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(57) Abstract :

ABSTRACT Disclosed herein is a smart soda fountain system (100) with multi-flavour customization and digital payment integration comprising a vending machine (102) comprises a stainless steel cabinet (104) comprises a touchscreen display (106) serves as primary user interface, a plurality of flow sensors (108) measure precise volume, a glass dispenser with locking mechanism (110) release only one glass, a plurality of solenoid valves (112) control flow, a microcontroller (116) control and coordinate operations, further comprises, a data input module (118) receive real-time data, a data pre-processing module (120) validate and process, a glass size selection module (122) determine a dispensing volume, a flavour selection module (124) allow user to select the flavours, a payment processing module (128) generate a digital payment, a soda dispensing module (130) receive payment confirmation, an output module (138) generate transaction data, a communication network (140) establish a communication link, a user device (142) display real-time information.

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