



कृषि एवं किसान
कल्याण मंत्रालय
MINISTRY OF
AGRICULTURE AND
FARMERS WELFARE



NATIONAL BANK FOR
AGRICULTURE AND RURAL
DEVELOPMENT

Powered by
I2S
HACK2GROW

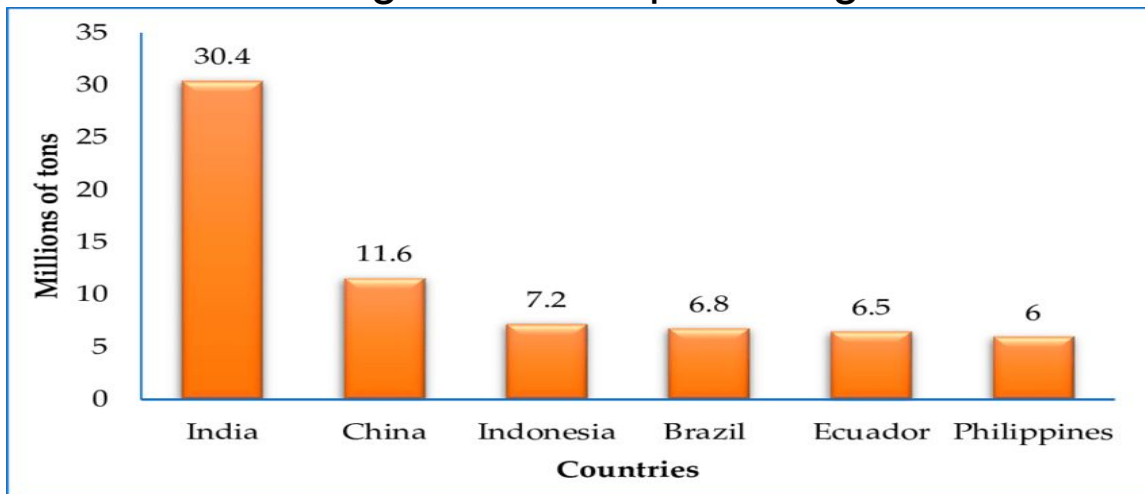
AGRISURE GREENATHON

Team Details

- Team Name: Bioprofit Engineers
- Team Leader Name: Sivasree K

Problem Statement:

- India is one of the largest banana producing countries in the world.



- For every tons of banana processed, about 500 kg of peel is generated. What is the best solution to reduce this wastage?

Brief about the idea:

- The procedure involves fermenting banana peels with sugar and yeast. Typically, the peels are browned and mashed before being incorporated with water and sugar for fermentation.
- The wine has a distinct flavor profile and is often prepared as an innovative way to reuse garbage.

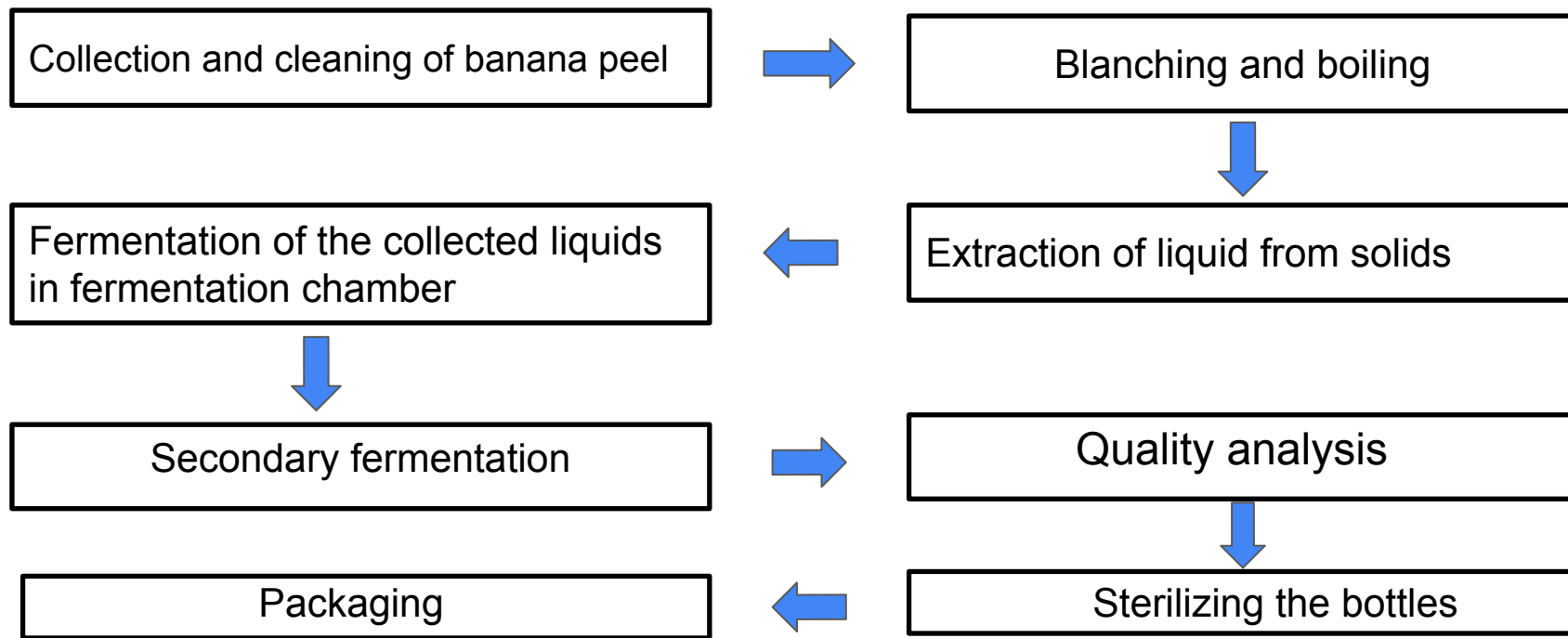
Opportunities:

- Banana peel wine differs from other homemade wines primarily in its use of banana peels, which are typically discarded.
- Most traditional wines are made from the fruit itself, such as grapes, apples, or berries. The use of peels adds a unique flavor and reduces waste, making it an innovative approach to winemaking.
- It utilizes banana peels, lowering food waste and promoting eco-friendly behaviors.
- The wine has a distinctive taste profile that sets it apart from regular fruit wines, making it appealing to consumers seeking for novel and artisanal beverages.

List of features offered by the solution:

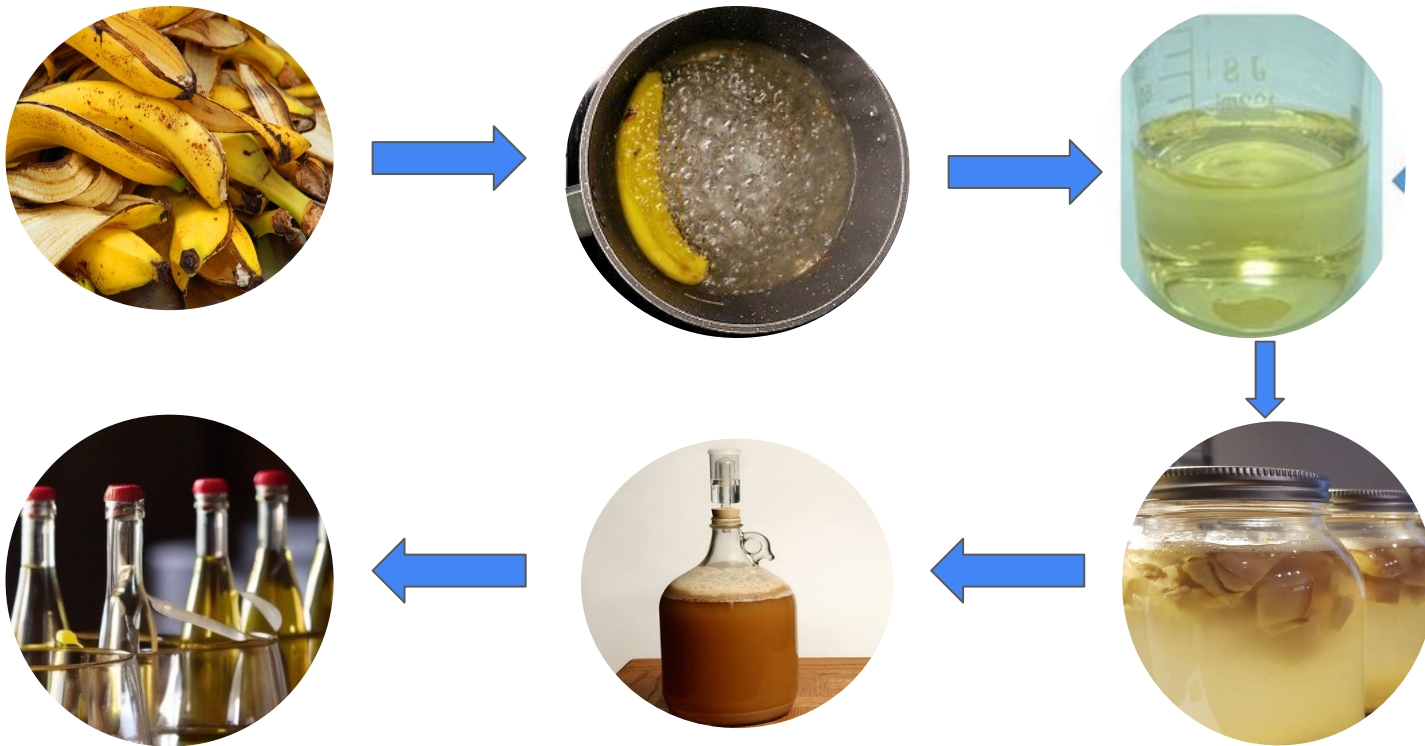
- Transforms discarded banana peels into a valuable product, reducing food waste. Provides a low-cost ingredient for wine production, potentially lowering production costs
- Creates new opportunities for banana producers, processors, and small-scale wineries.
- Utilizes the nutritional benefits of banana peels, including antioxidants, vitamins, and minerals.
- Stands out in the market as a unique and eco-friendly product that will appeal to environmentally conscious customers.

Process flow diagram or Use-case diagram



Wireframes/Mock diagrams of the proposed solution (optional)

Architecture diagram of the proposed solution



Technologies to be used in the solution

- Extraction and Processing Technology
 - Grinders
 - Pressers
- Fermentation Technology
- Filters
- Clarification tanks
- Sanitization and Sterilization Technology
- Packaging Technology

Estimated implementation cost (optional)



कृषि एवं किसान
कल्याण मंत्रालय
MINISTRY OF
AGRICULTURE AND
FARMERS WELFARE

सत्यमेव जयते



NATIONAL BANK FOR
AGRICULTURE AND RURAL
DEVELOPMENT

Powered by



AGRISURE GREENATHON



Win Cash Prizes Worth

₹6,00,000/-

THANK YOU