

# 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**Replace outdated or damaged equipment with modern, safe alternatives.**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"> <li>1. System shows list/map of facilities and equipment with status.</li> <li>2. User filters by type, availability, or location.</li> <li>3. System retrieves live data: available units, booking slots, wait times.</li> <li>4. System displays details, e.g., "Basketballs: 8 available, Gym A: free until 3 PM."</li> <li>5. User can reserve equipment or book a slot directly.</li> </ol> |
| Alternative Streams | <ul style="list-style-type: none"> <li>- If unavailable, system suggests alternatives or next available slots.</li> <li>- If data is offline, system shows cached schedule with a disclaimer.</li> </ul>  |
| Business Rules      | <ul style="list-style-type: none"> <li>- Availability updates every 5 minutes or on check-in/check-out.</li> <li>- Students can book up to 3 days in advance; staff up to 14 days.</li> <li>- Overdue returns trigger automatic alerts and temporary booking restrictions.</li> <li>- "High demand" periods are highlighted (e.g., lunch breaks, evenings).</li> </ul>  |