SPORTS SPHERE WEB APP

Synopsis of
Project III

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PROJECT TITLE

Sports Sphere Web App

INTRODUCTION

Introducing the "Sports Sphere Web App," a cutting-edge e-commerce platform dedicated exclusively to the realm of sports. Tailored for enthusiasts and athletes alike, our platform aims to redefine the online shopping experience within the sports category. Offering a curated selection of high-quality sports gear, apparel, and accessories, we strive to become the go-to destination for sports enthusiasts seeking top-notch products.

PROBLEM STATEMENT

Existing e-commerce websites lack a focused approach, making it cumbersome for users to find and purchase sports-specific products. The need for a dedicated "Sports Sphere Web App" arises from the current void in the market, aiming to provide a comprehensive solution for sports enthusiasts to easily explore and acquire high-quality sports gear and equipment.

PROPOSED SOLUTION

The "Sports Sphere Web App" emerges as the solution to the existing challenges in sports e-commerce. By offering a specialized platform, users can effortlessly discover and purchase sports-related products. Our app's intuitive interface ensures a seamless shopping experience, addressing the current lack of dedicated spaces for sports enthusiasts. With curated selections and easy navigation, we aim to simplify the process of finding and acquiring quality sports gear.

AIM AND OBJECTIVES

Develop and demonstrate the "Sports Sphere Web App" with a comprehensive project demo. Establish a robust project setup, including server configuration and MongoDB setup for seamless data management. Implement secure user authentication and registration APIs with password hashing for enhanced security. Create an intuitive and responsive user interface with a navigation menu, prioritizing an optimal user experience.

OBJECTIVES

- To create a responsive and user-friendly React-based front-end with a navigation menu.
- To set up and configure the project, including the server and MongoDB.
- To develop user authentication and registration APIs with password hashing.
- To integrate user and admin dashboards for effective management.
- To establish robust APIs for managing categories, products, and user-related actions, including CRUD operations.
- To ensure successful deployment, making the "Sports Sphere Web App" accessible to a wider audience.
- To integrate payment gateway functionality for smooth and secure transactions.

SCOPE

The scope of the "Sports Sphere Web App" encompasses the creation of a dedicated e-commerce platform exclusively tailored to the sports category. The project includes the development of a user-friendly interface, secure authentication systems, and comprehensive dashboards for both users and administrators. Additionally, the scope extends to the integration of essential features such as category and product management, and a seamless payment gateway. The deployment phase aims to make the platform accessible to a broad audience, solidifying its position as a go-to destination for sports enthusiasts seeking specialized and high-quality products.

MODULES AND ARCHITECTURE DESIGN WITH A DIAGRAMMATIC APPROACH

MODULES

Admin Module:
- Dashboard
- Customer
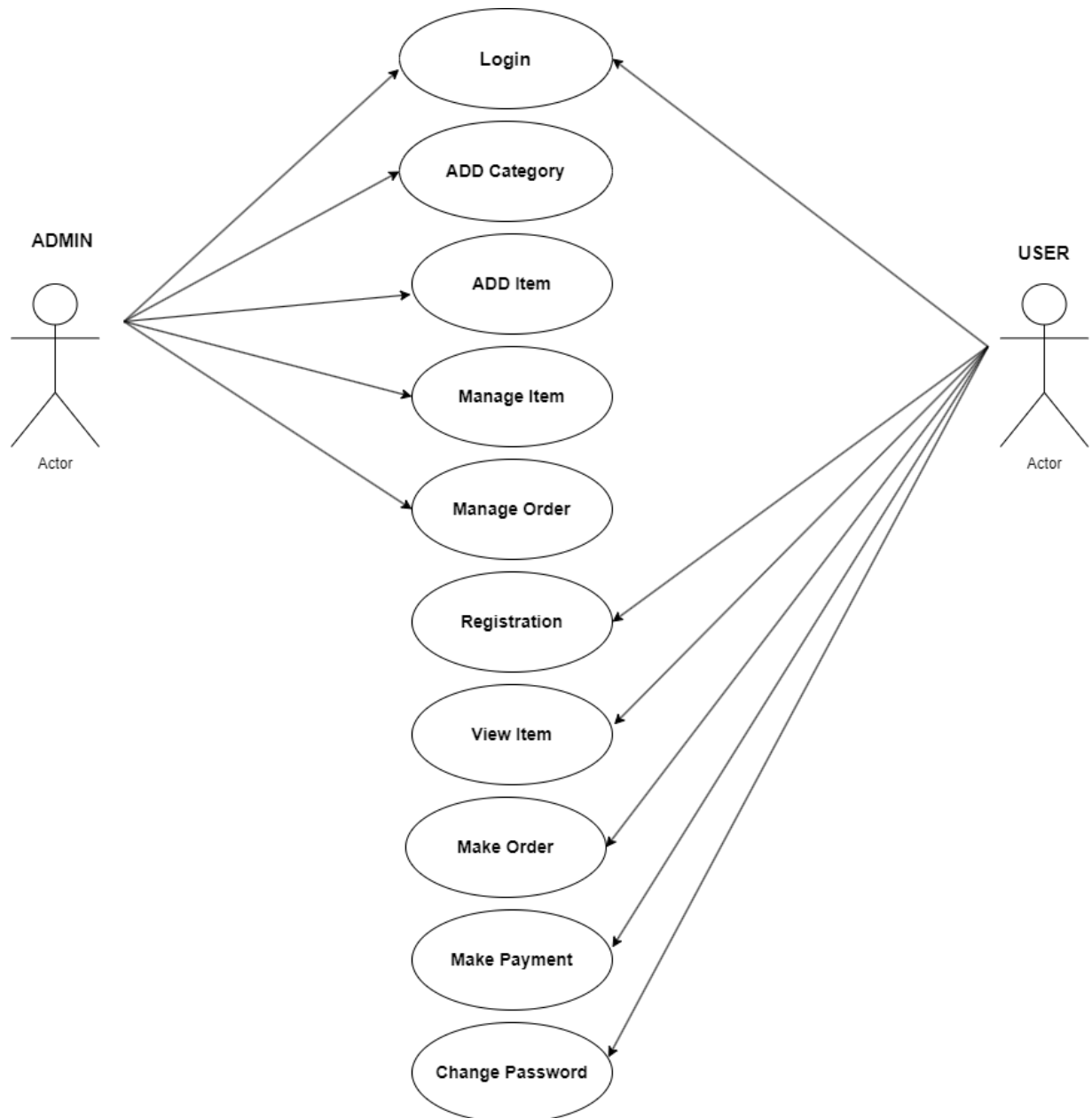- Monitoring and Listings
- Payment Detail

Customer Module:
- Customer Registration
- Customer Authentication
- Search Products
- Filters products
- Purchase Products

Payment Module:
- View Payment listing

USECASE DIAGRAM

SOFTWARE AND HARDWARE REQUIREMENT

HARDWARE REQUIREMENT

     a.   Processor – Intel I5 2.6 GHz or More
     b.   RAM – 8GB
     c.   Hard Disk – 100 GB

SOFTWARE REQUIREMENT

     a.   Operating System – Windows 11
     b.   Front-end – HTML, Tailwind CSS, JavaScript, React JS framework.
     c.   Back-end – NodeJS
     d.   Database and tool – MongoDB
     e.   Server – Express JS server
     f.   Version Control – Git & GitHuB
     g.   IDE – VS Code

REFERENCES

- Abdullah Saleh Alqahtani, Robert Goodwin - E-commerce Smartphone Application
- Ronald Gomeseria - Good Mobile App Based eCommerce Application
- Mogalraj Kanishka, Yashwanth Rayabarapu, Gudduri Bharath - E-COMMERCE APPLICATION
- Aditya D. Dhayfule, Avinash S. Gund, Harshad A. Ghongade, Shubham A. Waghmare, Prof Mrs. S. S. Bhosal - Review of Case Study of E-Commerce App Development
- Cong Mu - Application of User Research in E-commerce App Design