

**THE PRESENTATION
ON
"INVENTORY MANAGEMENT
SYSTEM"
by**

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OUTLINE

- Introduction
- Objectives
- System architecture
- Technology platform overview
- Modules
- Implementation details and snapshot
- Conclusion and future work

INTRODUCTION

- What is Inventory?

In physical world, inventory is a storage space where all goods are stored for later purpose like selling and retailing.

- What is inventory management system?

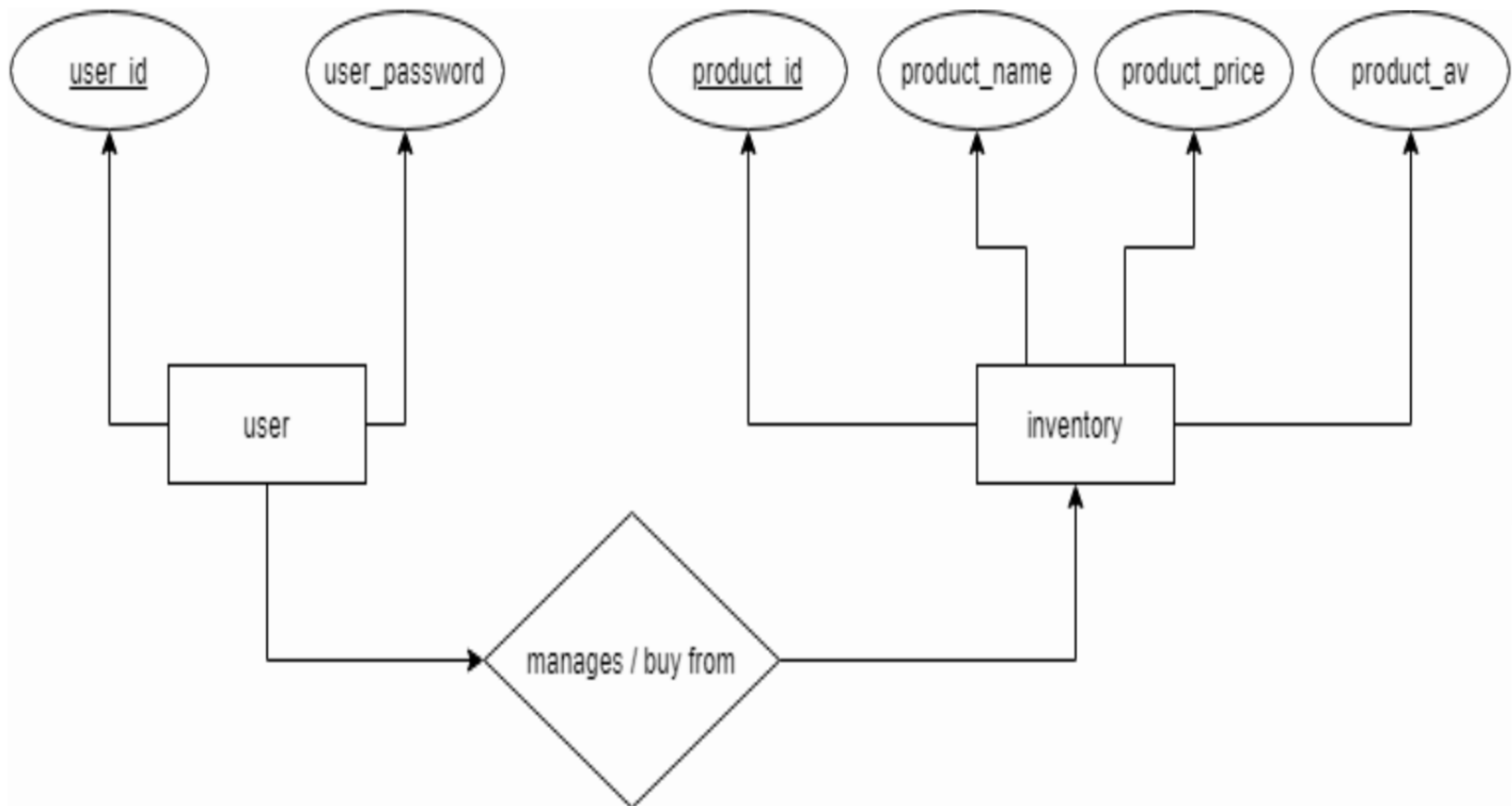
A piece of software used to manage the current goods in inventory as well as provide an interface to buy them.

OBJECTIVES

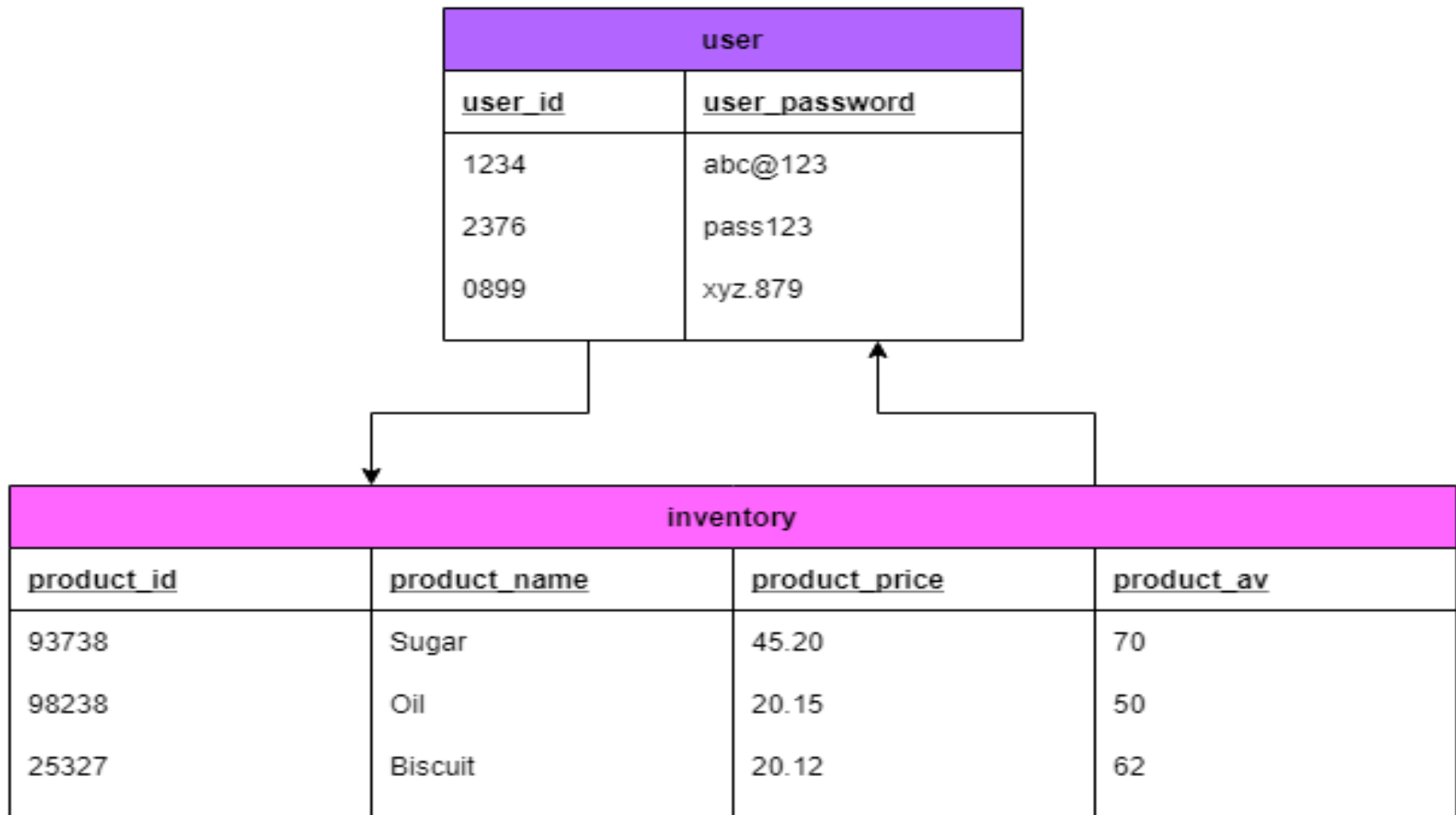
- For the continues supply of the products as well as to maintaining the storage so inventory should not suffer at the time of customer demand.
- To maintain the enough quantity of products.
- To keep stock such way that not overstocking and understocking happens.
- To maintain a systematic records of inventory.

SYSTEM ARCHITECTURE

- ER Diagram of inventory management system :



- Relation model of inventory management system:



TECHNOLOGY PLATFORM

- Hardware required :
 - Desktop or laptop computer
 - Min. 2 GB RAM
 - Min. 1.0GB available on all logical disks
- Software required :
 - Windows, Linux or MacOS
 - Oracle 10g Database
 - Java Development Kit (JDK) and Java Runtime Environment (JRE)
 - JDBC database Drivers

MODULES

- The component of Inventory management system are divided in following modules
 - **LinkedList**
 - Storing data during runtime on memory
 - **Common**
 - Generalizing common methods of Admin and User module
 - **Admin**
 - Creating an interface for administrator role
 - **User**
 - Creating an interface for naïve user role
 - **Inventory**
 - User Interface to perform Admin level and User level operations

IMPLEMENTATION AND SNAPSHOT

```
C:\Windows\system32\cmd.exe
WELCOME TO INVENTORY MANAGEMENT SYSTEM

1. Admin 2. User:
1
Login to system to continue:
User id: 1954012
Password: 1954012
Welcome, Akash Mahajan. You're logged in as Admin

[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout
1
ID          Product Name      Price (in Rs.)      In Stock
-----
27272       Sugar                45.23               100
28232       Oil                  30.8                38
58434       Biscuit              20.0                58
38434       Jaggery              56.2                25
40000       Soap                 25.2                46
16723       Ittar                60.2                34
[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout
2
Enter product ID: 45672
Enter product name: Almonds
Enter product price (Rs.): 43.5
Enter product current stock: 67
1 product inserted
[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout
```

Screenshot 1

ID	Product Name	Price (in Rs.)	In Stock
27272	Sugar	45.23	100
28232	Oil	30.8	38
58434	Biscuit	20.0	58
38434	Jaggery	56.2	25
40000	Soap	25.2	46
16723	Ittar	60.2	34
45672	Almonds	43.5	67

[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout

3

Enter product ID: 28232

Enter number to increse by: 12

28232's availibility incremented by 12

[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout

1

ID	Product Name	Price (in Rs.)	In Stock
27272	Sugar	45.23	100
28232	Oil	30.8	50
58434	Biscuit	20.0	58
38434	Jaggery	56.2	25
40000	Soap	25.2	46
16723	Ittar	60.2	34
45672	Almonds	43.5	67

[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout

4

Screenshot 2

```
Enter product ID: 45672
Enter number to decrease by: 7
45672's availability decremented by 7
[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout
1
ID          Product Name      Price (in Rs.)      In Stock
-----
27272       Sugar                45.23               100
28232       Oil                  30.8                50
58434       Biscuit              20.0                58
38434       Jaggery              56.2                25
40000       Soap                 25.2                46
16723       Ittar                60.2                34
45672       Almonds              43.5                60
[1] View products [2] Add Product [3] Increase stock [4] Decrease stock [5] Logout
5
Logging out...
Thank you Akash Mahajan, Visit again!
Press any key to continue . . .
```

Screenshot 3

CONCLUSION AND FUTURE WORK

- Conclusion

- With the help of Oracle technologies like Database and Java platform, we can implement a fully functional inventory management system.

- Future Work

- We can integrate GUI features in the following increments in software. We can also simplify the database interaction through Java program.

Thank You