THE NEW COLLEGE

(AUTONOMOUS)

CHENNAI — 600 014.

P.G. DEPARTMENT OF COMPUTER SCIENCE
(Shift — I)

FINAL YEAR PROJECT

(ABSTRACT)

SPORTIFY ZONE

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SPORTIFY ZONE

ABSTRACTION DESCRIPTION:

The E-commerce Website for Sports Shop is developed using the **MERN Stack (MongoDB, React.js, Node.js with Strapi)** to provide a fast, responsive, and dynamic platform for purchasing sports accessories online. Strapi, a headless CMS, is used as the backend to simplify API creation, product management, and secure data handling. The system allows customers to browse sports categories, check product details, view real-time stock, add items to cart, and complete secure online payments. It offers smooth navigation, user authentication, quick loading, and an interactive UI powered by React.

The project includes separate modules for both admin and customers. Admin can manage sports products, update stock, handle orders, and monitor sales through Strapi's intuitive dashboard, while customers can create accounts, browse items, order products, and track delivery status. By automating product management and simplifying online shopping, the system improves business reach and reduces manual work for sports stores.

PROBLEM STATEMENT:

Traditional sports shops depend on in-person visits, limited product visibility, and manual billing, leading to inconvenience and time consumption for customers. Manual stock handling also creates errors and reduces sales opportunities. A modern digital platform is needed to display sports products online, automate inventory updates, handle orders efficiently, and maintain complete sales and order records without paperwork.

MAIN FEATURES:

1. Product Catalog Management:

Admin can add, edit, and delete sports products. Categorized by items (Football, Cricket, Badminton, Fitness, Shoes, Jerseys, etc.). Product details include price, weight/size, availability, and images.

2. Online Order & Payment:

Customers can add items to cart and place orders online. Supports multiple payment methods (UPI, Net Banking, COD). MERN architecture ensures fast, secure data processing.

MODULES INVOLVED ARE:

1. Admin Login & Dashboard

2. Customer Registration & Login

3. Product Catalog & Searching

4. Cart Management & Checkout

5. Payment Gateway Integration

6. Stock Auto-Update after Purchase

HARDWARE REQUIREMENT:

1. Processor: Intel Core i5

2. RAM: 16GB

3. Keyboard: Standard Keyboard

4. Hard Disk: 16GB or above

SOFTWARE REQUIREMENT:

1. Front-end: React.js, HTML, CSS, JavaScript

2. Back-end: Node.js, Strapi

3. Database: MongoDB / MySQL