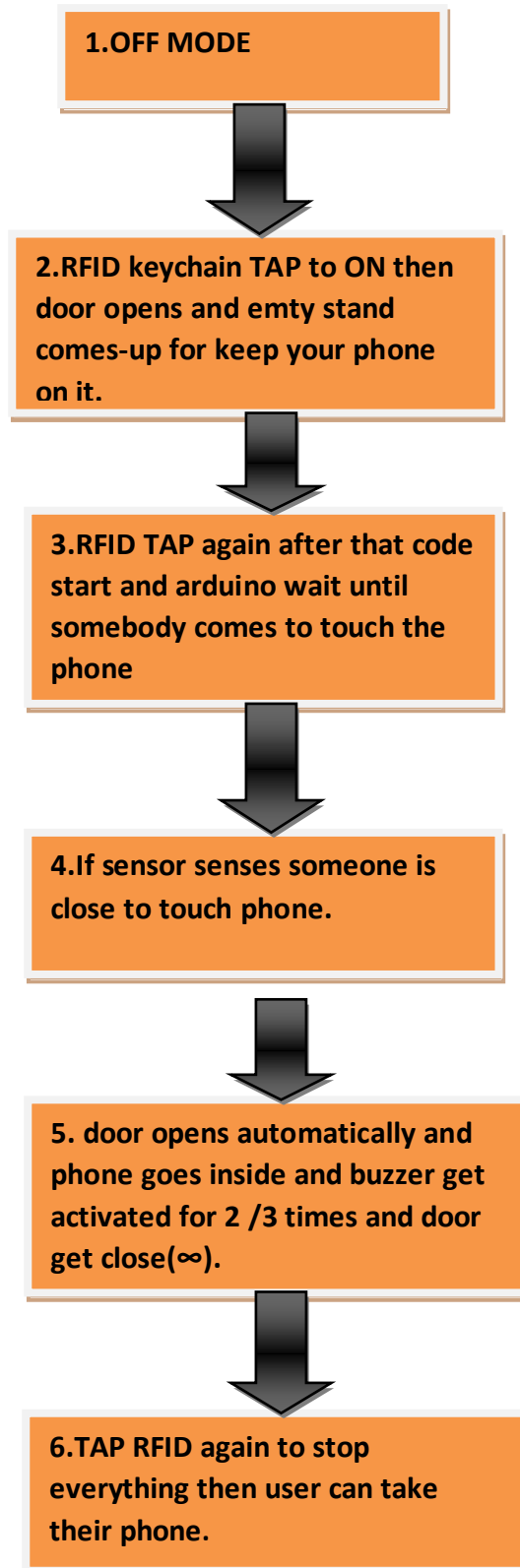
In **Fig 1** it shows top view of our model here, when we tap RFID keychain door open and mobile stand comes up by using server motors

In **Fig 2** It shows front view of model ,hereafter tapping RFID keychain door gets closed and mobile goes down.

IV. ARCHITECTURAL STRUCTURE (LINE DIAGRAM)



V. FLOWCHART





VI. RESULT AND DISCUSSION

In study we have implemented c programming while coding for arduino, in the anti addiction phone box .The use of arduino provides automation to it. Use of RFID provided security to the box with the help of ultra sonic sensor .The servo motors used in it provides quick and better performance to the device

VII. CONCLUSION

It helps the people to get rid from their addiction towards the mobile .It is less costly than the other projects .It is portable ,you can take it anywhere whenever you want .It has a beep sound of indication to make victim fill guilt about the craving of the mobile which will lead the victim to the state of self realization ,cause of that victim will not try to grab the phone again .The design of the box is less space consuming .According to the research 73% people among the world are suffering from the anxiety n sleeplessness caused due to the phone addiction. This kind of model can help those people to get rid of such addictions .

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