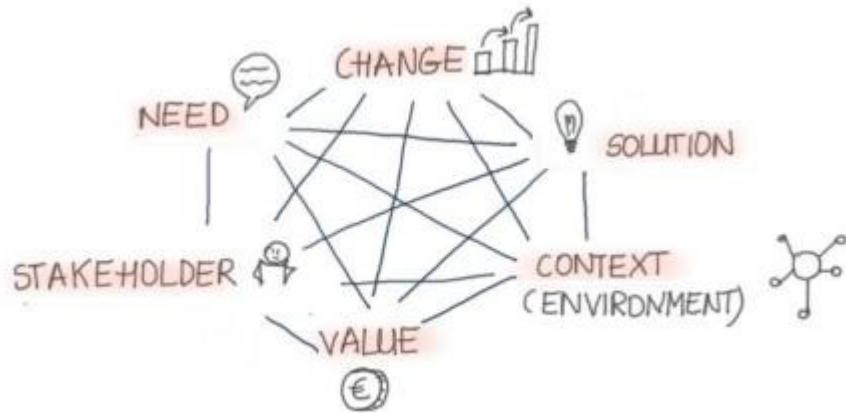


Business Analysis Solution



What is Solution?

Solution is described as a specific way of satisfying needs in a context by resolving a problem or enabling an opportunity



Proposed Solution for SB BSU Canteens

The School of Business will implement a **modernized, standardized, and student-centered canteen system** that ensures consistent quality, efficiency, and accessibility across all locations.

Solution Components

1. Infrastructure & Layout Improvements

Redesign and optimize storage areas for sports equipment with **clear zoning** (e.g., by sport, frequency of use).

Reconfigure multi-purpose sports facilities to allow simultaneous activities without interference.

Install clear signage, accessible equipment racks, and safe traffic flow paths in gyms and activity areas.

2. Curriculum & Activity Enhancement

Diversify physical activities offered to include yoga, martial arts, functional training, and recreational sports.

Standardize safety and quality protocols for each activity.

Collect regular feedback from students and instructors to adjust offerings.

3. Technology Integration

- Develop a digital platform (app/web) for real-time booking of facilities and equipment.**
- Implement an inventory tracking system using QR codes or RFID tags to monitor equipment condition and location.**
- Use smart scheduling software to optimize class times, facility usage, and task completion windows.**

4. Staffing & Operations

- Train PE staff in inventory management systems and digital booking tools.**
- Hire additional part-time staff during peak hours or for special events.**
- Establish clear procedures for equipment checkout, return, maintenance, and loss reporting.**

5. Equipment & Inventory Management Upgrade

- Replace outdated or damaged equipment with modern, safe alternatives.**
- Introduce a preventive maintenance schedule and regular audit cycles.**
- Ensure all equipment meets safety standards and is stored properly after use.**

6. Governance & Continuous Improvement

- Form a PE Oversight Committee (students, staff, administration) to monitor program quality.**
- Conduct regular audits of inventory accuracy, facility cleanliness, and schedule adherence.**
- Publish transparent reports on usage metrics, student feedback, and improvement initiatives.**

Expected Outcomes

- Reduced equipment loss and improved inventory accuracy.**
- Optimized facility usage with minimal scheduling conflicts.**
- Enhanced student and staff satisfaction through flexible scheduling and well-maintained equipment.**
- Increased safety and compliance with health and sports regulations.**
- Strengthened reputation of the School of Business as an institution that values holistic student development.**

Function 1	Check Real-Time Equipment Availability & Facility Schedule
Actor	Student / PE Instructor / Staff
Description	Allows users to view real-time availability of sports equipment and facility schedules to plan activities efficiently.

Starting Event	User opens the PE app or views a digital screen in the sports complex.
Preconditions	User has app installed or access to screen; inventory and booking data are live.
Postconditions	System displays current equipment/facility status, enabling informed decisions.
Main Stream	<ol style="list-style-type: none"> 1. System shows list/map of facilities and equipment with status. 2. User filters by type, availability, or location. 3. System retrieves live data: available units, booking slots, wait times. 4. System displays details, e.g., "Basketballs: 8 available, Gym A: free until 3 PM." 5. User can reserve equipment or book a slot directly.
Alternative Streams	<ul style="list-style-type: none"> - If unavailable, system suggests alternatives or next available slots. - If data is offline, system shows cached schedule with a disclaimer.
Business Rules	<ul style="list-style-type: none"> - Availability updates every 5 minutes or on check-in/check-out. - Students can book up to 3 days in advance; staff up to 14 days. - Overdue returns trigger automatic alerts and temporary booking restrictions. - "High demand" periods are highlighted (e.g., lunch breaks, evenings).