



# **MIT Art, Design and Technology University**

## **MIT School of Computing, Pune**

**Department of Information Technology**

### **Lab Manual**

**Practical - CPAD**

**Class - T.Y. (SEM-VI), SMAD**

**Batch - SMAD**

**Name of the Student**

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**Assignment No 2: Project Assignment based on Unit-III, IV and V****Project-II**

## Project Title: GameZone – React Native E-Commerce App for Gamers



### Project Statement:

GameZone is a mobile-first e-commerce application built with React Native that serves as a one-stop platform for gamers to browse, explore, and purchase the latest video games. Designed with an engaging and intuitive UI, GameZone offers a smooth navigation experience, dynamic product listings, a personalized profile section, and robust cart management—all optimized for mobile devices.



### Objective:

To develop a fully functional mobile application using React Native that supports:

- Multi-screen navigation,
- Product exploration and purchase,
- Cart and profile management,
- Responsive design,
- State persistence and management using Context API.



### Core Features:








### User Authentication:

- Simple login screen with username and password input.
- On successful login, users are redirected to the Home Screen.
- Optional: Guest mode access to browse products without login.

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### Navigation:

Use React Navigation with StackNavigator and TabNavigator to switch between key screens:

-  Home
  -  Product Details
  -  Cart
  -  Profile
  -  Settings
- 

### Core Components & UI:

- Built using React Native core components: View, Text, Image, FlatList, Button, TouchableOpacity, StyleSheet.
  - Flexbox used extensively for responsive and adaptive layouts.
  - Game-themed dark UI with sleek icons and game-related assets.
- 

### Product List and Cart:

- Home Screen:
  - Renders game products dynamically using SectionList grouped by categories like "Action", "RPG", "Adventure", etc.
  - Each item displays:
    - Game title
    - Price
    - Thumbnail image
    - "Add to Cart" button

- Cart:
    - Displays list of added games.
    - Shows total price and quantity.
    - Remove/edit quantity functionality.
- 

### **Handling User Interactions:**

- onPress handlers for all touch interactions including:
    - Navigating to Product Details.
    - Adding/removing products from cart.
    - Editing user profile.
    - Logging out.
- 

### **Cart Management:**

- Global state managed using React Context API.
  - Central cart provider to:
    - Add/remove/update items.
    - Persist cart state during navigation.
    - Share state across components (Home, Product, Cart screens).
- 

### **Product Details Screen:**

- Navigated from the Home or Product List.
- Displays:

- Large product image
  - Title, description, price
  - Add to Cart button
  - Optional: Ratings & reviews
- 



### **Responsive Design:**

- Utilizes Flexbox to adapt UI for:
    - Small, medium, and large screen sizes.
    - Portrait and landscape modes.
- 



### **Sectioned Product Rendering:**

- Home Screen uses SectionList:
    - Sections for each game category (e.g., Action, RPG, Strategy).
    - Sticky headers with category titles.
    - Better organization and browsing experience for users.
- 



### **Expected Outcome:**

Students will gain practical experience in:

- React Native and Expo for mobile development.
- Creating a multi-screen mobile app with intuitive navigation.
- Handling touch-based interactions and state transitions.
- Managing global app state and UI consistency using Context API.
- Building a fully working mobile shopping experience tailored to gaming.

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## **Experiment No.1**

### **Problem Statement:** GAMEZONE

### **Objective:**

To develop a fully functional mobile application using React Native that supports:

- Multi-screen navigation,
- Product exploration and purchase,
- Cart and profile management,
- Responsive design,
- State persistence and management using Context API.

### **Theory:**

#### 1. React Native Components

Definition: React Native uses components as building blocks for UI, similar to HTML tags in web development. Components can be built-in (core) or custom.

Syntax (Core Component):

```
import { View, Text, Button } from 'react-native';
```

```
const MyComponent = () => {  
  <View>  
    <Text>Hello GameZone!</Text>  
    <Button title="Press Me" onPress={() => alert("Pressed!")} />  
  </View>  
};
```

#### 2. Navigation (React Navigation)

React Navigation is a library for routing and navigation in React Native apps.

Installation:

```
npm install @react-navigation/native
```

```
npm install react-native-screens react-native-safe-area-context react-native-vector-icons
```

Syntax for NavigationContainer & Stack Navigator:

```
import { NavigationContainer } from '@react-navigation/native';
```

```
import { createStackNavigator } from '@react-navigation/stack';
```

```
const Stack = createStackNavigator();
```

```
export default function App() {
```

```
  return (
```

```
    <NavigationContainer>
```

```
    <Stack.Navigator initialRouteName="Home">
```

```
    <Stack.Screen name="Home" component={HomeScreen} />
```

```
    <Stack.Screen name="Details" component={DetailsScreen} />
```

```
    </Stack.Navigator>
```

```
  </NavigationContainer>
```

```
);
```

```
}
```

Syntax for Bottom Tab Navigator:

```
import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';
```

```
const Tab = createBottomTabNavigator();
```

```
<Tab.Navigator>
```

```
<Tab.Screen name="Home" component={HomeScreen} />
```

```
<Tab.Screen name="Profile" component={ProfileScreen} />
```

```
</Tab.Navigator>;
```

### 3. React Context API

Context provides a way to share state globally.

Create Context:

```
import { createContext, useState } from 'react';
```

```
export const CartContext = createContext();
```

```
export const CartProvider = ({ children }) => {
```

```
  const [cartItems, setCartItems] = useState([]);
```

```
  return (
```

```
    <CartContext.Provider value={{ cartItems, setCartItems }}>
```

```
    {children}
```

```
  </CartContext.Provider>
```

```
);
```

```
};
```

Use Context:

```
import { useContext } from 'react';
import { CartContext } from './CartContext';

const { cartItems, setCartItems } = useContext(CartContext);
```

#### 4. FlatList

Used to render a scrollable list of items.

Syntax:

```
import { FlatList } from 'react-native';
```

```
<FlatList
  data={games}
  keyExtractor={item => item.id}
  renderItem={({ item }) => (
    <View>
      <Text>{item.title}</Text>
    </View>
  )}
/>
```

#### 5. SectionList

Used to display grouped lists with headers.

Syntax:

```
<SectionList
  sections={[
    { title: 'Free Games', data: ['Valorant', 'Fortnite'] },
    { title: 'Paid Games', data: ['Elden Ring', 'Cyberpunk 2077'] },
  ]}
  renderItem={({ item }) => <Text>{item}</Text>}
  renderSectionHeader={({ section: { title } }) => (
    <Text style={{ fontWeight: 'bold' }}>{title}</Text>
  )}
  keyExtractor={(item, index) => item + index}
/>
```

#### 6. useState & useEffect Hooks

useState is used to manage local component state. useEffect is used for side-effects.

Syntax:

```
import React, { useState, useEffect } from 'react';

const Example = () => {
  const [count, setCount] = useState(0);
```



```
useEffect(() => {
  console.log('Component mounted or count changed');
}, [count]);

return <Button title="Add" onPress={() => setCount(count + 1)} />;
};
```

## 7. onPress & Touchable Components

onPress is the event handler for touch interactions.

Syntax:

```
import { TouchableOpacity, Text } from 'react-native';
```

```
<TouchableOpacity onPress={() => alert('Clicked')}>
  <Text>Press Me</Text>
</TouchableOpacity>
```

## 8. StyleSheet and Flexbox

Used for styling components and building responsive layouts.

Syntax:

```
import { StyleSheet } from 'react-native';
```

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
    alignItems: 'center',
    padding: 16,
  },
  text: {
    fontSize: 18,
    color: 'white',
  },
});
```

```
<View style={styles.container}> <Text style={styles.text}>Styled Text</Text> </View>
```

## 9. Image Component

Used to show game thumbnails or avatars.

Syntax:

```
import { Image } from 'react-native';
```

```
<Image
  source={{ uri: 'https://via.placeholder.com/150' }}
  style={{ width: 100, height: 100 }}
/>
```

## 10. AsyncStorage (Optional)

For persistent local storage (e.g., saving cart items).

Install:

```
npm install @react-native-async-storage/async-storage
```

Syntax:

```
import AsyncStorage from '@react-native-async-storage/async-storage';
```

```
const storeData = async (value) => {
  try {
    await AsyncStorage.setItem('@cart_items', JSON.stringify(value));
  } catch (e) {
    // saving error
  }
};
```

## 11. Icons (Ionicons or vector-icons)

Used in Tab Navigator and UI buttons.

Install:

```
npm install react-native-vector-icons
```

Usage:

```
import Ionicons from 'react-native-vector-icons/Ionicons';
```

```
<Ionicons name="cart-outline" size={24} color="#fff" />
```

## 12. Image Linking (Deep Linking / External URL)

To open game links.

Syntax:

```
import { Linking } from 'react-native';
```

```
<TouchableOpacity onPress={() => Linking.openURL(item.link)}>
  <Text>Visit</Text>
</TouchableOpacity>
```

Codes-

1-HOME-

```
import React from 'react';
import { View, Text, FlatList, Image, TouchableOpacity, StyleSheet, ScrollView }
from 'react-native';

const games = [
```

```

{
  id: 1,
  title: 'Cyberpunk 2077',
  description: 'Futuristic open-world RPG.',
  price: '$59.99',
  image: 'https://images.igdb.com/igdb/image/upload/t_cover_big/co7497.webp'
},
{
  id: 2,
  title: 'Elden Ring',
  description: 'Dark fantasy action RPG.',
  price: '$69.99',
  image: 'https://th.bing.com/th/id/R.6eb59976f763b05a21fb206ad4a6ebe2?rik=RJHdVxmdgmwQKg&pid=ImgRaw&r=0'
},
{
  id: 3,
  title: 'FIFA 24',
  description: 'The latest football simulation.',
  price: '$49.99',
  image: 'https://th.bing.com/th/id/OIP.Y7ddiXBTzshmoU41dM03RgHaLH?w=115&h=180&c=7&r=0&o=5&cb=iwc2&dpr=1.1&pid=1.7'
},
{
  id: 4,
  title: 'GTA V',
  description: 'Crime, chaos, and an open world.',
  price: '$29.99',
  image: 'https://th.bing.com/th/id/R.173966c30ba346e61bf8d987d9cbebd2?rik=WRZsCdggRrhNKg&riu=http%3a%2f%2f2.bp.blogspot.com%2f-XR0Rh3ZTni0%2fUKnAtCXxArI%2fAAAAAAAAAH8%2f7vafmzl2Iss%2fs1600%2fgta5poster.jpg&ehk=GHYUtAzuyS%2f%2bCKSBCyICxPgbH0C%2bFbghzjUi5NSq2kg%3d&risl=&pid=ImgRaw&r=0'
},
{
  id: 5,
  title: 'Minecraft',
  description: 'Create and explore your blocky world.',
  price: '$26.95',

```

```

    image: 'https://images.igdb.com/igdb/image/upload/t_cover_big/co8fu6.webp'
  },
  {
    id: 6,
    title: 'Call of Duty: MW2',
    description: 'Fast-paced military shooter.',
    price: '$59.99',
    image: 'https://wallpaperaccess.com/full/2204595.jpg'
  },

  {
    id: 7,
    title: 'Red Dead Redemption 2',
    description: 'Epic wild west adventure.',
    price: '$39.99',
    image: 'https://images.igdb.com/igdb/image/upload/t_cover_big/co1qlf.webp'
  },
  {
    id: 8,
    title: 'The Witcher 3',
    description: 'Monster hunting fantasy RPG.',
    price: '$29.99',
    image:
'https://cdn.mobygames.com/covers/907872-the-witcher-3-wild-hunt-new-quest-fools
-gold-playstation-4-front.jpg'
  },
  {
    id: 9,
    title: 'Valorant',
    description: 'Team-based tactical shooter.',
    price: 'Free',
    image: 'https://images.igdb.com/igdb/image/upload/t_cover_big/co8ok7.webp'
  },
  {
    id: 10,
    title: 'Among Us',
    description: 'Multiplayer betrayal game.',
    price: '$4.99',
    image:
'https://assets.arpost.co/wp-content/uploads/2022/12/28181834/Among-US-VR-game.p
ng'
  }

```

```

    }
  ];

const Home = ({ navigation }) => {
  const renderGame = ({ item }) => (
    <View style={styles.card}>
      <Image source={{ uri: item.image }} style={styles.image} />
      <Text style={styles.gameTitle}>{item.title}</Text>
      <Text style={styles.price}>{item.price}</Text>
      <TouchableOpacity style={styles.button} onPress={() =>
navigation.navigate('Store')}>
        <Text style={styles.buttonText}>View</Text>
      </TouchableOpacity>
    </View>
  );

  return (
    <View style={styles.container}>
      <Text style={styles.heading}>Top Games This Week</Text>
      <FlatList
        data={games}
        renderItem={renderGame}
        keyExtractor={(item) => item.id}
        numColumns={2}
        contentContainerStyle={styles.grid}
      />
    </View>
  );
};

export default Home;

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#121212',
    paddingTop: 40,
    paddingHorizontal: 10,
  },
  heading: {
    fontSize: 24,

```

```
    color: '#fff',
    fontWeight: 'bold',
    marginBottom: 10,
    textAlign: 'center',
  },
  grid: {
    paddingBottom: 80,
  },
  card: {
    backgroundColor: '#1f1f1f',
    borderRadius: 10,
    margin: 8,
    flex: 1,
    alignItems: 'center',
    padding: 10,
  },
  image: {
    width: 120,
    height: 120,
    borderRadius: 8,
  },
  gameTitle: {
    fontSize: 16,
    color: '#fff',
    marginVertical: 5,
  },
  price: {
    color: '#ccc',
    fontSize: 14,
  },
  button: {
    backgroundColor: '#00bfff',
    marginTop: 8,
    paddingVertical: 6,
    paddingHorizontal: 20,
    borderRadius: 5,
  },
  buttonText: {
    color: '#fff',
    fontWeight: 'bold',
```

```

    },
  ));

```

## Profile-

```

import React, { useState } from 'react';
import {
  View,
  Text,
  TextInput,
  Image,
  Button,
  StyleSheet,
  TouchableOpacity,
} from 'react-native';

const Profile = () => {
  const [isEditing, setIsEditing] = useState(false);
  const [name, setName] = useState('John Doe');
  const [email, setEmail] = useState('johndoe@example.com');
  const [avatar, setAvatar] = useState(
    'https://via.placeholder.com/100x100.png?text=Avatar'
  );

  const toggleEdit = () => setIsEditing(!isEditing);

  const handleSave = () => {
    setIsEditing(false);
    // Save to backend or storage
  };

  const changeAvatar = () => {
    // For demo purposes
    setAvatar('https://via.placeholder.com/100x100.png?text=New+Avatar');
  };

  return (
    <View style={styles.container}>
      <Text style={styles.title}>&img alt="User icon" data-bbox="465 882 485 896"/> Your Profile</Text>

```

```

<TouchableOpacity onPress={changeAvatar}>
  <Image source={{ uri: avatar }} style={styles.avatar} />
  <Text style={styles.changeAvatar}><img alt="camera icon" data-bbox="555 108 575 122"/> Tap to change avatar</Text>
</TouchableOpacity>

<View style={styles.infoSection}>
  {isEditing ? (
    <>
      <TextInput
        style={styles.input}
        value={name}
        onChangeText={setName}
        placeholder="Enter Name"
        placeholderTextColor="#999"
      />
      <TextInput
        style={styles.input}
        value={email}
        onChangeText={setEmail}
        placeholder="Enter Email"
        placeholderTextColor="#999"
        keyboardType="email-address"
      />
      <TouchableOpacity style={styles.saveButton} onPress={handleSave}>
        <Text style={styles.saveButtonText}><img alt="save icon" data-bbox="642 582 662 596"/> Save</Text>
      </TouchableOpacity>
    </>
  ) : (
    <>
      <Text style={styles.label}><img alt="person icon" data-bbox="775 690 795 704"/> Name: <Text
style={styles.value}>{name}</Text></Text>
      <Text style={styles.label}><img alt="envelope icon" data-bbox="765 732 785 746"/> Email: <Text
style={styles.value}>{email}</Text></Text>
      <TouchableOpacity style={styles.editButton} onPress={toggleEdit}>
        <Text style={styles.editButtonText}><img alt="pencil icon" data-bbox="638 792 658 806"/> Edit Profile</Text>
      </TouchableOpacity>
    </>
  )}
</View>

<TouchableOpacity style={styles.logoutButton} onPress={() => {}}>

```



```

        <Text style={styles.logoutButtonText}> Logout</Text>
      </TouchableOpacity>
    </View>
  );
};

export default Profile;

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#1a1a1a',
    padding: 20,
    alignItems: 'center',
  },
  title: {
    fontSize: 26,
    color: '#fff',
    fontWeight: 'bold',
    marginBottom: 20,
  },
  avatar: {
    width: 120,
    height: 120,
    borderRadius: 60,
    borderWidth: 3,
    borderColor: '#00bfff',
    marginBottom: 10,
  },
  changeAvatar: {
    color: '#00bfff',
    fontSize: 14,
    textAlign: 'center',
    marginBottom: 20,
  },
  infoSection: {
    width: '100%',
  },
  label: {
    fontSize: 18,

```

```
    color: '#bbb',
    marginBottom: 8,
  },
  value: {
    color: '#fff',
    fontWeight: '600',
  },
  input: {
    backgroundColor: '#2c2c2c',
    color: '#fff',
    padding: 12,
    borderRadius: 8,
    marginBottom: 12,
    fontSize: 16,
  },
  editButton: {
    backgroundColor: '#444',
    padding: 12,
    borderRadius: 8,
    marginTop: 12,
    alignItems: 'center',
  },
  editButtonText: {
    color: '#fff',
    fontSize: 16,
  },
  saveButton: {
    backgroundColor: '#00bfff',
    padding: 12,
    borderRadius: 8,
    marginTop: 12,
    alignItems: 'center',
  },
  saveButtonText: {
    color: '#fff',
    fontWeight: 'bold',
    fontSize: 16,
  },
  logoutButton: {
    marginTop: 40,
```

```

    backgroundColor: '#ff3b3b',
    padding: 12,
    borderRadius: 8,
    width: '100%',
    alignItems: 'center',
  },
  logoutButtonText: {
    color: '#fff',
    fontWeight: 'bold',
    fontSize: 16,
  },
});

```

## Library-

```

import React from 'react';
import { View, Text, FlatList, Image, StyleSheet } from 'react-native';

const purchasedGames = [
  {
    id: '1',
    title: 'God of War',
    image:
      'https://image.api.playstation.com/vulcan/img/rnd/202010/2217/LsaRVLF2IU2L1FNtu9d3MKLq.jpg',
    status: 'Installed',
  },
  {
    id: '2',
    title: 'The Witcher 3',
    image:
      'https://cdn1.epicgames.com/offer/14ee004dadcl42faaaece5a6270fb628/EGS_TheWitcher3WildHuntCompleteEdition_CDPROJEKTRRED_S1_2560x1440-82eb5cf8f725e329d3194920c0c0b64f',
    status: 'Download',
  },
  {
    id: '3',
    title: 'Cyberpunk 2077',

```

```

        image:
'https://cdn1.epicgames.com/offer/77f2b98e2cef40c8a7437518bf420e47/EGS_Cyberpunk
2077_CDPROJEKTRED_S1_03_2560x1440-359e77d3cd0a40aebf3bbc130d14c5c7',
        status: 'Installed',
    },
    {
        id: '4',
        title: 'Minecraft',
        image:
'https://tsel.mm.bing.net/th/id/OIP.MP70R6aZanZbzp4JdwvfFAHaEK?cb=iwc2&rs=1&pid=
ImgDetMain',
        status: 'Download',
    },
];

const Library = () => {
    const renderItem = ({ item }) => (
        <View style={styles.card}>
            <Image source={{ uri: item.image }} style={styles.image} />
            <View style={styles.info}>
                <Text style={styles.title}>{item.title}</Text>
                <Text style={styles.status}>{item.status}</Text>
            </View>
        </View>
    );

    return (
        <View style={styles.container}>
            <Text style={styles.heading}>My Library</Text>
            <FlatList
                data={purchasedGames}
                keyExtractor={(item) => item.id}
                renderItem={renderItem}
                contentContainerStyle={styles.list}
            />
        </View>
    );
};

export default Library;

```

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#121212',
    padding: 16,
  },
  heading: {
    fontSize: 24,
    color: '#fff',
    marginBottom: 20,
    fontWeight: 'bold',
  },
  list: {
    paddingBottom: 40,
  },
  card: {
    flexDirection: 'row',
    backgroundColor: '#1f1f1f',
    borderRadius: 10,
    marginBottom: 15,
    padding: 10,
    alignItems: 'center',
  },
  image: {
    width: 90,
    height: 90,
    borderRadius: 8,
    marginRight: 15,
  },
  info: {
    flex: 1,
  },
  title: {
    fontSize: 18,
    color: '#fff',
    fontWeight: '600',
  },
  status: {
    marginTop: 5,
    fontSize: 14,
  },
});
```

```

    color: '#00bfff',
  },
});

```

## Cart-

```

import React, { useState } from 'react';
import {
  View,
  Text,
  FlatList,
  Image,
  TouchableOpacity,
  StyleSheet,
  Alert,
} from 'react-native';

const initialCartItems = [
  {
    id: '1',
    name: 'God of war',
    price: 59.99,
    quantity: 1,
    image:
      'https://th.bing.com/th/id/OIP.Fk0QjOdT2GOMMPv2_NrWAwHaEK?w=321&h=180&c=7&r=0&o=5&cb=iwc2&dpr=1.1&pid=1.7',
  },
  {
    id: '2',
    name: 'Cod-MW2',
    price: 89.99,
    quantity: 2,
    image:
      'https://images.wallpapersden.com/image/download/call-of-duty-modern-warfare-2-hd-gaming_bWhuZWaUmZqaraWkpJRmbmdlrWZnZWU.jpg',
  },
];

const Cart = () => {
  const [cartItems, setCartItems] = useState(initialCartItems);

```

```

const updateQuantity = (id, delta) => {
  setCartItems((prevItems) =>
    prevItems
      .map((item) =>
        item.id === id
          ? { ...item, quantity: Math.max(1, item.quantity + delta) }
          : item
      )
      .filter((item) => item.quantity > 0)
  );
};

const removeItem = (id) => {
  setCartItems((prevItems) => prevItems.filter((item) => item.id !== id));
};

const getTotal = () =>
  cartItems.reduce((sum, item) => sum + item.price * item.quantity,
0).toFixed(2);

const handleCheckout = () => {
  Alert.alert('Checkout', 'Proceeding to payment...');
  // Implement checkout logic here
};

const renderItem = ({ item }) => (
  <View style={styles.card}>
    <Image source={{ uri: item.image }} style={styles.image} />
    <View style={styles.info}>
      <Text style={styles.name}>{item.name}</Text>
      <Text style={styles.price}>${item.price.toFixed(2)}</Text>
      <View style={styles.quantityContainer}>
        <TouchableOpacity
          style={styles.quantityButton}
          onPress={() => updateQuantity(item.id, -1)}
        >
          <Text style={styles.quantityButtonText}>-</Text>
        </TouchableOpacity>
        <Text style={styles.quantityText}>{item.quantity}</Text>
        <TouchableOpacity
          style={styles.quantityButton}

```

```

        onPress={() => updateQuantity(item.id, 1)}
      >
      <Text style={styles.quantityButtonText}>+</Text>
    </TouchableOpacity>
  </View>
  <TouchableOpacity onPress={() => removeItem(item.id)}>
    <Text style={styles.removeText}>Remove</Text>
  </TouchableOpacity>
</View>
</View>
);

return (
  <View style={styles.container}>
    <Text style={styles.title}>Your Cart</Text>
    <FlatList
      data={cartItems}
      keyExtractor={(item) => item.id}
      renderItem={renderItem}
      contentContainerStyle={styles.list}
      ListEmptyComponent={
        <Text style={styles.empty}>Your cart is
empty.</Text>
      }
    />
    <View style={styles.footer}>
      <Text style={styles.total}>Total: ${getTotal()}</Text>
      <TouchableOpacity style={styles.checkoutButton}
onPress={handleCheckout}>
        <Text style={styles.checkoutButtonText}>Checkout</Text>
      </TouchableOpacity>
    </View>
  </View>
);
};

export default Cart;

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#121212',
    padding: 20,
  },
});

```



```
,
title: {
  fontSize: 24,
  color: '#fff',
  fontWeight: 'bold',
  marginBottom: 10,
},
list: {
  paddingBottom: 20,
},
card: {
  flexDirection: 'row',
  backgroundColor: '#1f1f1f',
  borderRadius: 10,
  marginBottom: 15,
  padding: 10,
  alignItems: 'center',
},
image: {
  width: 80,
  height: 80,
  borderRadius: 8,
  marginRight: 15,
},
info: {
  flex: 1,
},
name: {
  color: '#fff',
  fontSize: 18,
  marginBottom: 4,
},
price: {
  color: '#ccc',
  fontSize: 16,
  marginBottom: 8,
},
quantityContainer: {
  flexDirection: 'row',
  alignItems: 'center',
```

```
    marginBottom: 8,
  },
  quantityButton: {
    backgroundColor: '#333',
    padding: 6,
    borderRadius: 4,
  },
  quantityButtonText: {
    color: '#fff',
    fontSize: 16,
    width: 20,
    textAlign: 'center',
  },
  quantityText: {
    color: '#fff',
    fontSize: 16,
    marginHorizontal: 10,
  },
  removeText: {
    color: '#ff4d4d',
    fontSize: 14,
  },
  footer: {
    borderTopWidth: 1,
    borderTopColor: '#333',
    paddingTop: 10,
    marginTop: 10,
  },
  total: {
    color: '#fff',
    fontSize: 20,
    marginBottom: 10,
  },
  checkoutButton: {
    backgroundColor: '#00bfff',
    paddingVertical: 12,
    borderRadius: 5,
    alignItems: 'center',
  },
  checkoutButtonText: {
```

```

    color: '#fff',
    fontSize: 18,
    fontWeight: 'bold',
  },
  empty: {
    color: '#aaa',
    fontSize: 16,
    textAlign: 'center',
    marginTop: 40,
  },
});

```

## Navbar-

```

import React from 'react';
import { View, Text, TouchableOpacity, StyleSheet } from 'react-native';
import { useNavigation } from '@react-navigation/native';

const Navbar = () => {
  const navigation = useNavigation();

  return (
    <View style={styles.navbar}>
      <TouchableOpacity onPress={() => navigation.navigate('Home')}>
        <Text style={styles.link}>Home</Text>
      </TouchableOpacity>

      <TouchableOpacity onPress={() => navigation.navigate('Store')}>
        <Text style={styles.link}>Store</Text>
      </TouchableOpacity>

      <TouchableOpacity onPress={() => navigation.navigate('Cart')}>
        <Text style={styles.link}>Cart</Text>
      </TouchableOpacity>

      <TouchableOpacity onPress={() => navigation.navigate('Wishlist')}>
        <Text style={styles.link}>Wishlist</Text>
      </TouchableOpacity>

      <TouchableOpacity onPress={() => navigation.navigate('Profile')}>

```

```

        <Text style={styles.link}>Profile</Text>
      </TouchableOpacity>
    </View>
  );
};

export default Navbar;

const styles = StyleSheet.create({
  navbar: {
    flexDirection: 'row',
    justifyContent: 'space-around',
    backgroundColor: '#fff',
    paddingVertical: 12,
    borderTopWidth: 1,
    borderColor: '#ccc',
    position: 'absolute',
    bottom: 0,
    width: '100%',
  },
  link: {
    fontSize: 16,
    color: '#007AFF',
  },
});

```

## Store-

```

import React, { useState } from 'react';
import {
  View,
  Text,
  FlatList,
  Image,
  StyleSheet,
  TouchableOpacity,
  Alert,
  SafeAreaView,
} from 'react-native';

```

```

const games = [
  { id: '1', name: 'Cyber Quest', price: 59.99, image:
'https://tse4.mm.bing.net/th/id/OIP.dFb0RmAREU1g0nuqsFqkSwHaEP?cb=iwc2&rs=1&pid=
ImgDetMain' },
  { id: '2', name: 'Mystic Wars', price: 49.99, image:
'https://play-lh.googleusercontent.com/MrPlMlDNHeq67F-KGWv3tECigunpLHJR7ukZZ12cl
gges7y502Vtw-XSgcyJkEAKec0' },
  { id: '3', name: 'Speed Racer', price: 39.99, image:
'https://www.themoviedb.org/t/p/w600_and_h900_bestv2/fEzdKehjLAF1ypF3ldB2xxfq74b
.jpg' },
  { id: '4', name: 'Zombie Land', price: 29.99, image:
'https://tse1.mm.bing.net/th/id/OIP.OemjKTyvE3UxZEmaic9N5wHaEx?cb=iwc2&rs=1&pid=
ImgDetMain' },
  { id: '5', name: 'Alien Invasion', price: 44.99, image:
'https://cdnb.artstation.com/p/assets/images/images/076/340/637/large/vishal-dha
mu-forest-alien1.jpg?1716786959' },
];

const Store = () => {
  const [cart, setCart] = useState([]);

  const addToCart = (item) => {
    setCart((prevCart) => [...prevCart, item]);
    Alert.alert('🛒 Added to Cart', `${item.name} has been added to your
cart.`);
  };

  const renderItem = ({ item }) => (
    <View style={styles.card}>
      <Image source={{ uri: item.image }} style={styles.image} />
      <Text style={styles.name}>{item.name}</Text>
      <Text style={styles.price}>${item.price.toFixed(2)}</Text>
      <TouchableOpacity style={styles.button} onPress={() => addToCart(item)}>
        <Text style={styles.buttonText}>Add to Cart</Text>
      </TouchableOpacity>
    </View>
  );

  return (
    <SafeAreaView style={styles.container}>
      <View style={styles.header}>
        <Text style={styles.title}>🎮 Game Store</Text>

```

```

    <TouchableOpacity style={styles.cartIcon}>
      <Text style={styles.cartText}><img alt="shopping cart icon" data-bbox="535 85 555 100"/></Text>
      {cart.length > 0 && (
        <View style={styles.cartBadge}>
          <Text style={styles.cartBadgeText}>{cart.length}</Text>
        </View>
      )}
    </TouchableOpacity>
  </View>

  <FlatList
    data={games}
    keyExtractor={(item) => item.id}
    renderItem={renderItem}
    numColumns={2}
    contentContainerStyle={styles.list}
    showsVerticalScrollIndicator={false}
  />
</SafeAreaView>
);
};

export default Store;

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#111',
  },
  header: {
    paddingTop: 20,
    paddingHorizontal: 20,
    paddingBottom: 10,
    backgroundColor: '#1e1e2e',
    flexDirection: 'row',
    justifyContent: 'space-between',
    alignItems: 'center',
  },
  cartIcon: {
    position: 'relative',

```

```
},
cartText: {
  fontSize: 24,
  color: '#fff',
},
cartBadge: {
  position: 'absolute',
  top: -6,
  right: -10,
  backgroundColor: '#ff4757',
  borderRadius: 10,
  paddingHorizontal: 6,
  paddingVertical: 2,
},
cartBadgeText: {
  color: '#fff',
  fontSize: 12,
  fontWeight: 'bold',
},
title: {
  fontSize: 26,
  fontWeight: 'bold',
  color: '#fff',
},
list: {
  paddingHorizontal: 10,
  paddingBottom: 20,
},
card: {
  backgroundColor: '#2f2f3a',
  borderRadius: 15,
  padding: 15,
  margin: 10,
  flex: 1,
  alignItems: 'center',
  shadowColor: '#000',
  shadowOffset: { width: 0, height: 4 },
  shadowOpacity: 0.3,
  shadowRadius: 5,
  elevation: 5,
```

```

    },
    image: {
      width: 110,
      height: 110,
      marginBottom: 12,
      borderRadius: 12,
    },
    name: {
      fontSize: 16,
      fontWeight: '600',
      color: '#fff',
      textAlign: 'center',
      marginBottom: 6,
    },
    price: {
      fontSize: 14,
      color: '#aaa',
      marginBottom: 12,
    },
    button: {
      backgroundColor: '#1e90ff',
      paddingVertical: 8,
      paddingHorizontal: 14,
      borderRadius: 8,
    },
    buttonText: {
      color: '#fff',
      fontWeight: '600',
    },
  });

```

## Whislist-

```

import React, { useState } from 'react';
import {
  View,
  Text,
  FlatList,
  Image,
  StyleSheet,

```



```

    TouchableOpacity,
    Alert,
  } from 'react-native';

const initialWishlist = [
  {
    id: '1',
    name: 'PS5',
    image:
      'https://manofmany.com/_next/image?url=https:%2F%2Fapi.manofmany.com%2Fwp-content%2Fuploads%2F2023%2F12%2FPS5-Pro-Leak.jpg&w=1200&q=75',
  },
  {
    id: '2',
    name: 'Rog Alice',
    image: 'https://rog.asus.com/media/1683756065840.jpg',
  },
  {
    id: '3',
    name: 'ROG Gaming Mouse',
    image:
      'https://www.gaminggearskh.com/Content/Upload/ItemImage/ea69ba0b-19e5-40aa-9b50-ef75ad73da52.jpg',
  },
];

const Wishlist = () => {
  const [wishlist, setWishlist] = useState(initialWishlist);

  const moveToCart = (item) => {
    Alert.alert('Moved to Cart', `${item.name} was moved to your cart.`);
    // Add cart logic here if needed
    removeFromWishlist(item.id);
  };

  const removeFromWishlist = (id) => {
    setWishlist((prev) => prev.filter((item) => item.id !== id));
  };

  const renderItem = ({ item }) => (
    <View style={styles.card}>

```

```

      <Image source={{ uri: item.image }} style={styles.image} />
      <View style={styles.info}>
        <Text style={styles.name}>{item.name}</Text>
        <View style={styles.actions}>
          <TouchableOpacity onPress={() => moveToCart(item)}
style={styles.button}>
            <Text style={styles.buttonText}>Move to Cart</Text>
          </TouchableOpacity>
          <TouchableOpacity onPress={() => removeFromWishlist(item.id)}
style={styles.removeButton}>
            <Text style={styles.removeText}>Remove</Text>
          </TouchableOpacity>
        </View>
      </View>
    </View>
  );

  return (
    <View style={styles.container}>
      <Text style={styles.title}>Wishlist</Text>
      <FlatList
        data={wishlist}
        keyExtractor={(item) => item.id}
        renderItem={renderItem}
        contentContainerStyle={styles.list}
        ListEmptyComponent={<Text style={styles.empty}>Your wishlist is
empty.</Text>}
      />
    </View>
  );
};

export default Wishlist;

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#121212',
    padding: 20,
  },
  title: {

```

```
    fontSize: 24,  
    color: '#fff',  
    fontWeight: 'bold',  
    marginBottom: 10,  
  },  
  list: {  
    paddingBottom: 40,  
  },  
  card: {  
    flexDirection: 'row',  
    backgroundColor: '#1f1f1f',  
    borderRadius: 10,  
    marginBottom: 15,  
    padding: 10,  
    alignItems: 'center',  
  },  
  image: {  
    width: 80,  
    height: 80,  
    borderRadius: 8,  
    marginRight: 15,  
  },  
  info: {  
    flex: 1,  
  },  
  name: {  
    color: '#fff',  
    fontSize: 18,  
    marginBottom: 8,  
  },  
  actions: {  
    flexDirection: 'row',  
    justifyContent: 'flex-start',  
  },  
  button: {  
    backgroundColor: '#00bfff',  
    paddingVertical: 6,  
    paddingHorizontal: 12,  
    borderRadius: 5,  
    marginRight: 10,
```

```

    },
    buttonText: {
      color: '#fff',
    },
    removeButton: {
      paddingVertical: 6,
      paddingHorizontal: 10,
    },
    removeText: {
      color: '#ff4d4d',
    },
    empty: {
      color: '#aaa',
      fontSize: 16,
      textAlign: 'center',
      marginTop: 40,
    },
  },
));

```

## APP.tsx-

```

import React from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';
import Ionicons from 'react-native-vector-icons/Ionicons';

// Screens
import HomeScreen from './screens/Home';
import StoreScreen from './screens/Store';
import LibraryScreen from './screens/Library';
import WishlistScreen from './screens/Wishlist';
import CartScreen from './screens/Cart';
import ProfileScreen from './screens/Profile';

const Tab = createBottomTabNavigator();

const App = () => {
  return (
    <NavigationContainer>
      <Tab.Navigator>

```

```

initialRouteName="Home"

screenOptions=({{ route }: { route: { name: string } }} => ({
  headerShown: false,
  tabBarActiveTintColor: '#66c0f4',
  tabBarInactiveTintColor: '#c7d5e0',
  tabBarStyle: {
    backgroundColor: '#171a21',
    borderTopColor: '#121417',
    paddingBottom: 6,
    paddingTop: 6,
  },
  tabBarIcon: ({ color, size }: { color: string; size: number }) => {
    let iconName: string;

    switch (route.name) {
      case 'Home':
        iconName = 'home-outline';
        break;
      case 'Store':
        iconName = 'pricetags-outline'; // Shopping tag
        break;
      case 'Library':
        iconName = 'albums-outline'; // Game library
        break;
      case 'Wishlist':
        iconName = 'heart-outline';
        break;
      case 'Cart':
        iconName = 'cart-outline';
        break;
      case 'Profile':
        iconName = 'person-circle-outline';
        break;
      default:
        iconName = 'ellipse-outline';
    }

    return <Icons name={iconName} size={size} color={color} />;
  },
})}

```

```
>  
  <Tab.Screen name="Home" component={HomeScreen} />  
  <Tab.Screen name="Store" component={StoreScreen} />  
  <Tab.Screen name="Library" component={LibraryScreen} />  
  <Tab.Screen name="Wishlist" component={WishlistScreen} />  
  <Tab.Screen name="Cart" component={CartScreen} />  
  <Tab.Screen name="Profile" component={ProfileScreen} />  
  </Tab.Navigator>  
</NavigationContainer>  
);  
};  
  
export default App;
```

Output(With flow)-

12:28

## Top Games This Week



Cyberpunk 2077

\$59.99

[View](#)



Elden Ring

\$69.99

[View](#)



FIFA 24

\$49.99

[View](#)



GTA V

\$29.99

[View](#)



Minecraft

\$26.95

[View](#)



Call of Duty: MW2

\$59.99

[View](#)



Home

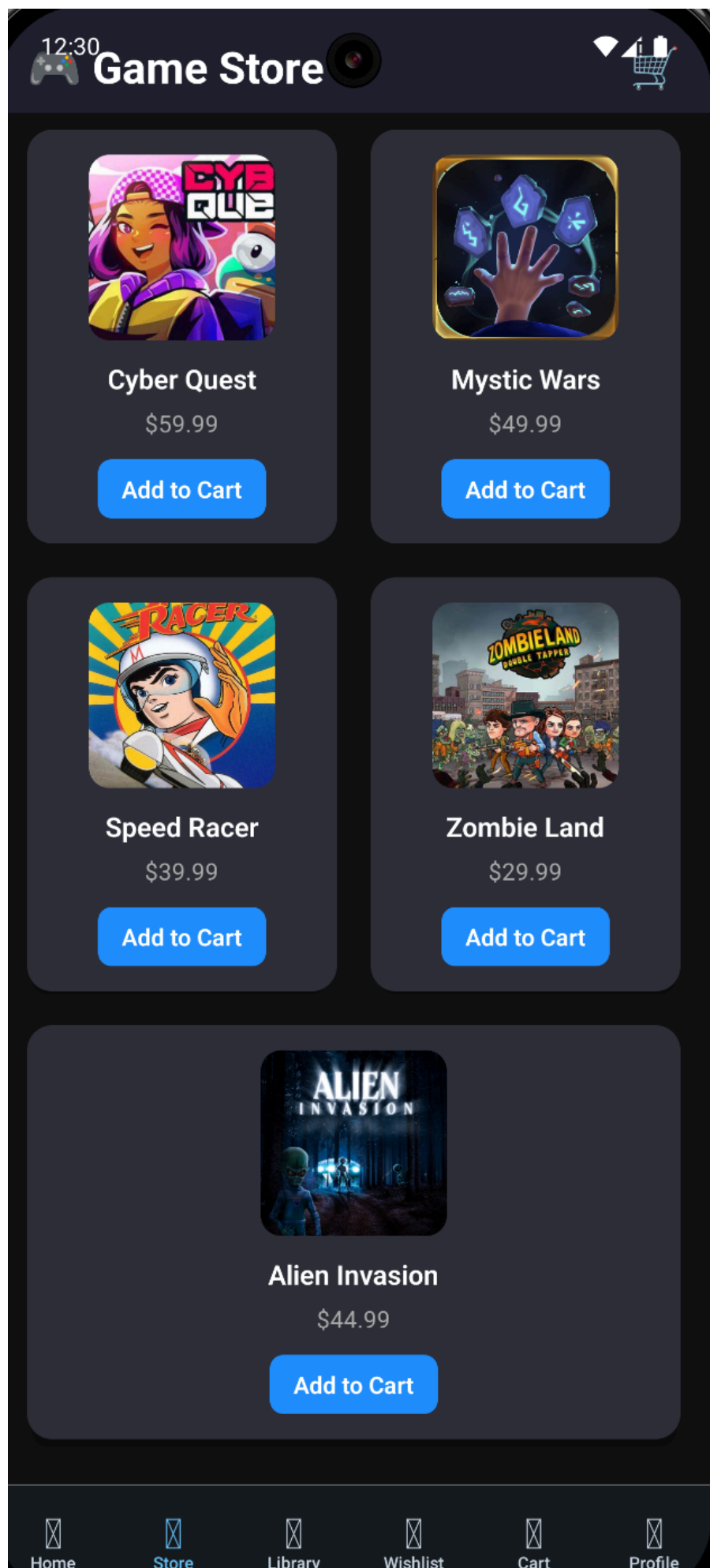
Store

Library

Wishlist

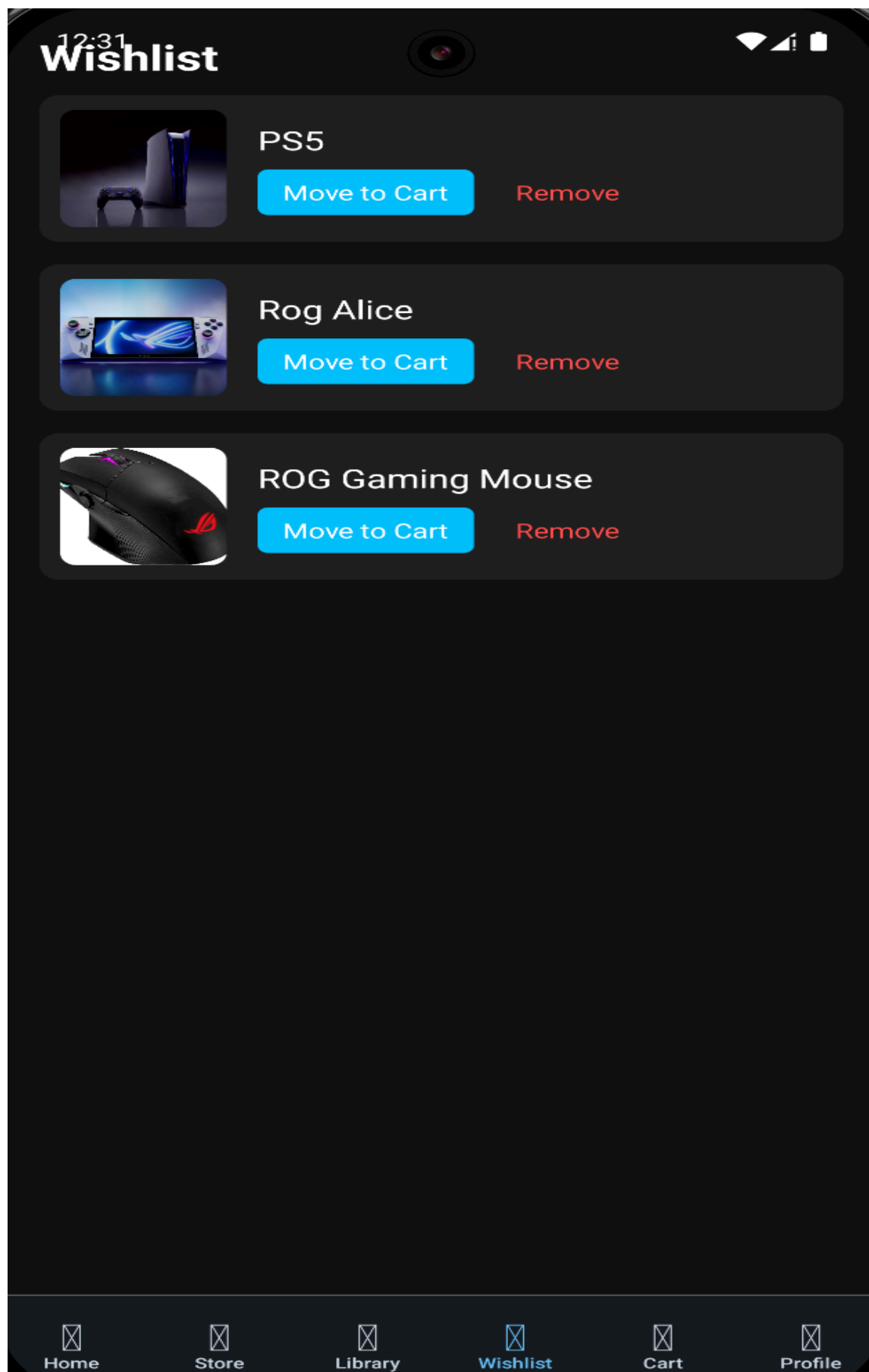
Cart

Profile





12:31  
My Library**God of War**[Installed](#)**The Witcher 3**[Download](#)**Cyberpunk 2077**[Installed](#)**Minecraft**[Download](#)



12:32  
Your Cart

God of war

\$59.99

-

1

+

Remove



Cod-MW2

\$89.99

-

2

+

Remove

Total: \$239.97

Checkout



Home



Store



Library



Wishlist



Cart



Profile

