Management System for Metropolitan Cities

	Enter	Engage	Exit	Extend
	What do people experience as they begin the process?	In the core moments in the process, what happens?	What do people typically experience as the process finishes?	What happens after theexperience is over?
	Separate collection and sorting	Expanding the recycling industry	The circular economy based as a resource	Reliable collection and better landfill sites
	Metropolitan City citizens People whose house the trashcans.	Trichivan Dirvers & Workers The dustbins need to empty after it got filled. The overflowing needs to avoid.	Monitoring the dumpsters and send the information about the garbage level to the authenticated person to empty the trashcans using arduino device.	The sensors senses the amount of waste in trashcans and the device sends the notification to the head office, they will come and collect the wastages.
	checking the status sensor	sensing the level of bins	application to sendof feedback	
	development and improvement of clean technology	reduce ,recycle,and to reuse	encourage the adoption of sustainable production and conseption patterns	
	effective way to keep the clean city	optimization of resources	scarb metal reuse	
	soil contamination	water contamination	air contamination	
	pneumatic waste	solar powered trash		

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	Extensive uncontrolled dumping	Prevention	Preparation of reuse	Recycling	Fully digital and easy infrastructure to access	Clean city and maintain itself	Suitable and maintenance easily	They feel clean management system	Clean india system
	The citizens can send the message about the smart dumpsters if any damage on the IoT device occured.	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 knowledge and education emerged as all case studies as major root causes for several drivers of disaster risk.	One is to think little of disasters and become defenseless The other is to fear disasters excessively and to be confused.	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.	Some trash bins are overfilled while others are underfilled by the trash collection time	The waste management services take care of a healthy environment allowing optimization of the oblitties and prevent overloading the carrier for waste disposal.
	website to monitor trash can	analyze status of dustbin	easily report the current status of garbage		internet is to use the webapp	the device may send wrong information	feel easy to monitor the waste	it reduces the fuel cost for travelling	sensor can be damaged when collecting garbage
	the environment to support the economic development and superior quality of life	waste can be liquid or gases	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	well maintained area
	quality control improvement and monitoring	exchange of waste	shipping to the point of use process		reduse harmfull waste water	zero waste	reduce the use of packaging material	protect the environment	increase the fertility of the soil
	human damage	harm towards animal and marine life	extreme weather pased by climate change		loss of habitats	incase of any short circuit	sensor affect by water	incase of any malfunction	some cloud warning issue

	Separate waste	Alert message send to control room	View details on trashcans
	Smart cities essentially combine the use of ICT to provide services for 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 solution presented in this article focuses on the mitigation of these deadvantages by the implementation of RFID based trash identification systems and additional weight sensor for unserved fill level estimation.
	garbage bin overflows monitoring by the ultrasonic sensor	urban waste collection is expenditure on government budgets	
	garbage produce in different area in a city various widely		
	make waste free environment	protection of public health	encourage the recycling industries
	enhance safety	reduce man power	
	increasing cost of the dustbin	difficult to maintain the dustbin	
	waste level sensor		

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	AI recycling robots	garbage truck weighing mechanism		