



Team Name – 729950-U964BJ4S





TEAM NAME and MEMBER DETAILS

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THEME: *Green Commerce*



PROBLEM STATEMENT

- In an era where environmental consciousness is paramount, consumers are increasingly interested in eco-friendly goods. However, the absence of standardized information makes it difficult to make informed decisions. Our solution intends to address this by developing a system that calculates and communicates a product's Eco-Score, which includes carbon emissions, water consumption, and sustainable packaging.
- The challenge is to establish a methodology for Eco-Scores and seamlessly integrate them into the purchasing experience. It must accommodate various vendors and products. This interdisciplinary endeavor will empower consumers to make environmentally conscious decisions while strengthening Amazon's dedication to sustainability.



SOLUTION

How it Helps to Solve the Problem:

To solve the problem of informing customers about the sustainability of products, we propose creating an Eco-Score system and integrating it into Amazon's shopping experience. The Eco-Score will provide a standardized measure of each product's environmental impact, helping customers make eco-conscious choices.



SOLUTION

Impact Metrics:

- **Eco-Score Adoption Rate:** The percentage of products on Amazon's platform with assigned Eco-Scores.
- **User Engagement:** Monitor how frequently customers use the Eco-Score information while making purchasing decisions.
- **Carbon Emission Reduction:** Measure the reduction in carbon emissions resulting from customers choosing eco-friendly products.
- **Customer Satisfaction:** Collect feedback and satisfaction ratings from users regarding the Eco-Score system's usefulness.
- **Sales of Sustainable Products:** Track the increase in sales of products with high Eco-Scores.

Frameworks/Technology Stacks:

- **Data Analytics:** Utilize machine learning algorithms for calculating Eco-Scores.
- **Cloud Infrastructure:** Leverage cloud computing for scalability and data storage.
- **Web Development:** Create a user-friendly interface using web technologies.
- **Database Management:** Implement a database to store and retrieve product information and Eco-Scores.
- **Data Visualization:** Use data visualization tools to display Eco-Scores to customers.



SOLUTION

Assumptions, Constraints, and Solution Decision Points:

- **Data Availability:** Availability of data on product sourcing, manufacturing, and transportation.
- **Data Accuracy:** Assumption that data sources are reliable and accurate.
- **Scalability:** The chosen technology stack should support the growing volume of products and users.
- **User Adoption:** Assumption that customers will actively engage with the Eco-Score system.
- **Sustainability Commitment:** Amazon's commitment to implementing the Eco-Score system.

Implementation and Effectiveness:

The implementation can be gradual, starting with high-impact product categories and expanding over time. The effectiveness will depend on user adoption and engagement with Eco-Scores. Initially, it may require efforts in data collection and integration, but as the system becomes integrated into Amazon's platform, it will become more effective at informing and influencing consumer choices.

Scalability/Usability:

The solution can be highly scalable as it can accommodate a wide range of products and sellers. Its usability will be subject to user interface design, which should be intuitive and integrated seamlessly into the existing shopping experience. It should be easily accessible via web and mobile platforms to ensure widespread usability.



METHODOLOGY

- Architecture Diagram : [Link](#)
- Flow Chart : [Link](#)
- Wireframes : [Link](#)



SOCIETAL IMPACT/ NOVELTY

- The adoption of the Eco-Score solution has the potential to bring about significant positive impacts. It will increase consumer awareness about the environmental impact of products, leading to a shift towards more sustainable choices.
- This, in turn, can reduce carbon emissions, incentivize businesses to prioritize sustainability, and promote environmental education.
- The solution can also lead to data-driven decision-making, foster partnerships, and enhance corporate responsibility, ultimately scaling its impact and contributing to broader sustainability efforts.



FUTURE SCOPE

- **Business Relevance:** The Eco-Score solution is highly pertinent to the business as it caters to the increasing consumer demand for eco-friendly products, potentially boosting revenue. It also enhances the company's brand image by showcasing environmental responsibility. Data collected can inform strategic decisions and supply chain optimization, supporting long-term success.
- **Optimization:** Continuous optimization of the solution is crucial. This includes refining data sources and algorithms, improving user experience, expanding coverage to more products and sellers, and optimizing the supply chain based on gathered insights.
- **Scope for Modification:** The Eco-Score system is adaptable and can be modified as needed. Potential modifications encompass adding new environmental metrics, accommodating regional differences, collaborating with external data sources, introducing gamification or rewards, and implementing feedback mechanisms. This adaptability ensures the solution's relevance in a changing business landscape.



THANK YOU