Project Design phase-1

Proposed Solution Template

Team ID	PNT2022TMID40285
Project name	Smart waste management system

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem	•
1.		This project deals with the problem of waste
	Statement	management in smart cities, where the
	(Problem to be	garbage
	Solved).	collection system is not optimized. This
		project
		enables the organizations to meet their needs
		of smart garbage management systems. This
		system allows the authorised person to know
		the fill level of each garbage bin in a locality
		or
		city at all times, to give a cost-effective and
		time-saving route to the truck drivers.
2.	Idea / Solution	The key research objectives are as follows:
_,	description	• The proposed system would be able to
	description	automate the solid waste monitoring process
		and management of the overall collection
		process using IOT (Internet of Things).
		• The Proposed system consists of main
		•
		subsystems namely Smart Trash
		System(STS)
		and Smart Monitoring and Controlling
		Hut(SMCH).
		• In the proposed system, whenever the
		waste
		bin gets filled this is acknowledged by
		placing
		the circuit at the waste bin, which transmits
		it
		to the receiver at the desired place in the
		area
		area

		or spot.
		• In the proposed system, the received signal
		indicates the waste bin status at the
		monitoring and controlling system.
3.	Novelty /	We are going to establish SWM in our
	Uniqueness	college
		but the real hard thing is that janitor
		(cleaner)
		don't know to operate these thing practically
		so
		here our team planned to In this regard,
		smart city design has been
		increasingly studied and discussed around
		the
		world to solve this problem. Following this
		approach, this paper presented an efficient
		IoTbased and real-time waste management
		model
		for improving the living environment in
		cities,
		focused on a citizen perspective. The
		1 1
		proposed
		system uses sensor and communication
		technologies where waste data is collected
		from the smart bin, in real-time, and then
		transmitted to an online platform where
		citizens can access and check the availability
		of
		the compartments scattered around a citbuild
		a wrist band to
		them, that indicate via light blinking when
		the
		dustbin fill and this is Uniqueness we made
		here beside from project constrain.
4.	Social Impact /	From the public perception as worst impacts
	Customer	of
	satisfaction	present solid waste disposal practices are
		seen
		direct social impacts such as neighbourhood
		of
		landfills to communities, breeding of pests
		and
		loss in property values
5.	Business Model	Waste Management organises its operations
	(Revenue	into two reportable business segments:
	Model)	
L	1.10401)	

		Solid Waste, comprising the Company's
		waste
		collection, transfer, recycling and resource
		recovery, and disposal services, which are
		operated and managed locally by the
		Company's various subsidiaries, which
		focus on
		distinct geographic areas; and
		Corporate and Other, comprising the
		Company's other activities, including its
		development and operation of landfill gas-
		toenergytoenergy facilities in the INDIA,
		and its recycling
		brokerage services, as well as various
		corporate
		functions.
6.	Scalability of the	In this regard, smart city design has been
	Solution	increasingly studied and discussed around
		the
		world to solve this problem. Following this
		approach, this paper presented an efficient
		IoTbased and real-time waste management
		model
		for improving the living environment in
		cities,
		focused on a citizen perspective. The
		proposed
		system uses sensor and communication
		technologies where waste data is collected
		from the smart bin, in real-time, and then
		transmitted to an online platform where
		citizens can access and check the availability
		of
		the compartments scattered around a city.