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(57) Abstract :

The invention relates to an intelligent grocery management system integrating health data and budget tracking. It includes a user data acquisition module for collecting personal, health, and budget information, enhanced by a sign-up module and a health input module. A data normalization and user profiling module processes the collected data to generate a comprehensive user profile, while a product information database stores detailed nutritional, allergen, pricing, and branding information. A recommendation engine employing machine learning algorithms provides personalized grocery suggestions, and a budget optimization module monitors expenditures in real time against user-defined budgets and issues alerts. A dynamic update module further recalibrates recommendations with real-time user input, ensuring responsive health-based and budget-friendly grocery management.

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