Date	09-10-2022
Team ID	PNT2022TMID37949
Project name	Smart Waste Management
Maximum marks	4

FUNCTIONAL REQUIREMENT:

FR NO.	FUNCTIONAL	SUB REQUIREMENT
	REQUIREMENT(Epic)	(Sub-task)
1.	Real time monitoring bins	*The Dashboard displays real- time data on fill-levels of bins
		monitored by smart sensors. In
		addition to the % of fill-level,
		based on the historical data,
		the tool predicts when the bin
		will become full, one of the
		functionalities that are not
		included even in the best
		waste management software.
		*Sensors recognize picks and
		can check when the bin was
		last collected. With real-time
		data and predictions, we can
		eliminate the overflowing bins.
2.	Adjust bin distribution	*Ensure the most optimal
		distribution of bins. Identify
		areas with either dense or
		sparse bin distribution.
		* Make sure all trash types are
		represented within a stand.
3.	Eliminate inefficient picks	*Eliminate the collection of
		half-empty bins. The sensors
		recognize picks.
		* The report shows how full
		the bin was when picked. You immediately see any inefficient
		picks below 80% full.
		pieks below 60% full.
4	Plan waste collection	*The tool semi-automates
4.	Fian waste conection	waste collection route
	routes	planning.
		*Based on current bin fill-levels
		and predictions of reaching full
		capacity, we are ready to
		respond and schedule waste
		collection.

NON-FUNCTIONAL REQUIREMENT:

NFR NO.	NON-FUNCTIONAL REQUIREMENT	DESCRIPTION
1.	Availability	*By developing & deploying resilient hardware and beautiful software we empower cities, businesses, and countries to manage waste smarter.
2.	Scalability	*Using smart waste bins reduce the number of bins inside town, cities coz we able to monitor the garbage 24/7 more cost effect and scalability when we moves to smarter
3.	Reliability	*Smart waste management is also about creating better working conditions for waste collectors and drivers. *Instead of driving the same collection routes and servicing empty bins, waste collectors will spend their time more efficiently, taking care of bins that need servicing.
4.	Security	*Use a reusable bottles. *Use reusable grocery bags.