



EcoRecover

REVOLUTIONIZING WASTE
MANAGEMENT & SUSTAINABILITY

"In a world where responsible waste management and sustainability are paramount, EcoRecover emerges as a beacon of change. This innovative online platform tackles waste management challenges and promotes sustainability through recycled product sales, offering a glimpse into the future of eco-friendly practices and efficient waste management"





The core users of EcoRecover

Waste Generators, Waste Generators, including individuals, play a pivotal role in EcoRecover.

They use the platform for efficient waste collection and responsible disposal, scheduling bin collections, booking waste management-related events, and actively embracing eco-friendly practices.

Their actions collectively promote an environmentally conscious approach to waste management.



Administrator

Admins play a pivotal role in EcoRecover as system administrators.

Their responsibilities include overseeing user accounts, managing waste bin orders for efficient collection, and ensuring the proper authorization of waste disposal processes.

Their actions are crucial in maintaining system integrity and facilitating smooth waste management operations.



Event Managers

Event Managers are integral users of EcoRecover, taking charge of organizing and overseeing various sustainability initiatives, including recycling events, workshops, and seminars.

Through their efforts, they create a platform that promotes and facilitates sustainable practices, fostering environmental awareness and participation among users.

EcoRecover Empowers Through

User Authentication:

- Ensure secure access for authorized users.
- Protect sensitive data and functionalities.

Waste Collection Module:

- Enable waste generators to book waste bins for collection.
- Includes features like waste bin booking, order creation, rescheduling, and collection date/time scheduling.





EcoRecover Empowers Through

Waste Type Recognition and Disposal:

- **Utilize image classification to recognize waste types.**
- **Suggest appropriate disposal methods based on the waste category.**

Recycling Drives, Workshops, and Seminars:

- **Facilitate event management, including waste collection and disposal events, green fairs, and expos.**



User Functionalities

Waste Generators:

- Registration and login.
- User profile creation.
- Waste bin booking and rescheduling.
- Secure payment processing.
- Feedback submission.
- Campaign booking.

User Functionalities

Administrator Functionalities:

- Admin login for system oversight.
- User account management.
- Bin order management.
- Waste disposal authorization.



User Functionalities

Event Manager Functionalities:

- Registration and login.
- Event details management, including addition, updates, and deletion of events.



Technologies used in EcoRecover

Web Development Stack:

- **HTML, CSS:** Structure and design web pages.
- **Bootstrap:** Creates a responsive and user-friendly interface.
- **SQLite:** Efficient data management and storage.
- **Django Framework:** The foundation for platform development.





Technologies used in EcoRecover

Educational Initiatives:

- **Webinars, workshops, and sustainability campaigns to raise awareness and engage users.**

Global Expansion (Future Outlook):

- **Potential to expand the platform's impact to a global scale.**



Technologies used in EcoRecover

Waste Classification and Disposal with CNN Technology:

- **Image Recognition:** Identifying waste types through image analysis.
- **Real-time Classification:** Instantly categorizing waste into recyclable, organic, or hazardous.
- **Suggested Disposal:** Recommending appropriate disposal methods based on the waste category.

A photograph of a person's lower legs and feet. They are wearing blue denim jeans with frayed hems and brown suede sneakers with white laces and white soles. A green recycling symbol is visible on the sole of the right shoe. The background is a plain, light gray.

Towards a Sustainable Tomorrow

Future Scope of EcoRecover

- **Global Expansion:** EcoRecover can expand its reach to a broader audience, making its eco-conscious services available to a global community.
- **Mobile Applications:** Developing dedicated mobile applications can provide users with convenience and real-time access to waste management solutions.

Towards a Sustainable Tomorrow



- **Data-Driven Insights:** Advanced analytics and machine learning can provide valuable insights into waste management trends, leading to optimized strategies.
- **Educational Initiatives:** Launching campaigns, webinars, and workshops can raise awareness and encourage participation in eco-friendly practices.



Towards a Sustainable Tomorrow

- **Environmental Impact Assessment:** Collaborating with environmental organizations to measure and report the platform's impact on sustainability.
- **Waste-to-Energy Solutions:** Exploring innovative solutions for converting waste into renewable energy sources.



Thank you

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