

Video Game Store Management System

Muhammad Abdullah Rashid

2025-CS-449

Section C

Contents

1. Project Introduction

- Project Title
- Short Details

2. Functional Requirements

- 2.1 Admin User
- 2.2 Employee User

3. Wireframes

- 3.1 Main Menu (Login Screen)
- 3.2 Admin Menu (After Login)
- 3.3 Employee Menu (After Login)
- 3.4 Add New Game Screen (Admin)
- 3.5 Sell a Game Screen (Employee)
- 3.6 Process Trade-In Screen (Employee)
- 3.7 View All Games Screen
(Admin/Employee)

1. Project Introduction

Project Title: Video Game Store Management System

Short Details: This project is a console application designed to manage the daily operations of a small video game store. It will automate and simplify tasks for the store staff, such as managing inventory and processing transactions.

The system will have two distinct types of users: an **Admin** and an **Employee**.

- The **Admin** is responsible for managing the store's complete game inventory. This includes adding new game titles, updating game details (like price or platform), and deleting games from the system.
- The **Employee** acts as the store cashier. This user will handle the sales process, manage customer trade-ins, search for games, and track their daily sales.

2. Functional Requirements

2.1 Admin User

- Can log in to the system with a unique password.
- Can add a new game to the store's inventory (e.g., add Title, Platform, Genre, Price, Stock).
- Can delete a game from the inventory.
- Can update the details of an existing game (e.g., update price or stock quantity).
- Can search for any game in the inventory by title or platform.
- Can view a list of all games currently in stock.
- Can view the complete sales and trade-in history of the store.

2.2 Employee User

- Can log in to the system with a unique password.
- Can sell a game to a customer (which reduces the game's stock).

- Can process a customer trade-in (which adds to the game's stock, possibly as 'Used').
- Can search for a game to check its availability, price, and platform.
- Can view all games sorted by Platform (e.g., PS5, Xbox, Switch, PC).
- Can view all games sorted by price (low to high).
- Can view only the sales they made today.

3. Wireframes

3.1 Main Menu (Login Screen):

WELCOME TO THE GAME STORE

Please select your role:

1. Login as Admin
2. Login as Employee
3. Exit

Enter your choice (1-3): _

3.2 Admin Menu (After Login):

ADMIN DASHBOARD

1. Add New Game
2. Delete Game
3. Update Game Details
4. Search for a Game
5. View All Games (Inventory)
6. View Full Sales History
7. Logout

Enter your choice (1-7): _

3.3 Employee Menu (After Login):

EMPLOYEE DASHBOARD

1. Sell a Game
2. Process Customer Trade-In
3. Search for a Game
4. View All Games (by Platform)
5. View All Games (by Price: Low-High)
6. View My Daily Sales

7. Logout

Enter your choice (1-7): _

3.4 Add New Game Screen (Admin):

ADD NEW GAME

Enter Game Title: _____

Enter Game Platform (PS5/Xbox/Switch/PC): _____

Enter Game Genre: _____

Enter Game Price: _____

Enter Game Stock (Quantity): _____

Game "[Game Title]" added successfully!

Press any key to return to menu...

3.5 Sell a Game Screen (Employee):

SELL A GAME

Enter Game Title to sell: _

Book Found: [Game Title]

Platform: [Game Platform]

Price: [Game Price]

Stock: [Game Stock]

Enter Quantity to sell: _____

Sale successful! Total Price: [Total]

Press any key to return to menu...

3.6 Process Trade-In Screen (Employee):

PROCESS CUSTOMER TRADE-IN

Enter Game Title: _____

Enter Game Platform: _____

Stock Found: [Game Stock] (New/Used)

Enter Trade-In Value (Price): _____

Enter Quantity to add to stock: _____

Trade-in successful! Stock for "[Game Title]"
updated.

Press any key to return to menu...

3.7 View All Games Screen (Admin/Employee):

----- ALL GAMES IN INVENTORY -----

Title	Platform	Genre	Price	Stock	
-------	----------	-------	-------	-------	--

Game Title 1	PS5	RPG	59.99	15	
--------------	-----	-----	-------	----	--

Game Title 2	Switch	Platform	49.99	10	
--------------	--------	----------	-------	----	--

Game Title 3	PC	Strategy	39.99	25	
--------------	----	----------	-------	----	--

Press any key to return to menu...