Interactive Onboarding Guide

Content & Implementation Plan

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1. Objective

This document provides a detailed guide for the Replit Agent to implement an interactive, step-by-step onboarding tour for the **Enhanced LCA Data Collection Form**. The goal is to assist non-expert users in filling out the required fields accurately by providing clear, narrated explanations for each step, similar to a game tutorial.

2. Part 1: Technical Implementation

2.1. Frontend Technology

- **Requirement:** We need a library to create a sequence of guided popups that highlight different elements on the page.
- **Technology:** We will use **Shepherd.js**, a popular and highly configurable open-source library for creating product tours. It integrates well with React.

2.2. Implementation Logic

- **Trigger:** On the first tab of the Enhanced LCA Data Collection form, a prominent button or link will be visible: **"Need help? Start the Guided Tour."**
- **Tour Initiation:** Clicking this button will initialize the Shepherd.js tour.
- **Step-by-Step Navigation:** Each step in the tour will:
  1. Highlight a specific input field or section on the form.
  2. Display a modal popup next to it with the explanatory text.
  3. Have "Next" and "Previous" buttons to navigate the tour.
  4. Allow the user to "Exit" the tour at any time.
- **Content Storage:** The text content for each step (the "narration") will be stored in a simple JSON file within the frontend codebase for easy editing.

3. Part 2: Content Script for Narrated Popups

This section contains the exact text for each popup, corresponding to the fields in the Enhanced LCA Data Collection Guide.

Tour Start

- **Popup Text:** "Welcome to your LCA questionnaire! This guided tour will walk you

through each step to ensure you provide the most accurate data. Let's get started!"

Tab 2: Agriculture & Ingredients

- **Field: main_crop_type**
  - **Narration:** "First, tell us about the primary agricultural ingredient for your drink. For a whisky this would be barley, for a rum it might be sugar cane, and for our Avallen Calvados, it's apples!"
- **Field: yield_ton_per_hectare**
  - **Narration:** "This is the 'yield' of your crop. We need to know, on average, how many tonnes of your main ingredient are harvested from one hectare of land. You can usually get this information from your farm or grower."
- **Field: diesel_l_per_hectare**
  - **Narration:** "This helps us account for the fuel used by farm machinery during cultivation and harvesting. Please enter the average litres of diesel used per hectare. An estimate is perfectly fine to start with."
- **Section: "Other Ingredients"**
  - **Narration:** "Here, you can add any other minor ingredients, like yeast, botanicals, or flavourings. Just add each one and its amount. Don't worry about water just yet!"

Tab 3: Packaging

- **Section Intro:**
  - **Narration:** "Now let's break down your product's packaging. It's really important to add every single component here, from the bottle right down to the label and stopper, as packaging is often a major part of a product's footprint."
- **Field: component_type**
  - **Narration:** "Start by choosing the type of component you're adding from the list."
- **Fields (for "Container"): Material, Weight (g), Recycled Content (%)**
  - **Narration:** "This is the most important part. Enter the material of your bottle or can, its weight in grams (you can find this on the manufacturer's spec sheet), and the percentage of recycled content it contains. Higher recycled content is great for sustainability!"

Tab 4: Production & Processing

- **Section: "Inbound Transport"**
  - **Narration:** "Here, we need to know how your raw materials get to your production facility. Just enter the average distance in kilometers and the main

type of transport used."

- **Section: "Processing"**
  - **Narration:** "This section is about the energy and water used inside your facility to turn your ingredients into the final liquid. Try to be as accurate as you can, but good estimates are fine."
- **Field: lpg_kg_per_l_alcohol**
  - **Narration:** "For spirits, this is the fuel used to heat your stills during distillation. If you use natural gas or another fuel, you can convert it to kWh and enter it in the electricity field."

Tab 5: Distribution & Logistics

- **Field: avg_distance_to_dc_km**
  - **Narration:** "This is about 'outbound' logistics. Tell us the average distance your finished product travels from your facility to your first main warehouse or distribution centre."

Tab 6: End of Life

- **Field: recycling_rate_percentage**
  - **Narration:** "Based on your main market (e.g., the UK), what is the average recycling rate for your primary container type? You can find this in public data, or we can help you with an estimate."
- **Field: primary_disposal_method**
  - **Narration:** "If your product is not recycled, what is the most common disposal method in your primary market? This is usually 'Landfill' or 'Incineration'."

Tour End

- **Popup Text:** "That's it! You've completed the questionnaire. You can now review your data and, when you're ready, click to generate your first LCA report. Well done!"