



PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013

Itgalpura, Rajankunte, Yelahanka, Bengaluru – 560064



E-waste Facility Locator

A PROJECT REPORT

Submitted by

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Under the guidance of,

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BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

PRESIDENCY UNIVERSITY

BENGALURU

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PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this report "E-waste Facility Locator" is a bonafide work of "Thejas C (20221CSE0626), T M Tejashwini (20221CSE0624), Vinay K Hiremath (20221CSE0628)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING during 2025-26.

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DECLARATION

We the students of final year B.Tech in COMPUTER SCIENCE AND ENGINEERING at Presidency University, Bengaluru, named Thejas C, T M Tejashwini, Vinay K Hiremath, hereby declare that the project work titled “E-waste Facility Locator” has been independently carried out by us and submitted in partial fulfilment for the award of the degree of B.Tech in COMPUTER SCIENCE AND ENGINEERING during the academic year of 2025-26. Further, the matter embodied in the project has not been submitted previously by anybody for the award of any Degree or Diploma to any other institution.

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DATE: 1st December 2025

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Abstract

The E-waste (electronic waste) has been one of the swiftest growing waste products in the world and posing significant environmental and health risks to people because of toxic elements like lead, mercury and cadmium that occur in dumped electronic (electronics) items. Inappropriate disposal is a source of contamination of soil, water, and air, thus leading to an ecological and health loss in the long term, such as respiratory and neurological conditions. The issue is exacerbated by the low level of public consciousness and proper separation at the source area and lack of information on certified recycling sources resulting in the abuse of valuable materials that can be recycled and release of harmful elements to the environment.

This project will attempt to fill these gaps with a web based E-waste Facility Locator and Awareness Platform using geolocation technology, interactive information delivery and user interaction mechanisms. The system allows everyone to find local certified recycling plants on a map-based platform and has easily understandable educational pop-ups detailing environmental and health effects of different E-waste elements. To further persuade responsible disposal, the site will introduce a credit point program using estimated metal recovery so that the user is more enticed to recycle metal regularly in addition to allowing them to monitor how they are contributing to the reduction of pollution and the loss of resources.

The solution will ensure that making responsible E-waste management more convenient, aware and motivating by bringing more general population to the solution to the problem. An overview reveals that the platform is practically possible within the current web-related technologies and geolocation APIs, which mentioned have little hardware demands. It is predicted that more recycling activities will take place, informal disposal will be less polluting, and sustainable waste use will be better understood - contributing to long-term behaviour change and helpful to environmentally responsible communities. Moreover, the platform can be developed in future to add such functionalities as pickup scheduling, live-location disposal alerts, and connection to government-usable recyclers. It also offers the element of community team work and raising awareness, whereby everyone participates. On the whole, the relevant solution promotes the transition to a circular economy and reinforces national initiatives to build sustainable waste management.