WB S NO. Activity Project	earliest start date	Latest End date	Resources	Timelines
<ul><li>1 management</li><li>2 Canvanizer</li><li>3 Video presentation</li></ul>	23-Jul-19 8-Aug-19	7-Aug-19 23-Aug-19	Time and Computer Time and Video caputing equipment	
Market research 4 cost report 5 Prototype	24-Aug-19 1-Sep-19	8-Sep-19 25-Sep-19	Time and research cost	
5.1 Process mapout ldentify the control	1-Sep-19 3-Sep-19		•	
system  Required devices to be connected		1 666 16	paper	
6.1 Identify the sensor			Inductive and conductive proximity sensor and raspberrypi camera	
6.2 Identify the Actuator Identify the			Servo motor 180 degree rotation	
intermediate device IOT protocol consderations			Arduino mega and Raspberrypi Range within the shop	
<sup>8</sup> IoT protocol choice			Wifi Volume, limited data range,	
8.1  Type generated  8.2 Storage solution			partly processed in fog, analysis shared on web Local server, backed up	
8.3 analysis overview Programming Required			Identify the type of material and report to the device for functioning	
9.1 device function			programming to record the type of material. Holds data for 24 hours unless in contact with wifi when it uploads data.  Data from sensor directed to wifi	
9.2 networking requirment			on AWS IOT.AWS lot send data to device via wifi to direct actuator	

9.3

data management

- 10 Security and privacy consideration
- <sup>10</sup> deivce
- 10 network
- 10 data

Data needs algorithm to identify material that suggests whether the material is metallic or non metallic,help device to seprate the material in different bin

Need to be secured from water, dust
Resisit the wifi coverge outside the shop and stop being connected that wifi to other
Protect historical data from being lost, stolen or ransomed, guard against re-setting of algorithm so shows all material are metallic or all non metallic

Risk assetment