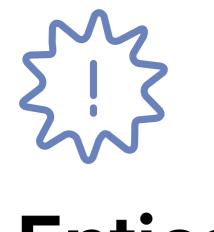
SCENARIO

Browsing, booking, attending, and rating a local city tour



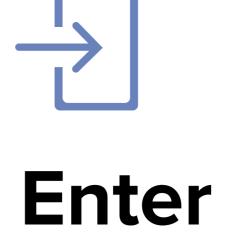
Entice

cleanliness.

emissions.

compare to other methods.

How does someone initially become aware of this process?



What do people

experience as they

begin the process?

focused and targeted way.

dispose that waste

Dustbin gathering all waste in one bin to collected from

wrappers of different items, throw unnecessary papers

PEOPLE: using the resources available to us in a more

THINGS: Every person in this world throws waste in the

every person looks for a place or a plastic container to

form of plastics, wet waste, dry waste and etc. Also,

PLACE:Reduce the number of bins required -

decluttering and improving the street scene.

different rooms and places. It can also collect the

Engage

in front of this dustbin it will open automatically with the help of a servo motor.

In the core moments in the process, what happens?

Exit What do people

sanitation.

typically experience

as the process finishes?

It make Health, and Hygiene for people. Through this

Smart Dustbin project, we aimed to build a working

prototype of a dustbin whose lid opens automatically,

without any contact when a person comes near it (in the

process is contactless it maintains public hygiene and

We can feel that the environment and contribute to

To support sustainable development by promoting the

Reducing waste will not only protect the environment but

the same way, recycling and/or reusing the waste that is

produced benefits the environment by lessening the need

to extract resources and lowers the potential for

rational use of natural resources, and preventing and

combating the hazard and harm to health and the

environment arising from wastes.

restoring its natural beauty and condition.

range of 2 – 30 centimeters) to throw the trash. Since the Hospitals and Bus stands.

Extend What happens after the experience is over?

As people are getting smarter so are the things. While

requirement for smart waste management. The idea of

the thought comes up for smart cities there is a

Smart Dustbin is for the Smart buildings, Colleges,

Some trash is recycled or composted, while other

and the remainder of trash goes to landfills.

discarded items are sent to waste-to-energy facilities,

Waste materials should be disposed off site as soon

recycling and reuse. Solid materials which cannot be

Smart waste management is massively beneficial for

costs of waste disposal, educates your employees to

make better decisions at work and home, and can reduce

rodent infestation and littering through better segregation

An inefficient municipal solid waste management system

may create serious negative environmental impacts like

infectious diseases, land and water pollution, obstruction

landfill, public dumps, or the chemical waste treatment

as possible and volumes generated during the site

recycled or reused will need to be disposed of to

formation works should be minimised, through

Steps What does the person (or group)

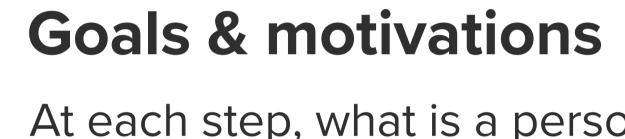
typically experience?

Interactions What interactions do they have at

- People: Who do they see or talk to? Places: Where are they?
- Things: What digital touchpoints or

each step along the way?

physical objects would they use?



At each step, what is a person's

primary goal or motivation? ("Help me..." or "Help me avoid...")

Positive moments

What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

Negative moments

What steps does a typical person find frustrating, confusing, angering,

costly, or time-consuming?

Areas of opportunity

How might we make each step better? What ideas do we have? What have others suggested?

to store trash on a temporary basis.

COVID-19 through dustbin. PLACE: The Smart Bin is ideal for busy locations such as campuses, theme parks, airports, railway stations, and shopping malls.

PEOPLE:People using the smart dustbin need not require

getting in contact with the dustbin directly, as a result of

which it minimizes the chances of getting infected from

Smart Dustbin are small plastic containers that are used

THINGS: Vegetable peels, broken items, torn clothes, used papers pencil shavings, wrappers packing papers

Smart waste management is about using technology and data to create a more efficient waste industry.

Smart Bins help to create a cleaner, safer, more hygienic

environment and enhanced operational efficiency while

reducing management costs, resources, and road-side

Dustbins in households are small so that they can fit in multiple places. Simultaneously, curbside bins are more extensive, letting people transfer garbage from indoor dustbins into larger outdoor dustbins for periodic

System requires more number of waste bins for separate waste collection as per population in the city. This results into high initial cost due to expensive smart dustbins

"Smart Dustbins". comes close to the sensing area, the lid will open automatically.

A dustbin is an essential tool for Public Health Sanitation and Safety. The government has already done its bit by installing dustbins everywhere.

less concern about whether your garbage will fit inside the trash pickup truck.

If you do not put the right waste into the right bin, it may destroy the whole recyclable material.

The Smart Bin is ideal for campuses, theme parks, airports, railway stations, and shopping malls.

Smart Dustbin works on the principle of object detection using an ultrasonic sensor. The ultrasonic sensor transmits sound waves. These waves get reflected whenever an object comes into the vicinity of the sensor. This generates an electrical signal which is used to open the dustbin lid.

hazardous materials.

conserves natural resources, and saves energy

Soil, water and air pollution can all be a result of improper waste disposal and occurs when either of them becomes contaminated with

Smart Dustbin as its name represents it works smartly or we can say that it is an automatic dustbin. It works like when you will come

It works likewise smart things. we can say that, It is a decent gadget to make your home clean and attractive. Due to practically al

offspring of home consistently make it grimy and spread trash to a great extent by paper, rappers and numerous different things.

Waste prevention, recycling, reuse, and recovery are important waste management strategies that eases the burden on landfills,

Dustbins can be used to recycle trash and thus reduce the quantity of refuse. This means lesser trips to garbage dumpsters and also

A waste management system is the strategy an organization uses to dispose, reduce, reuse, and prevent waste.

Wireless technologies used in the system such as zigbee

status of the bin.

contamination.

and wifi have shorter range and lower data speed. Ir RFID based systems, RFID tags are affected by surrounding metal objects (if any).

Automatically detects the garbage level and sends

message to respective municipal authorities updating the

will also save on costs or reduce expenses for disposal. In businesses. It makes you legally compliant, reduces

and storage of waste.

of drains and loss of biodiversity.

Smart waste management is about using technology and data to create a more efficient waste industry. Based on IoT (Internet of Things) technology, smart waste management aims to optimize resource allocation, reduce running costs, and increase the sustainability of waste services.