

1. Problem Statement

Climate change demands action, but most people lack simple tools to understand and manage their carbon impact.

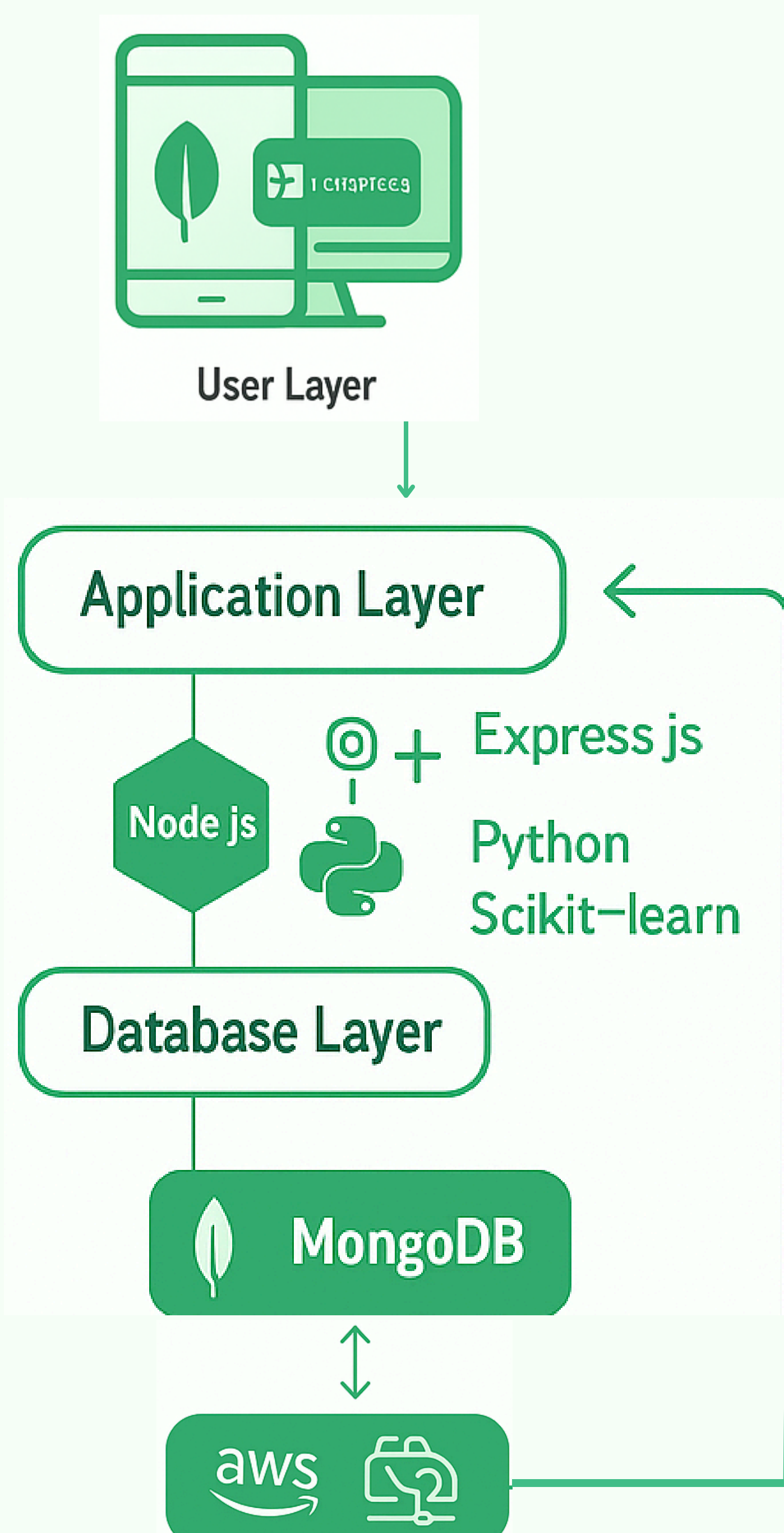
CARBONSMART is a mobile app that makes carbon tracking easy and accurate, allowing users to log daily activities, estimate emissions, and get personalized tips to live more sustainably.

2. Aim and Objectives

- Design an easy interface for activity data input.
- Use carbon emission APIs for accurate results.
- Build an AI engine to suggest greener choices.
- Show real-time emissions through visual dashboards.

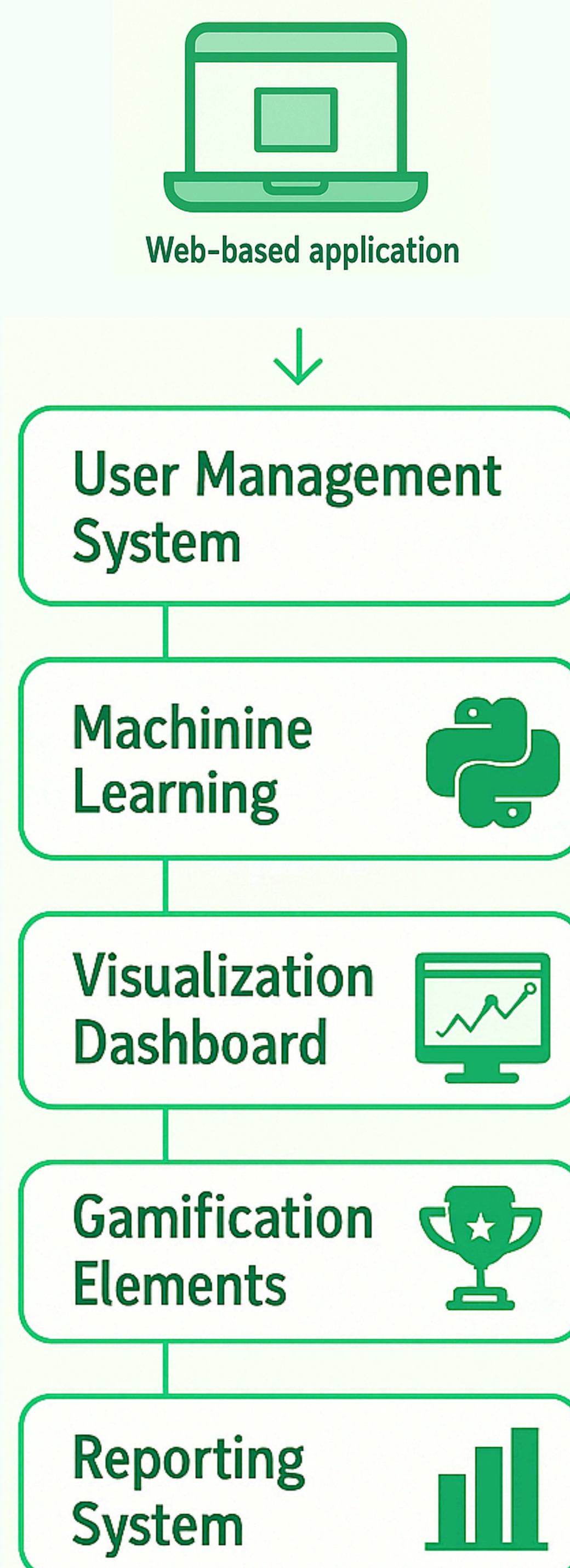
3. Architecture

Following diagram illustrates the basic architecture of the platform.

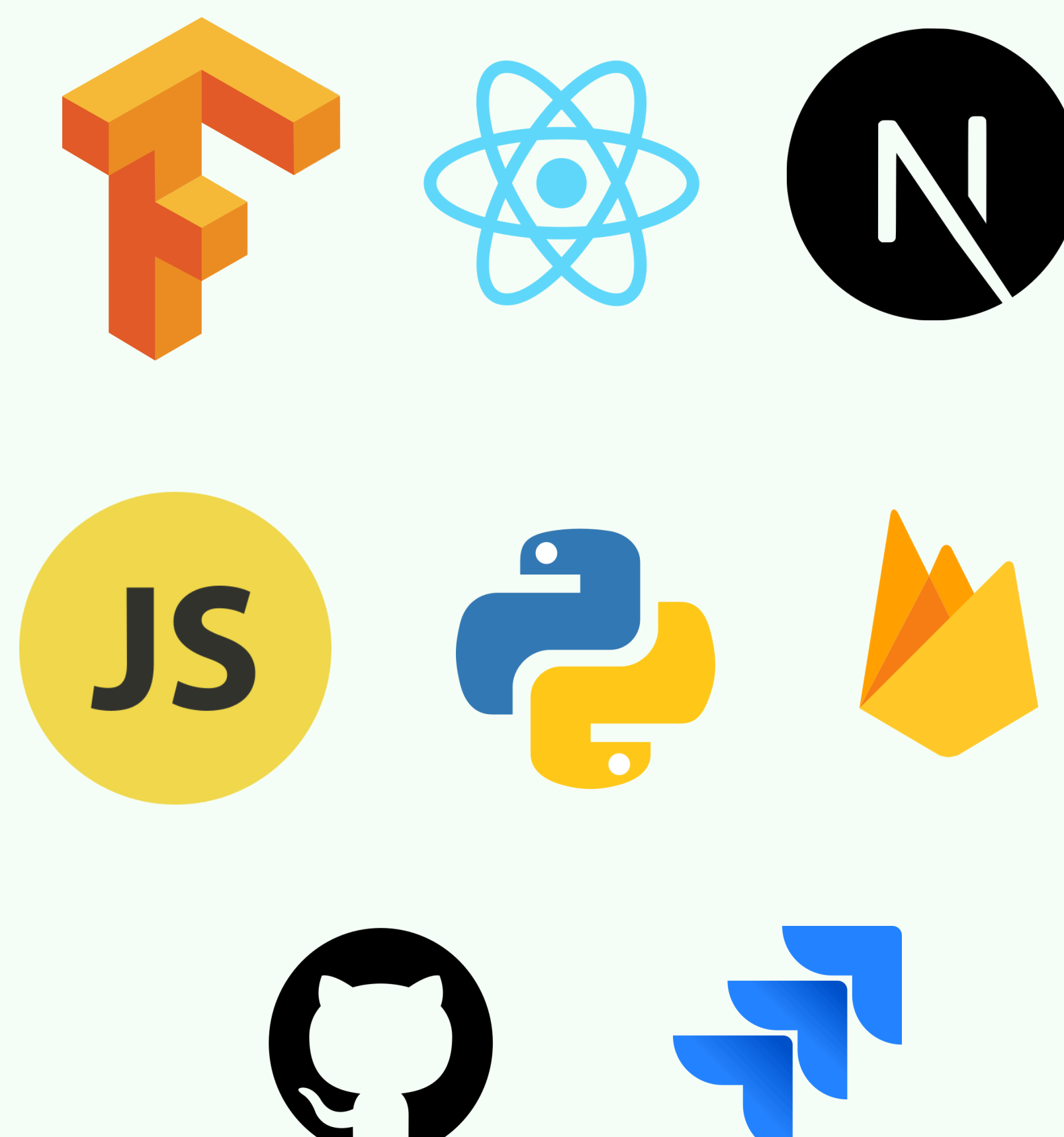


4. Implementation

This is a web-based, mobile-responsive system integrating AI, analytics, and gamification to promote sustainable living. It includes user management, data input, calculation engine, machine learning, visualization, gamification, and reporting modules.

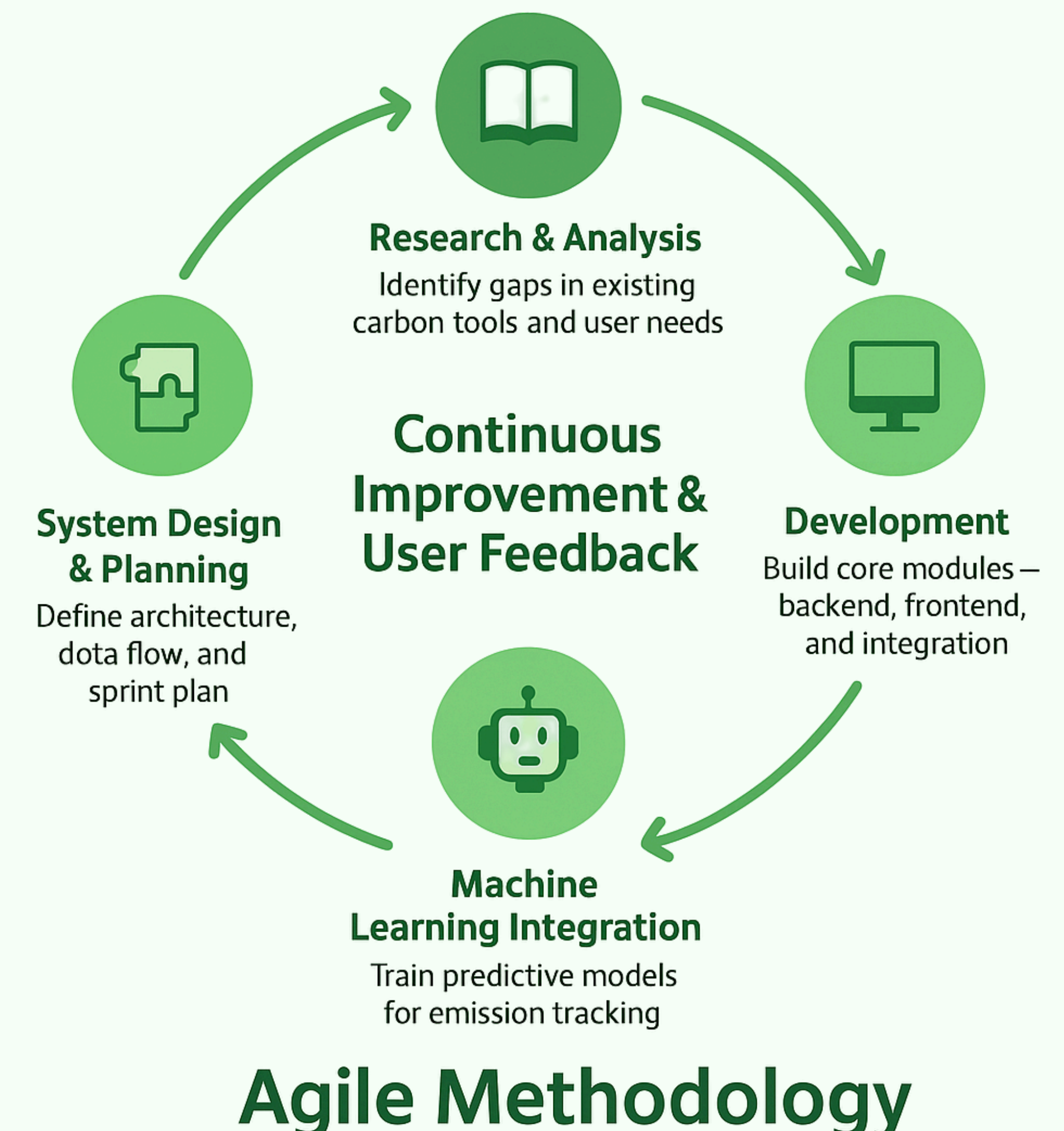


5. Dev Tools



6. Methodology

The project follows an Agile methodology, promoting flexibility, collaboration, and continuous improvement through iterative sprints that enable early feedback and refinement.



7. Conclusion

CarbonSmart provides an intelligent, user-friendly solution for tracking and reducing personal carbon footprints. Through continuous monitoring and data-driven insights, it empowers individuals to adopt more sustainable lifestyles.

8. SDGs

