



UNIVERSITI  
TEKNOLOGI  
PETRONAS

**OOP PROJECT REPORT**

**TFB1033: OBJECT ORIENTED PROGRAMMING  
MAY 2024 SEMESTER**

**LECTURER: DR. NOORDIN ZAKARIA**

**SPORT STORE By Power Rangers**

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YouTube Link : <https://youtu.be/DXuN50rld9g>

## **PROJECT DESCRIPTION**

In the age of digitalization, companies are constantly seeking innovative and creative methods to enhance their operations and establish stronger connections with their customers. This trend is evident across various industries, including the sportswear sector. The sportswear industry, known for its dynamic nature and high competition, demands efficient management systems to ensure smooth operations and exceptional customer experiences.

Our project aims to address these needs by developing a comprehensive Sport Store Management System. This software program is designed to optimize the overall operations of a sports store, making them more efficient and effective. By integrating advanced technology and user-friendly features, the Sport Store Management System will streamline various aspects of store management, from inventory control and sales tracking to customer relationship management and reporting.

The implementation of such a system will not only enhance the operational efficiency of the store but also improve customer satisfaction by providing a seamless and personalized shopping experience. With real-time data and analytics, store managers will be able to make informed decisions, anticipate market trends, and respond quickly to customer needs.

In essence, our Sport Store Management System represents a significant step forward in the digital transformation of the sportswear sector, providing a robust platform that supports both the day-to-day operations and long-term strategic goals of sports stores.

## **OBJECTIVES**

### **1) Optimize Operational Efficiency:**

- Develop a comprehensive system that automates and streamlines inventory control, sales tracking, and reporting.
- Reduce manual processes and minimize errors in store management tasks.

### **2) Enhance Customer Satisfaction:**

- Implement features that provide a seamless and personalized shopping experience for customers.
- Ensure quick and accurate response to customer needs through efficient management of customer relationship data.

### **3) Enable Real-Time Data and Analytics:**

- Provide store managers with access to real-time data and analytics to make informed decisions.
- Utilize data insights to anticipate market trends and adapt quickly to changing customer preferences.

### **4) Support Strategic Decision-Making:**

- Facilitate long-term strategic planning by providing detailed and comprehensive reporting tools.
- Enable store managers to identify and capitalize on opportunities for growth and improvement.

**5) Integrate Advanced Technology:**

- Utilize cutting-edge technology to enhance the functionality and usability of the management system.
- Ensure the system is user-friendly and accessible to all levels of store management staff.

**6) Improve Inventory Management:**

- Implement advanced inventory tracking mechanisms to ensure optimal stock levels.
- Reduce stockouts and overstock situations by providing accurate inventory forecasts.

## **FEATURES**

### 1) User Management and Security

- **Role-Based Access Control:** Assign different access levels based on user roles to ensure data security.
- **Audit Trails:** Track and log changes made within the system for accountability and security.
- **Data Backup and Recovery:** Implement regular data backups and recovery options to protect against data loss.

### 2) Real-Time Data and Analytics

- **Dashboard:** Provide an overview of key metrics such as sales, inventory levels, and customer activity.
- **Reports and Analytics:** Generate detailed reports on sales, inventory turnover, and customer behavior.
- **Trend Analysis:** Analyze market trends and customer preferences to make data-driven decisions.

### 3) Customer Relationship Management (CRM)


- **Customer Profiles:** Maintain detailed profiles including purchase history, preferences, and contact information.
- **Personalized Recommendations:** Suggest products based on past purchases and browsing behavior.
- **Customer Feedback and Support:** Collect and manage customer feedback and support

INTERFACE


EZ SPORT STORE

2:18:03:amFriday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY:   
PURCHASE: ☐




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY:   
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY:   
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY:   
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike socks 2pcs  
PRICE: RM78.00  
QUANTITY:   
PURCHASE: ☐




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY:   
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY:   
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY:   
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY:   
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY:   
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY:   
PURCHASE: ☐


Tax0.00Sub Total0.00Total0.0

TotalResetExit


EZ SPORT STORE

12:38:09:amFriday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY:   
PURCHASE: ☒




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY:   
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY:   
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY:   
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY:   
PURCHASE: ☐




NAME: Nike socks 2pcs  
PRICE: RM78.00  
QUANTITY:   
PURCHASE: ☐




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY:   
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY:   
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY:   
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY:   
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY:   
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY:   
PURCHASE: ☐


Tax3.0Sub Total238.0Total241.0

TotalResetExit


\*\*\*\*\*EZ Sport Store\*\*\*\*\*  
Time: 12:38:06:amDate: Friday, 26-07-2024  
Purchase Id: 45028  
\*\*\*\*\*  
Item Name:Price(\$)  
1. Nike Pitch FootballRM238

EZ SPORT STORE
12:38:37:am
Friday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY: 2  
PURCHASE: ☒




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike socks 2pcs  
PRICE: RM78.00  
QUANTITY: 1  
PURCHASE: ☒




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY: 0  
PURCHASE: ☐

Tax 3.0
Sub Total 316.0
Total 319.0
Total
Reset
Exit

\*\*\*\*\*Ez Sport Store\*\*\*\*\*

Time: 12:38:06:amDate: Friday, 26-07-2024

Purchase Id: 45028

\*\*\*\*\*


Item Name: Price(\$)

1. Nike Pitch Football RM238


2. Nike socks 2pcs RM78.0

EZ SPORT STORE
12:38:54:am
Friday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY: 2  
PURCHASE: ☒




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike socks 2pcs  
PRICE: RM78.00  
QUANTITY: 1  
PURCHASE: ☒




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY: 1  
PURCHASE: ☒

Tax 3.0
Sub Total 815.0
Total 818.0
Total
Reset
Exit

\*\*\*\*\*Ez Sport Store\*\*\*\*\*

Time: 12:38:06:amDate: Friday, 26-07-2024

Purchase Id: 45028

\*\*\*\*\*

Item Name: Price(\$)

1. Nike Pitch Football RM238


2. Nike socks 2pcs RM78.0

3. Nike Downshifter RM499


7

EZ SPORT STORE
12:39:38:am
Friday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY: 2  
PURCHASE: ☒




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY: 0  
PURCHASE: ☐



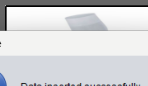
NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY: 1  
PURCHASE: ☒

Tax
3.0
Sub Total
815.0
Total
818.0

Total
Reset
Exit

EZ Sport Store
Time: 12:38:06:amDate: Friday, 26-07-2024
Purchase Id: 45028


Item Name:
Price(\$
1. Nike Pitch Football
RM238
2. Nike socks 2pcs
RM78.0
3. Nike Downshifter
RM499

Tax: 3.0
Sub Total: 815.0
Total: 818.0


Please Come Again

EZ SPORT STORE
12:40:16:am
Friday, 26-07-2024


ALL ITEMS




NAME: Maestro futsal ball  
PRICE: RM109.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike White Ball  
PRICE: RM125.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike Pitch Football  
PRICE: RM119.00  
QUANTITY: 2  
PURCHASE: ☒




NAME: Mercurial Glove v1  
PRICE: RM89.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Academy glove  
PRICE: RM100.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike light socks 1pc  
PRICE: RM39.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Basic Socks 2pcs  
PRICE: RM69.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Puma Casual socks  
PRICE: RM19.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Nike socks 2pcs  
PRICE: RM78.00  
QUANTITY: 1  
PURCHASE: ☒




NAME: ALX Glove  
PRICE: Rm35.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: Asics Running  
PRICE: RM699.00  
QUANTITY: 0  
PURCHASE: ☐




NAME: AL Men Running  
PRICE: RM149.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Pegasus men  
PRICE: RM589.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Adidas Adizero Men  
PRICE: RM239.00  
QUANTITY: 0  
PURCHASE: ☐



NAME: Nike Downshifter  
PRICE: RM499  
QUANTITY: 1  
PURCHASE: ☒

Tax
3.0
Sub Total
815.0
Total
818.0

Total
Reset
Exit

EZ Sport Store
Time: 12:38:06:amDate: Friday, 26-07-2024
Purchase Id: 45028

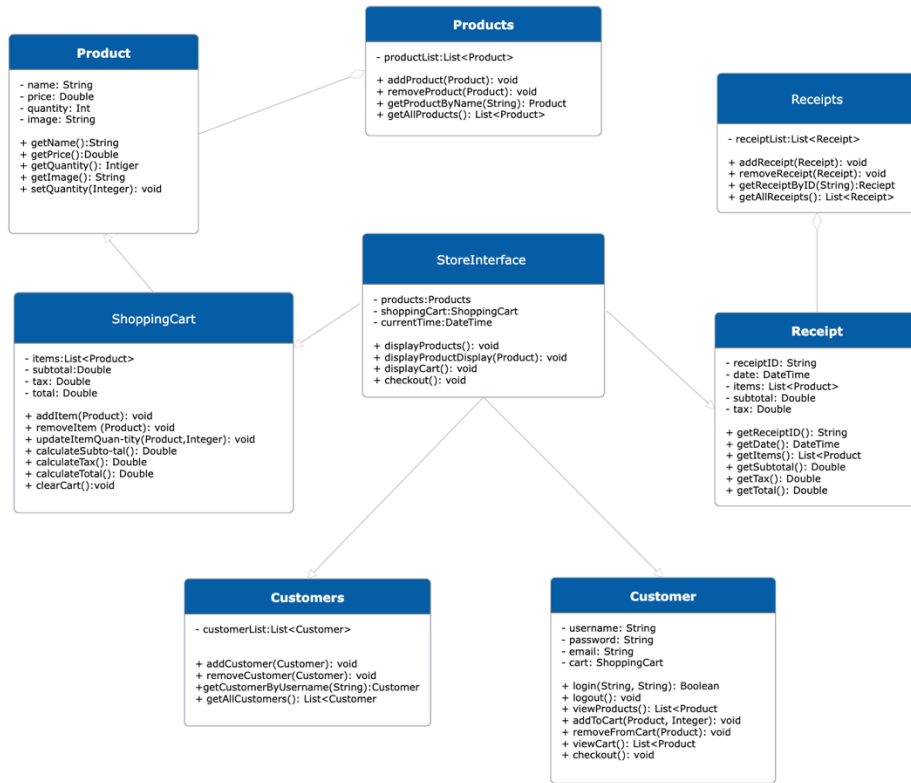
Item Name:
Price(\$
1. Nike Pitch Football
RM238
2. Nike socks 2pcs
RM78.0
3. Nike Downshifter
RM499

Tax: 3.0
Sub Total: 815.0
Total: 818.0

Please Come Again



# UML



# SQL

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

SCHEMAS

- ▼ sportstore
  - ▼ tables
    - purchase
  - ▼ views
  - ▼ Stored Procedures
  - ▼ Functions
- ▼ sys

Query 1 sportstore - Schema purchase - Table purchase

1 • SELECT \* FROM sportstore.purchase

Limit to 1000 rows

Result Grid

purchase_id	purchase_date	total_amount
0	2024-07-25	450
60242	2024-07-25	640
85482	2024-07-25	819
121603	2024-07-25	820
12258	2024-07-25	820

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas

Information

No object selected

purchase 3 purchase 5 x

Apply Revert Context Help Skip steps

Output

Action Output

#	Time	Action	Message	Duration / Repch
2	01:35:34	Apply changes to purchase	Changes applied	
3	01:35:50	SELECT * FROM sportstore.purchase LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
4	01:42:24	SELECT * FROM sportstore.purchase LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
5	01:44:10	SELECT * FROM sportstore.purchase LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
6	02:09:22	SELECT * FROM sportstore.purchase LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
7	02:16:26	SELECT * FROM sportstore.purchase LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session