Smart Waste Management System for Metropolitan Cities

Customer Journey

TEAM ID - PNT2022TMID26648

Browsing, booking, attending, and rating a local city tour	Entice How does someone initially become aware of this process?	Enter What do people experience as they begin the process?	Engage In the core moments in the process, what happens?	Exit What do people typically experience as the process finishes?	Extend What happens after the experience is over?
Steps What does the person (or group) typically experience?	collect garbage separate waste alert message send to controlroom trashcan Smart City technology evolved together with the developments in wireless sensor networks (WSN) and the Internet of Things are titles essentially combine the use of ICT to provide services for sensor networks (WSN) better living conditions inside cities. The current state of technology in the field of smart waste management involves the use of sensors that measure the fill level of the trash bin. The current state of technology in the field of smart waste management involves the use of sensors that measure the fill level of the trash bin.	seperate collection and sorting expanding the recycling industry economy based as a resource and better landfill sites Metropolitan City citizens People whose house near the trashcans. Trashvan Dirvers & Workers The dustbins need to empty after it got filled the overflowing needs to avoid. Monitoring the dumpters and send the information about the garbage [evel to the eduction and better landfill sites. **The sensors senses the amount of water in trainchans and the device sensits the notification to the head office, they will come and collect the wastages.	extensive uncontrolled dumping The citizens can send the message about the surart dumpsters if any damage on the IoT device occurred. The current process of waste management starts with the waste being created by people in the cities and disposed in trash bins near its creation point. The current process of waste management starts with the waste being created by people in the cities and disposed in trash bins near its creation point. The lack of resources and capacities and a low level of disasters and become defenseless. The other is to lear disasters are excessively and to be confused.	fully digital and easy to access clean city and maintain itself and maintenance easily Awareness, education, preparedness, and prediction and warning systems can reduce the disruptive impacts of a natural disaster on communities. The user can contact our team if they feel any hardness while using the app. The device using here is help to update the content regularly and check the truthfulness.	they feel clean management system Clean india syste clean india syste The waste management services take care of a be revironment allowing optimization of the utility
Interactions What interactions do they have at each step along the way? People: Who do they see or talk to? Places: Where are they? Things: What digital touchpoints or physical objects would they use?	all human produce garbagebin urbanwaste municipal solid overflows monitoring collection is expendicture on sensor government budgets garbage produce in different area in a city vvarious widely	checking the status sensing the level of application to send of sensor bins feedback	website to monitor analyse status of easily report the the trash can dustbiiin current status of garbage	internet is neccesary to use the webapp to use the webapp the webapp to use the webapp the wind the device may send wrong information the waste	it reduces the fuel sensor can be cost for travelling collecting garbag
Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me" or "Help me avoid")	clean india make waste free protection of public encourage the environment health recycling industries	development and improvement of clean technology reduce , recycle, and to reuse encourage the adoption of sustainable production and conseption patterns	the environment to support the economic waste can be development and solid, liquid or gases superior quality of life each type has different methods of disposal	each type has different types of management industral, biological waste or organic and biomedical waste its reduce the dangerous effect	a big part of waste management deals with municipal solid waste
Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	become a smart city enhance safety reduce man power	effective way to optimization of scarb metal reuse keep the clean city resources	quality control shipping to the point improvement and exchange of waste of use process monitoring	reduse harmfull zero waste reduce the use of packaging material	protect the increase the fer environment of the soil
Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	jobless increasing cost of difficult to maintain the dustbin the dustbin	soil contamination water contamination air contamination	harm towards animal extreme weather human damage and marine life pased by climate change	loss of habitats incase of any short sensor affect by circuit water	incase of any some cloud war malfunction issue
Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested?	smart waste bins waste level sensor	Al recycling robots garbage truck weighing mechanism	pneumatic waste solar powered trash compacters	E-waste kiosk recycling apps	waste management sustainability program development