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# **HACK\_BIT 2020**

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**Money Sanitizer**

**AUGUST 15, 2020  
ROBOTEERS**

# **Section 01)**

## **Brief Intro to idea:**

This is a concept which is based on the global pandemic which the whole world suffers right now which is none other than the Covid 19. By this concept it suggests minimizing the spread of corona virus through daily transactions done using the bank notes. As most experts believe that an effective vaccine will not be ready until well into 2021. Because of that the best solution would be reducing the speed of spreading virus. According to experts the virus would last about 3-5 years. Millions of transactions happen by using bank notes in the world most of them are happening without any safety precautions. Though the user has sanitized their hands, it is said that the virus can last two to three hours in surfaces. This simple product will sanitize the bank notes automatically by adding extra protection to the virus spreading. This does not take much time as the whole task is automated.

## **Opportunity:**

The spreading of the virus via bank notes can be minimized and transactions can be done without any fear.

## **Inspiration:**

It is observed that most of the transactions are happened without any safety in supermarkets, bookshops, markets, fish markets etc. which would be a turning point in spreading the virus.

## Section 02)

### List of problems that you going to stop:

- Reduce spreading virus through transactions.
- Make transaction safety and protected.
- Increase healthy habitats.

### Who cares:

- The customers including the public.
- The shop owners
- Cashiers
- Normal sellers

### Why do they care:

The people who owns the shops would be pleased because their transactions does not spread the Covid 19 virus. The customers including the public would be pleased because they are not doing transaction with the virus. So, they do not take the virus to others.

### Business Model:

The Business Model that is used for this produce is **Sales**. Following are various key features of this business model:

1. Key Partners – This concept is to obtain a patent right and thus by partnering with a cooperate company that has a reputed brand name it is possible to gain the relevant amount of sales.
2. Key Activities – Main activities would be
  - Obtaining the patent
  - Licensing the product
  - Partnering with a reputed company
3. Value Proposition– Adhering to the new normal, this product is an essential for commercial entities.
4. Revenue Stream – For each unit sold, a profit of Rs. 322.5 is estimated.

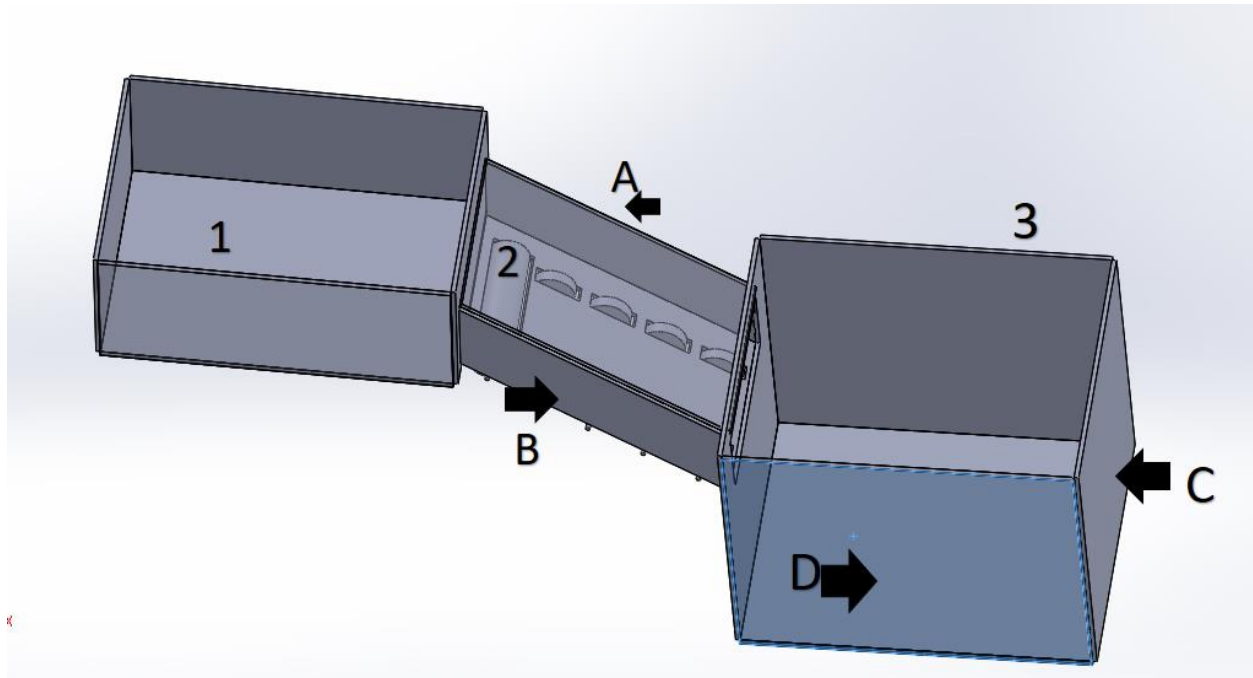
5. Customer Relationships – As a reputed company is selling this product, customer relations are managed.
6. Customer Segments – This product is a universal product which is needed for everyone in the society. It could be both used for personal and commercial use.
7. Cost Structure – Following are shown the variable costs amounting to one product.

### **Estimated cost for a prototype:**

Name	Quantity	Price
CPU Fan	1	Rs.200
Wiper Motor	2	Rs.3000
DC Gear Motor	1	Rs. 1,250.00
Plastic rods	4	Rs.100
3D printed Cylinder	5	Rs.500
Plastic 2-3mm	1	Rs.1000
12V power supply	1	Rs.500
Labor	1	Rs.327.5
Profit		Rs.322.5
<b>Total</b>	<b>1</b>	<b>Rs.7250</b>

## Section 03)

### List of features, offers by your innovation



The above diagram shows the sketch of the innovation.

In this mechanism when money is inserted to the tank 1, then the lid is closed. After closing the lid, the switch should be turned on. Then the mechanism takes the bank notes one by one to the tunnel. The sanitizers are sprayed in between, and notes are sent to tank three via belt. A and B are the places where sanitizers are sprayed. After bank notes are arrived at part 3 again sanitizers are sprayed by C&D. Then there is a fan below tank 3 which will be activated and dried. Bank notes can be taken out by lid in tank 3.

### List of possible enabling technologies

- 3D printing technology
- Solid works -for simulation
- Analogue Electronics

